ELLIOTT ELECTRIC SUPPLY
We Deliver...Lower Cost, Quality Products, & Personal Service
2310 N. Stallings Dr.
Nacogdoches, TX 75964-0
Phone: 9365697941
Fax: 9365604685



BC1 SPRG 1" COND-TO-BEAM FSTNR

COOPER B-LINE/CABLE TRAY

Catalog Number	BC1
Manufacturer	COOPER B-LINE/CABLE TRAY
Description	Conduit to Beam Fastener, Steel, 1/2 in Length, Zinc Plated, 0.05 lb
Weight per unit	0.0500 (lbs/each)
Product Category	Anchors & Fasteners

Features

Material	Cold Rolled High Carbon Steel
Dimensions	1.0000 IN X 1.0000 IN X 1.0000 IN

Dimensions and Weight

Size	1/2 in

Descriptions

Also Known As...	Beam Clamp (Malleable)
Description	SPRG 1" COND-TO-BEAM FSTNR
Features	Eaton offers a wide variety of beam fasteners designed to attach to I-beams to support or suspend equipment.
Long Description	Eaton B-Line series beam fasteners, Beams, Flange, 1" Height, 1" Length, 1" Width, 0.054lbs, Conduit to beam fasteners, .05" Max mount size, 100 lbs load capacity
Product Type	Conduit to BM FS, Thru 1/2" Flange
Special Features	Static Load Capacity 100 Lb
Extra Long Description	BLN BC1 CONDUIT TO BM FS, THRU 1/2"
Similar Brands	Fullman

Manufacturer Information

Brand	Eaton
	Eaton B-Line
GTIN	00781011182755
UPC	781011

Taxonomies, Classifications, and Categories

Category Description	BEAM, RA, EDGE, & PARALLEL CLAMPS
Type	Conduit to beam fastener

Packaging

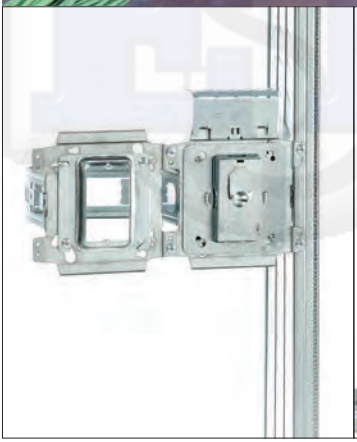
Carton	1
Package	100
Weight Per Each	0.0500 (lbs/each)

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Uses, Certifications, and Standards

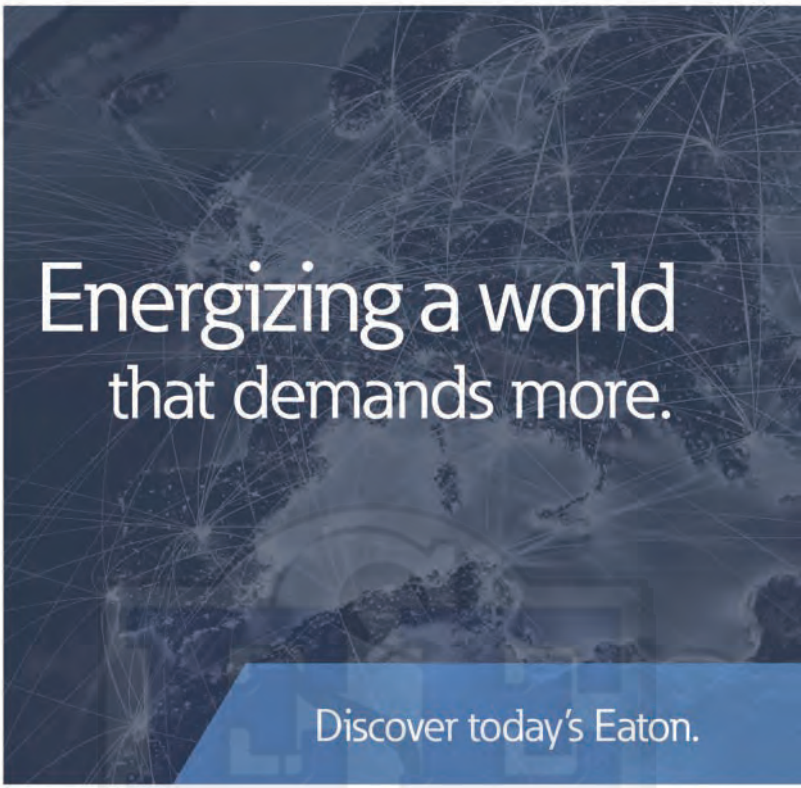
Application	Commercial / Institutional Buildings / Structures - Commercial / Institutional Buildings / Structures - OtherCommercial / Institutional Buildings / Structures - Commercial/Inst Bldg Strctures - AftermarketCommercial / Institutional Buildings / Structures - Lighting and Lighting Controls
Standard	UL Listed

Spring steel fasteners





B-Line by EATON



Powering business worldwide

As a global power management company, we help customers worldwide manage the power needed for buildings, aircraft, trucks, cars, machinery and businesses.

Eaton's innovative technologies help customers manage electrical, hydraulic and mechanical power more reliably, efficiently, safely and sustainably.

EATON
Powering Business Worldwide






We deliver:

- **Electrical solutions** that use less energy, improve power reliability and make the places we live and work safer and more comfortable
- **Hydraulic and electrical solutions** that enable machines to deliver more productivity without wasting power
- **Aerospace solutions** that make aircraft lighter, safer and less costly to operate, and help airports operate more efficiently
- **Vehicle drivetrain and powertrain solutions** that deliver more power to cars, trucks and buses, while reducing fuel consumption and emissions

We provide integrated solutions that help make energy, in all its forms, more practical and accessible.

With 2013 sales of $22 billion, Eaton has approximately 100,000 employees around the world and sells products in more than 175 countries.










Eaton's electrical business

Eaton is a global leader with expertise in:

- Power distribution and circuit protection
- Backup power protection
- Solutions for harsh and hazardous environments
- Lighting and security
- Structural solutions and wiring devices
- Control and automation
- Engineering services

Eaton is positioned through its global solutions to answer today's most critical electrical power management challenges. With 100 years of electrical experience behind us, we're energized by the challenge of powering up a world that demands twice as much energy as today. We're anticipating needs, engineering products and creating solutions to energize our markets today and in the future.

We are dedicated to ensuring that reliable, efficient and safe power is available when it's needed most.

Eaton.com

The support you rely on.

Improving efficiency during installation with maximum return on investment.

An application is only as strong as its support systems. It's not only important to have reliable power, but determining how that power is distributed – whether in commercial, industrial or data center applications – is critical for efficiency. B-Line continues to be the brand for systems that effectively protect, connect and enclose engineered facility subsystems, keeping your processes running and costs down. From cable tray systems and strut systems to spring steel fastener solutions, the B-Line business is focused on innovative solutions.

Within this Spring Steel Fastener catalog, you will find several innovative, time-saving solutions that help drive your bottom line. Below are just a few of our most recent innovative additions.

- J-Hook color ID system that help verify cables are running in their correct, designated pathways. For more information, visit www.cooperbline.com/color-id.
- BB8 Series box mounting bracket with integrated cable containment for lower installed costs. For more information, visit www.cooperbline.com/BB816.
- Ruff-IN™ pre-fab systems that can save up to 75% during installation. For more information, visit www.cooperbline.com/ruff-in.
- Rapid Ring™ self-adjusting pre-fab ring that installs in as little as 15 seconds. For more information, visit www.cooperbline.com/rapidring.
- KwikWire™ hanging system and accessories that help save time during installation. For more information, visit www.cooperbline.com/kwikwire.
- To view more, visit www.cooperbline.com/laborsavings.

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Table Of Contents

Ruff-IN™ Pre-Fab 3-8

Pictorial Index 9-15
Numbering Guide 16
Technical Data 17-18

Wall Studs 19-46

Conduit & Cable 47-74

Acoustical Tee 75-94

Beams 95-118

Hangers 119-144

Lathers Channel 145-148

Communication & Low Voltage 149-176

Accessories 177-186

Anchors 187-220

NEC Requirements 221-236

TIA/EIA Requirements 237-238

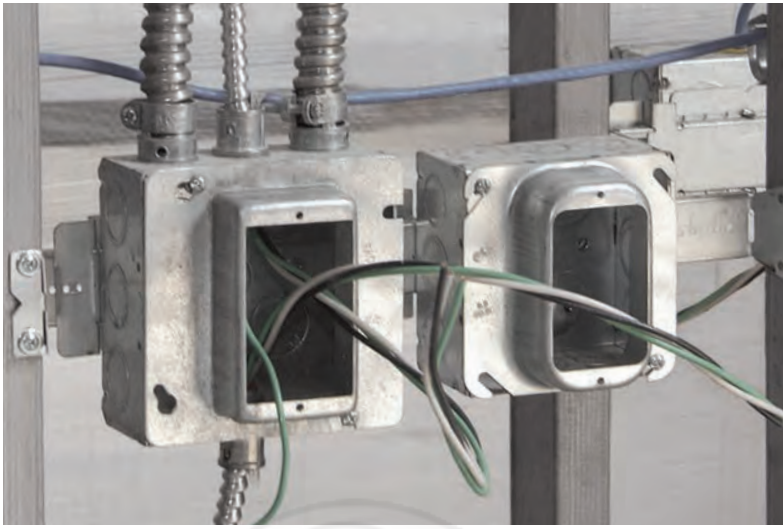
Reference Data 239-246

Alphanumeric Index 247-255

Website: www.bline.com

Ruff-IN™ Pre-Fab

Ruff-IN™ Pre-Fab



B-Line's Ruff-IN product offering continues to expand with product and assembly options. For the latest additions, visit www.cooperbline.com/ruff-in.







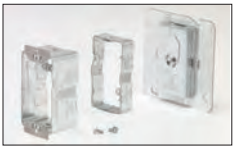


Complete Pre-Fab Offering
Choose the pre-fab offering below that best fits your needs:

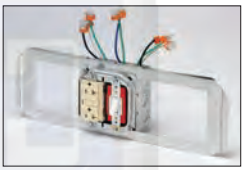
Basic Ruff-IN
Offering Contents: Bracket, Box, Mud Ring, Ground Wire



- Ideal solution for a contractor sampling pre-fab for the first time that wants to keep the control of his or her project.
- Published lead times of 3-5 days ARO, and NEXT DAY SHIPPING ON (16) QUICK-SHIP ASSEMBLIES. (See pages 5 & 6)



Ruff-IN with Wiring Devices and/or MC Cable Whips
Offering Contents: Basic Ruff-IN with Wiring Device, Protective Cover Plates, and MC Cable whip with connector(s)



- Assemblies are pre-wired for quick plug and-play installation using Wago™† or wire nut connectors.
- Wiring Device's ArrowLink™ connector offers additional labor savings with its plug in feature. (See page 4 for more details)
- Pre-wired Ruff-IN assemblies with devices and a pre-cut MC cable whip attached.
- Whip lengths available in 5-foot increments.
- Includes option to order MC cable whips only.



Total Ruff-IN™
Perfect for a contractor that desires take-off services and B-Line engineering support



- Perfect for a contractor interested in trying pre- fab for the first time that needs the engineering and assembly expertise of B-Line.
- Industry leading, published lead times for Total Ruff-IN quotation responses and order assembly.

† Wago™ is a trademark used by WAGO® Kontakttechnik GmbH & Co. KG

See Ruff-IN Pre-Fab Systems brochure for product information and part numbers.

Ruff-IN™ Pre-Fab

Distributor Quick Ship Program

Next Day Shipping Available on

12 Ruff-In Assemblies & 4 Rapid Ring™ Assemblies

- No need to request a lead time, order today and we'll ship out of stock tomorrow!
- Ask your B-Line Sales Representative for more information on stock-able Ruff-IN assemblies.

Ruff-IN Quick Ship Pre-Fab Assemblies

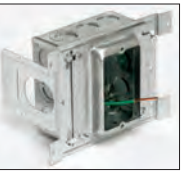
Part #	UPC #	Max. Order Qty.
BBF Series Floor-mount		
BBF18-1104DA	78205154072	50
18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BBF18-1104D	78205154065	50
18" BBF floor-mount, 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BBF18-1124DA	78205155199	25
18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BBF18-1124D	78205154176	25
18" BBF floor-mount, 1-gang 3/4" plaster ring, TP403 box, solid ground wire		
Double-Sided Box Support		
BB76-1104DA	78205155200	100
6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BB76-1104D	78205138768	25
6" Double-sided box support 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BB76-1124DA	78205154049	50
6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BB76-1124D	78205138771	25
6" Double-sided box support 1-gang 3/4" plaster ring, TP403 box, solid ground wire		
Telescoping Slider Bracket		
BB216TS-1104DA	78205139289	25
16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, stranded ground wire		
BB216TS-1104D	78205138619	25
16" Telescoping Slider Brkt, 1-gang 5/8" plaster ring, TP403 box, solid ground wire		
BB216TS-1124DA	78205139292	25
16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, stranded ground wire		
BB216TS-1124D	78205138621	25
16" Telescoping Slider Brkt, 1-gang 3/4" plaster ring, TP403 box, solid ground wire		



BBF18-1104DA

BB216TS-1104D

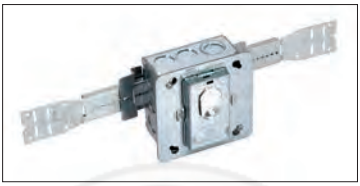




BB76-1104D

Rapid Ring™ Quick Ship Pre-Fab Assemblies

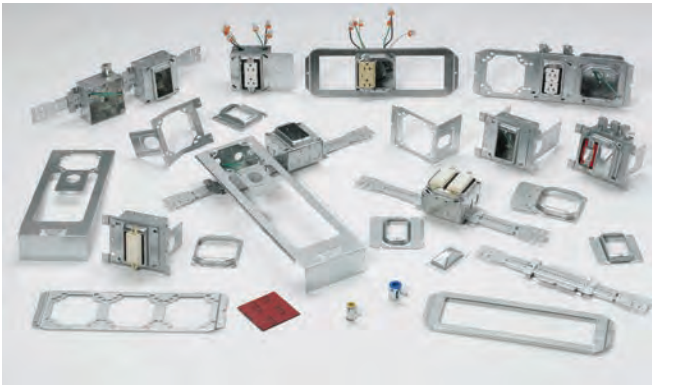
Part #	UPC #	Max. Order Qty.
BB216TS-1RR4DA	78205176294	50
16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, stranded ground wire		
BB216TS-1RR4D	78205176295	50
16" Telescoping Slider Brkt, 1-gang Rapid Ring, TP403 box, solid ground wire		
BB216TS-2RR4DA	78205176296	50
16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, stranded ground wire		
BB216TS-2RR4D	78205176297	50
16" Telescoping Slider Brkt, 2-gang Rapid Ring, TP403 box, solid ground wire		



Telescoping Slider Bracket with Rapid Ring

See Ruff-IN Pre-Fab Systems brochure for product information and part numbers.

Ruff-IN™ Pre-Fab











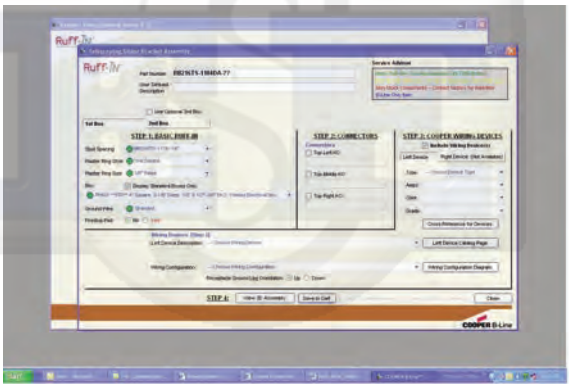


B-Line's Ruff-IN Configurator program helps simplify the planning process for pre-fab construction. The program will walk you through a component selection process, build customized pre-fab assemblies, and create a project BOM to accelerate the quotation process.

Configurator Features

- Build an assembly to your own specification by choosing from brackets, boxes, plaster rings, wiring devices, and other accessories.
- Check the assembly for accuracy by reviewing a 3D, rotatable image that is created in real time.
- Configure multiple assemblies and save them as a project.
- Divide the project into rooms and specify the types and quantities of assemblies that go in each location.
- Print a customized project submittal package with the push of a button.
- Submit the entire project with your specific job and assembly information to B-Line for a quote with one click.

All of these features translate into fewer mistakes and less time spent during the take-off process. Let the B-Line Ruff-IN Configurator go to work for you. Build your next project using B-Line's Ruff-IN pre-fabricated wiring assemblies today!
For more information, visit www.cooperbline.com/ruff-in.

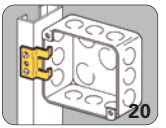


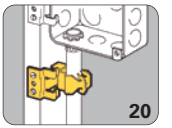


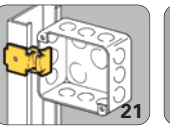
See Ruff-IN Pre-Fab Systems brochure for product information and part numbers.

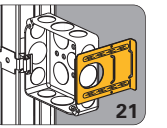
Pictorial Index

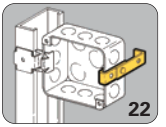
Wall Studs

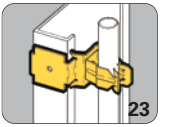


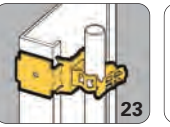


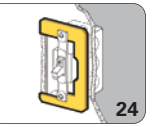


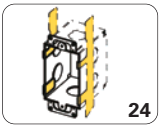


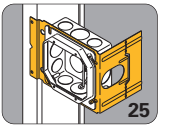


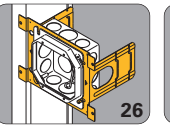


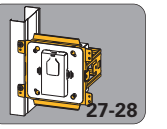


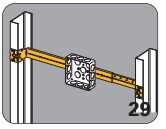


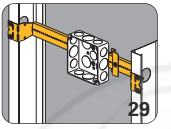


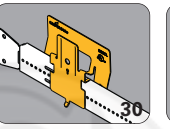


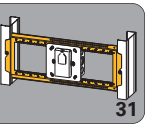


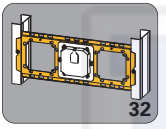


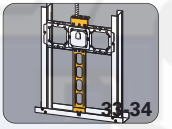


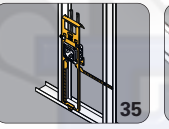


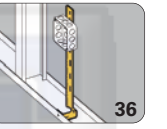


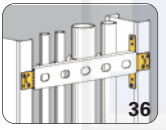


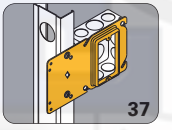


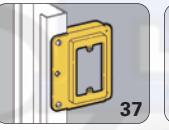






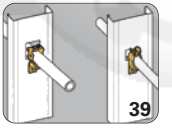




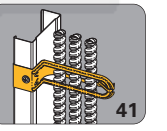


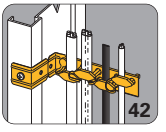


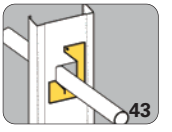


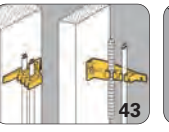


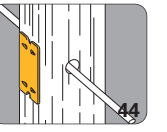


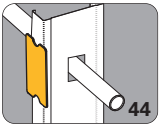


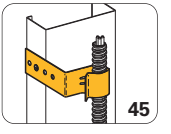


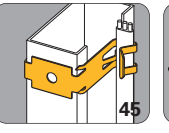


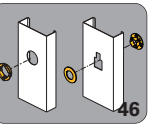




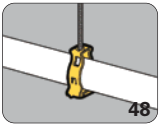


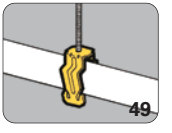






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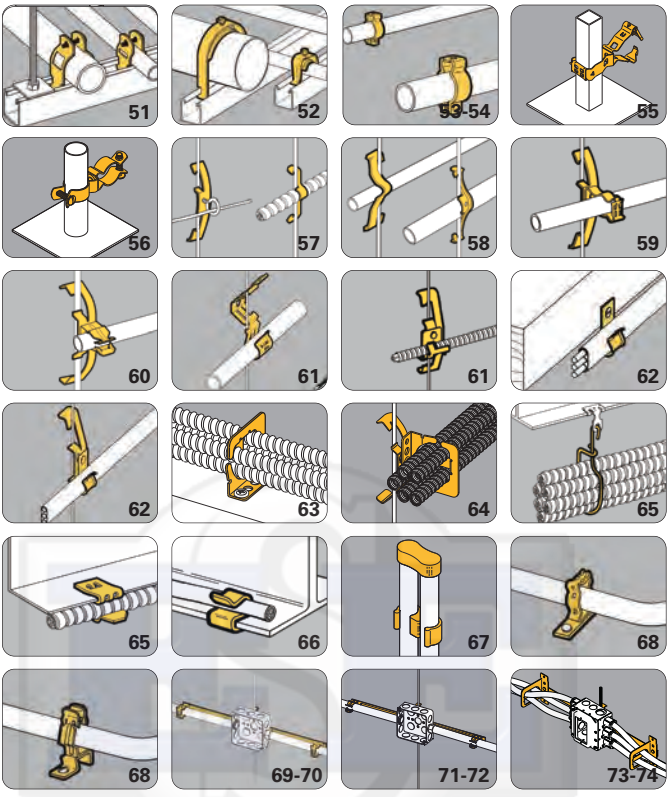




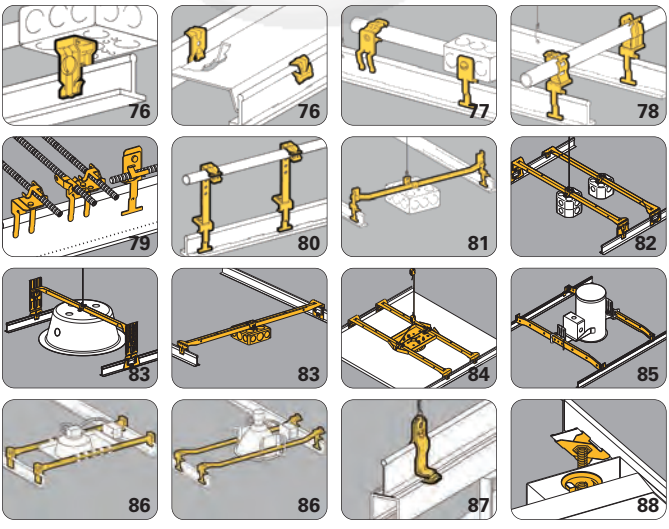




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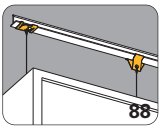
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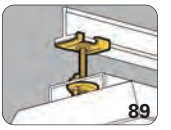


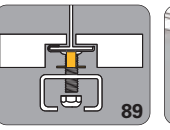
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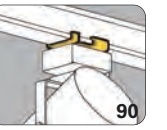
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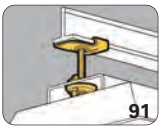
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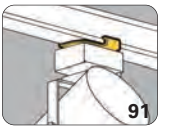


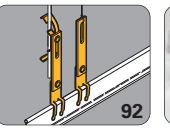






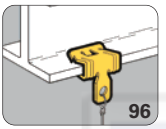


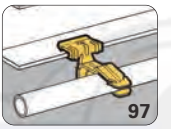


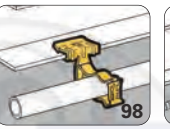


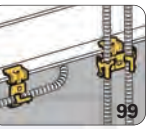


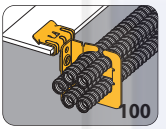
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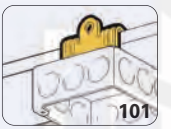


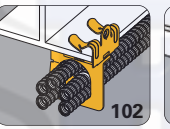


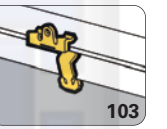


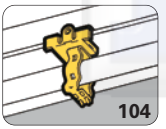


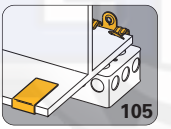


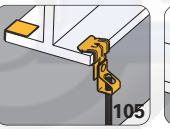


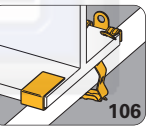


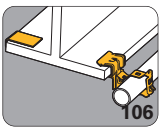


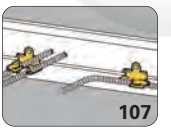


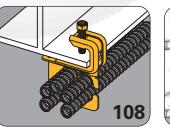


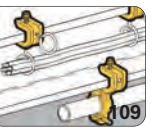


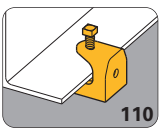


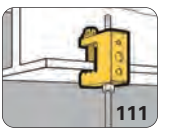




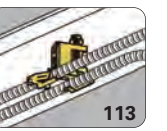


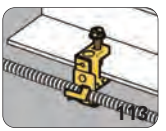


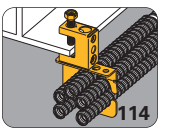


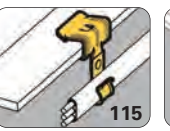




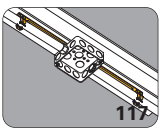


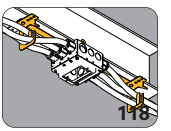




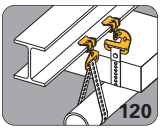


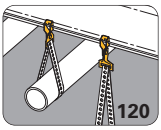


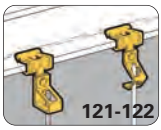


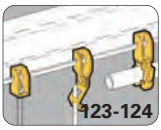


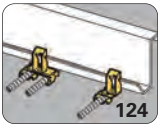
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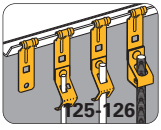


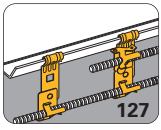


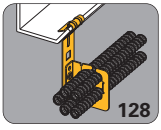


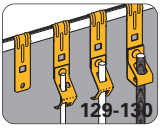


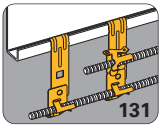


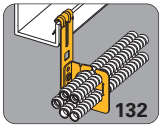


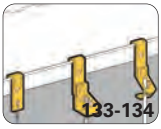


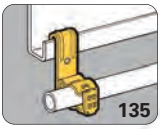




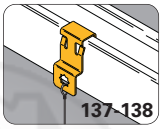


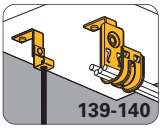


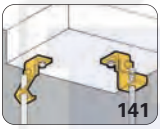


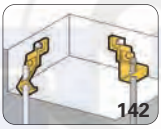




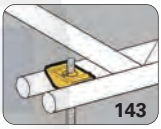


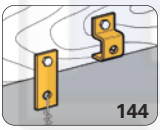


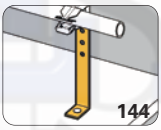




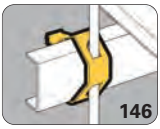


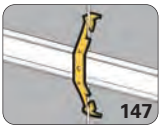


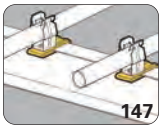


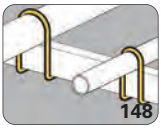


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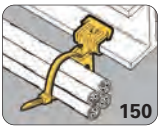


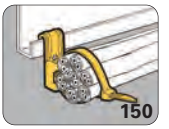


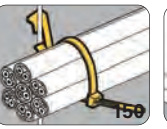


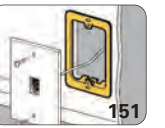


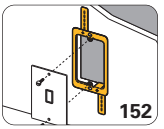
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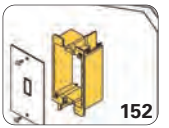


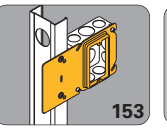




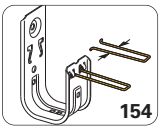


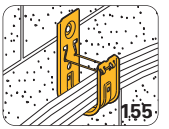






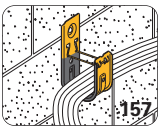


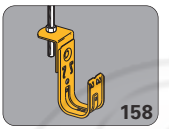


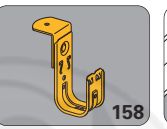


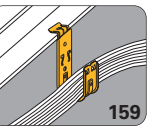


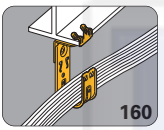


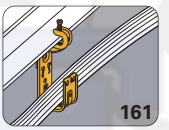


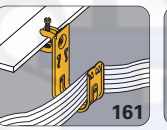


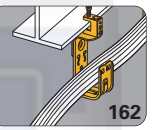


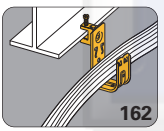




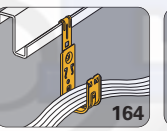


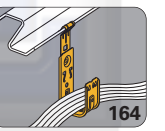


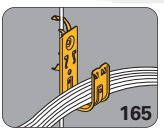


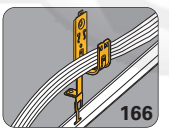


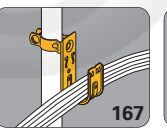


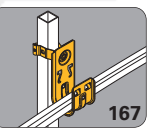


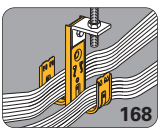


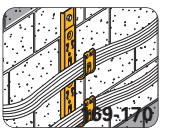


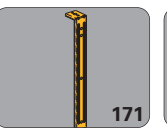


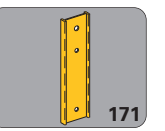


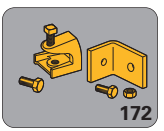


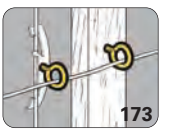


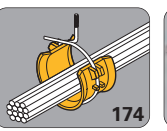


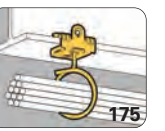


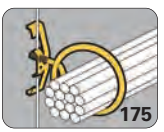


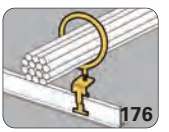


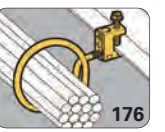






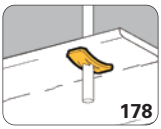


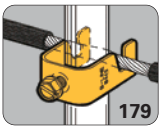


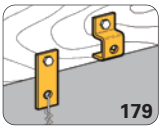


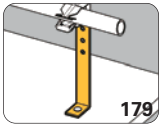
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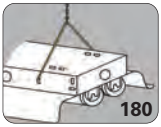


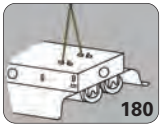


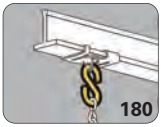


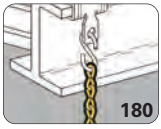








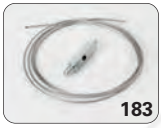


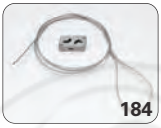




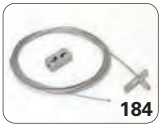






















Pictorial Index

Anchors


189-190


191-192


191-192


193


194


195


196


197-198


199-200


201-202


203-204


205-206


207


208


209

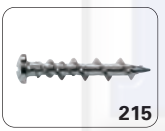

210


211


212


213


214


215


216


217


218


219

This part numbering guide can be used to quickly translate our part numbers into meaningful data.

BG - 8-12 - 4T

Family	Size	Suffix
A Series - Anchors	Based on 16th	AS - Anchor Strap
* B Series - Pipe Strap	of an inch	BL - Equipment Blue
BA - Acoustical Tee Component	1 - 1/16"	BN - Brass Nut
BB - Box Attachment	2 - 1/8"	BR - Brown
BC - Beam Clamp	4 - 1/4"	BW - Bright White
* BCH - Cable Hook	5 - 5/16"	CW - Computer White
* BCS/BES - Conduit Spacer	6 - 3/8"	D - Deep Box
BD - Deck Attachment	8 - 1/2"	FB - Flat Black
* BE - Edge Attachment	9 - 9/16"	GR - Green
BF - Flange Attachment	12 - 3/4"	H- Hanger
* BG - Guide-Rite™ Fastener	16 - 1"	LH - Less Hardware
BH - Hanger Attachment	20 - 1 1/4"	LN - Less Nut
BK - KwikWire	24 - 1 1/2"	LS - Less Stud
BL - Conduit Hangers (mini's)	32 - 2"	OR - Orange
BM - Miscellaneous	64 - 4"	R - Right Angle
BN - Push Nuts		RR - Regal Red
* BP - Push Type Fasteners		S - Stud
* BPC - Break Apart Straps		T - Threaded
* BR - Bridle Rings		TG - Telco Gray
BRC - Cable Fastener		W - White
* BRS - Bridle Ring Saddle		WBN - White /Brass Nut
BT - Installation Tools		WN - Wing Nut
* BU - Universal Beam Attachment		YL - Safety Yellow
BW - Bat Wing Fastener		4T - 1/4" Thread Imp.
BX - FMC Support		

* The data in the size column only applies to these product families.

BG - 8-12 - 4T

Guide-Rite™ Fastener	1/2" & 3/4" Conduit	1/4" Thread Impression

Materials

Steel	Specification
High Carbon Cold Rolled	ASTM A684, AISI 1055
Electrolytic Zinc Coated	ASTM A591
Pre-Galvanized	ASTM A653

Steel

B-Line spring steel fasteners are manufactured from spheroidized annealed high carbon cold rolled steel (ASTM A684, AISI 1055). Mild steel fasteners are manufactured from electrolytic zinc coated steel (ASTM A591) or pre-galvanized steel (ASTM A563).

Electrolytic zinc coated and pre-galvanized steel is produced by coating coils of sheet steel with zinc at the mills. These coils are then slit to size and fabricated into B-Line products.

Heat Treatment

B-Line spring steel fasteners are heat treated to make the steel hard and give the parts their spring quality and strength. The hardness for a given fastener depends on the required load carrying capacity and the application.

Load Data

The design load ratings for B-Line fasteners are specified in this catalog as static load capacity or ultimate static load capacity. By definition, the listed static load capacity has a safety factor of three (3.0), the listed ultimate static load capacity has no safety factor. In either case, these stated loads are not to be exceeded, and loads should be applied only as depicted in the catalog and/or instruction sheets. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Fasteners having no load ratings are designed for proper placement of boxes, conduit, etc., and not for supporting loads.

B-Line fasteners are designed for use with support members (e.g.: angle iron, bar joists, beams, columns, flanges, purlins, wire, rod) that comply with the applicable AISI standards and threaded rod that complies with the applicable AISI standards.

Quality Assurance

B-Line has an established Q.C. program in which raw material and finished products are sampled, inspected and tested by certified inspectors to assure that all applicable standards are met. B-Line's fasteners are manufactured in controlled lots and each part is identified by a lot number stamped into the part. This number allows B-Line to track each step of the manufacturing process including raw material, die set-up, heat treating, and finishing. Samples are tested to verify correct hardness, corrosion resistance and load carrying capacity.

Finish	Specification
Zinc-Phosphate	MIL-P-16232 Type Z
Electro-galvanized Zinc	ASTM B633
Pre-Galvanized Zinc	ASTM A653, G90
Gloss White Paint	Acrylic Enamel

Zinc Phosphate

B-Line spring steel fasteners receive a coating* of sealant impregnated zinc phosphate. This type of coating was commercially developed by industry to inhibit oxidation of ferrous metals for up to 72 hours in a specified salt fog atmosphere. As applied to its fasteners, B-Line rates this coating for 30 hours when salt fog tested per ASTM B-117.

Although rust resistant, B-Line fasteners should be used only indoors and in non-corrosive environments.

Unless otherwise noted, the standard finish for B-Line's spring steel fasteners is Zinc Phosphate.

*At least 1000 milligrams of zinc phosphate per square foot.

Paint

Some standard fasteners have a gloss white acrylic enamel applied over the zinc phosphate finish for an enhanced appearance that compliments white ceiling grids.

Electro-galvanized Zinc

Electro-galvanized zinc (also known as zinc plated or electroplated) is the process by which a coating of zinc is deposited on the steel by electrolysis from a bath of zinc salts.

The coating is pure zinc and is mechanically bonded to the steel. A maximum of .5 mils of zinc can be applied by this method.

When exposed to air and moisture, zinc forms a tough, adherent, protective film consisting of a mixture of zinc oxides, hydroxides, and carbonates. This film is in itself a barrier coating which slows subsequent corrosive attack of the zinc.

This coating is usually recommended for indoor use in relatively dry areas.

Pre-Galvanized Zinc

Pre-galvanized steel is produced by coating coils of sheet steel with zinc by continuously rolling the material through molten zinc at the mills. This is also known as mill galvanized or hot-dip mill galvanized. These coils are then slit to size and fabricated into B-Line products.

The G90 specification calls for a coating of .90 ounces of zinc per square foot on each side of the sheet.

During fabrication, cut edges and welded areas are not normally zinc coated; however, the zinc near the uncoated metal becomes a sacrificial anode to protect the bare areas after a short period of time.

Pre-galvanized steel is recommended for indoor use in dry areas.

CAUTION: Do not use B-Line Fasteners outdoors or in corrosive environments. Proper application of each fastener is shown in this catalog and on the installation sheet inside each carton. Failure due to improper installation may cause harm to personnel and/or property. Allowable loads shown apply to the fastener only and do not account for the structure, which supports the fastener. Flanges, wires and rods used with these fasteners must meet A.I.S.I. standards. To improve personal safety on the jobsite, always observe all federal and local safety regulations: wear gloves, safety glasses and a hard hat.

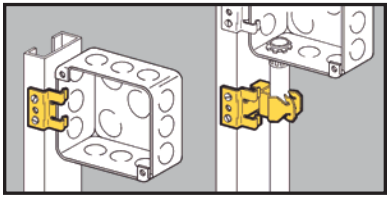












- Attaches with screws to metal studs.
- BB1 supports electrical box.
- BG series features Guide-Rite design.
- BP series features push-type design.

Box To Stud Fastener



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118145	**BB1**	Electrical Box Support Clip	100

Guide-Rite™ Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101118420	**BG-6-B1 ***	3/8"	100
781011 18475	**BG-8-12-B1**	1/2", 3/4"	100
781011 18555	**BG-16-B1**	1"	100

Patent #4958792

* BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

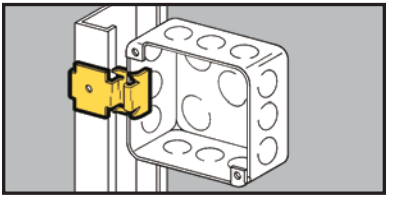
Push Type Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
781011 19245	**BP-8-B1**	1/2" EMT	100
781011 19345	**BP-12-B1**	3/4" EMT, 1/2" IMC, Rigid	100
781011 19440	**BP-16-B1**	1" EMT, 3/4" IMC, Rigid	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Wall Studs

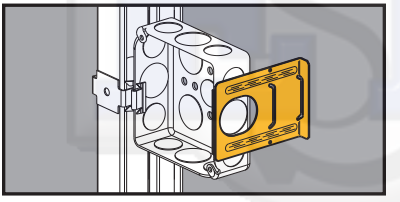


- Attaches electrical boxes (requiring plaster rings) to most metal studs.
- Box mounts flush to back of drywall.
- Simply installed with a hammer.

Box To Stud Fastener



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118270	**BB9**	Electrical Box Support	100



- Provides far-side support for electrical boxes in 2 1/2" thru 6" studs.
- Cut outs facilitate bending to provide precise installation with greater stability.
- Easily snaps onto box side and is secured in place by plaster ring.

Adjustable Box Stabilizers



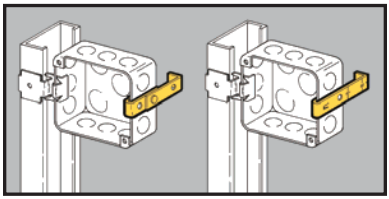
BB12



BB12-6

UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101192876	**BB12**	2 1/2" thru 4"	100
78101192879	**BB12-6**	6"	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



- Provides far-side support for electrical boxes.
- See BB12 Series for a better solution.

Box Stabilizer


BF1-96


BF1-64

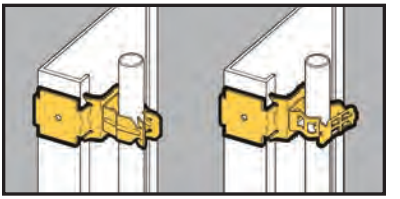

BF1-56


BF1-40

UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101118320	**BF1-40**	2 1/2"	100
78101118325	**BF1-56**	3 1/2"	100
78101118330	**BF1-64**	4"	100
78101118335	**BF1-96**	6"	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Wall Studs



- Attaches conduit to most metal studs.
- BG Series features Guide-Rite design.
- BP Series feature push-type design.

Guide-Rite™ Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101118425	**BG-6-B5** *	3/8" or BX	100
78101118480	**BG-8-12-B5**	1/2", 3/4"	100
78101118560	**BG-16-B5**	1"	100
78101118645	**BG-20-B5**	1 1/4"	50

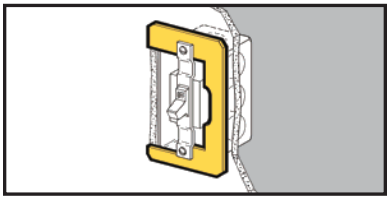
Patent #4958792

* BG-6 will accept the following range ∅.420 - ∅.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

Push Type Conduit To Stud Fastener



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119250	**BP-8-B5**	1/2" EMT	100
78101119350	**BP-12-B5**	3/4" EMT, 1/2" IMC, Rigid	100
78101119445	**BP-16-B5**	1" EMT, 3/4" IMC, Rigid	100

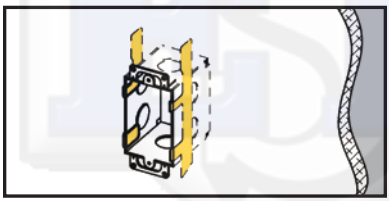


Retainer Leveler

- BB32 adds rigidity to devices in oversize wall openings.
- Holds wiring device firmly in drywall.
- Can be used with switches, receptacles, GFCIs and decorator devices.
- Ideal for positioning devices in pre-fab installations.
- Finish: Pre-Galvanized

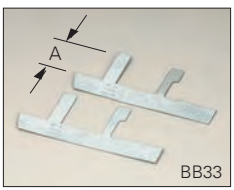


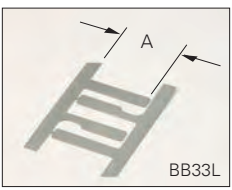
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118215	**BB32**	Adds Rigidity to Oversize Wall Openings	100



Box Support

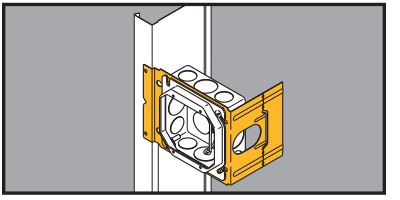
- Attaches electrical boxes to finished drywall.
- Box is completely supported by drywall.
- Prevents box from pulling out of wall.
- Finish: Pre-Galvanized





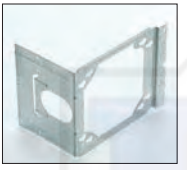
UPC/Part Number	Catalog Number	Description	Length A	Box Qty.
78101101138	**BB33**	Box Support	1 1/2"	100 pr.
78101104936	**BB33L**	Long Leg Box Support	2 1/2"	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

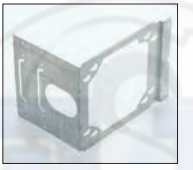


Box Support Brackets

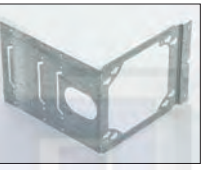
- Improved far-side support stands up during drywall installation and out performs competitor brackets.
- Supports 4" or $4^{11}/_{16}$", square boxes.
- Brackets may be piggy-backed in series.
- Finish: Pre Galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.



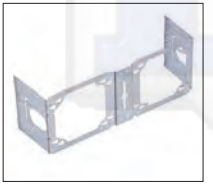
BB4-23



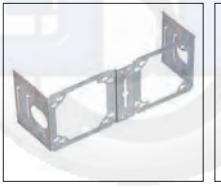
BB4-4



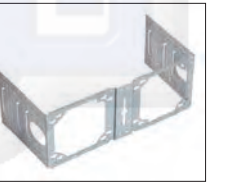
BB4-6



BB4-23D



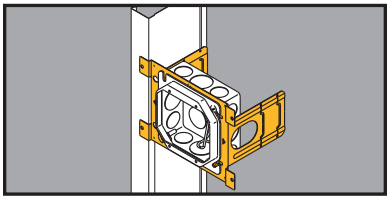
BB4-4D



BB4-6D

UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
78101118190	**BB4-23**	$3^5/_8$", $2^1/_2$"	100
78101118200	**BB4-4**	4", $3^5/_8$", $2^1/_2$"	100
78101118202	**BB4-6**	6", $5^1/_2$", $3^5/_8$", $2^1/_2$"	100
79903848375	**BB4-23D**	$3^5/_8$", $2^1/_2$"	50
79903848376	**BB4-4D**	4", $3^5/_8$", $2^1/_2$"	50
79903848377	**BB4-6D**	6", $5^1/_2$", $3^5/_8$", $2^1/_2$"	50

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

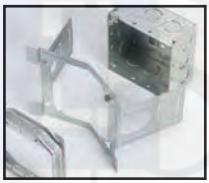


Double-Sided Box Support Bracket w/ Marty-Mouse™ Ears

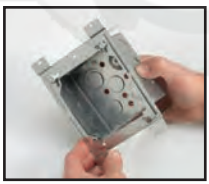
- Double-side box support, designed for Pre-Fab. Unit can be installed on either side of stud without repositioning box or devices.
- Patented Marty Mouse™ ears feature an innovative keyhole pattern to secure outlet box to bracket with or without the plaster ring.
- Wider box opening accommodates one or two gang adjustable plaster rings (B1AJ & B2AJ).
- Enhanced far-side support stands up during drywall installation and out out performs competitor brackets.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-Galvanized



1. Bracket is shipped with ear tabs in the open position



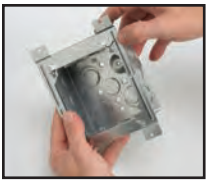
2. Insert box screws into open slots



3. When plaster ring is installed, the ear tabs are bent down into the closed position



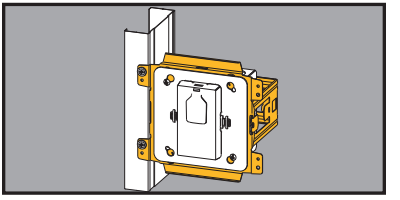
4. With the tabs closed, the box remains secured to the bracket when the plaster ring is removed



UPC/Part Number	Catalog Number	Stud Size	Box Qty.
78205138645	**BB73**	3 5/8", 2 1/2"	50
78205138717	**BB74**	4", 3 5/8", 2 1/2"	50
78205138759	**BB76**	6", 5 1/2", 3 5/8", 2 1/2"	25

Patent # 5595362

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

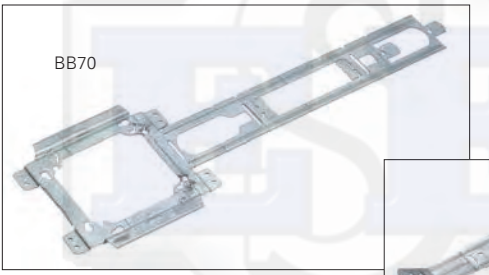


- Interlocking wrap-around design provides extra rigidity.
- Supports most standard 1-gang and 2-gang US and Canadian boxes and/or plaster rings 4" SQ., 4 11/16" SQ., and 5" SQ. on either side of the stud.

Box Support Brackets

Available August 2014

- Adjustable for varying stud depths (2 1/2" to 6").
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Integral mounting tabs for attaching plaster rings.
- Multiple brackets may be ganged together.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box, mud ring, and pre-wired devices.
- Finish: Pre Galvanized.
- Patent Pemding



BB70E*
(Sold separately, must be used with BB70)



See following page for various product information.

UPC/Part Number	Catalog Number	Metal Stud Size	Box Qty.
79903856399	**BB70**	2 1/2" - 4"	50
79903856400	**BB70E***	5 1/2" - 6"	50



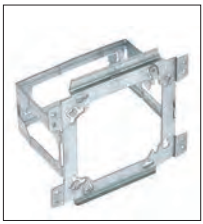
Can be used with BBCC (containment clip) and BBFS-18 (floor stand) See pages 33 & 34.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

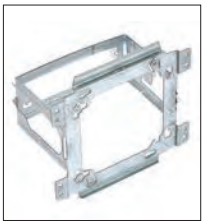
Bent For Various Depths



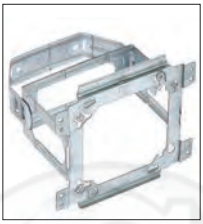
2 1/2″



3 5/8″



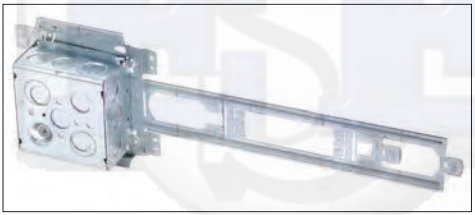
4″

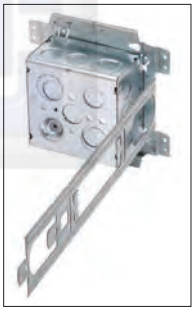


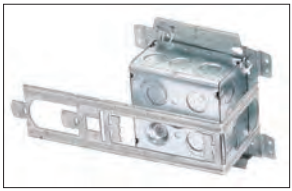
6″

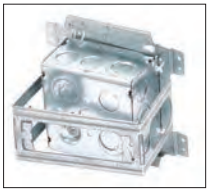
For 5 1/2″ depth, snap the BB70E into the next notch on the bracket side

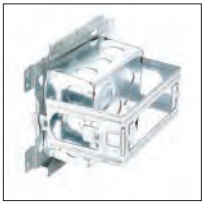
Bending Bracket For 3 5/8″ Depth

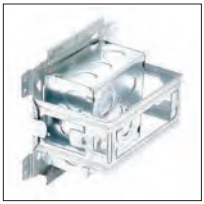




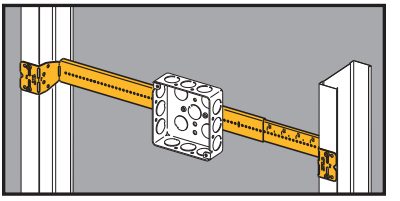






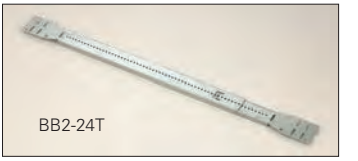


Read safety/installation instruction sheets in packages before use.
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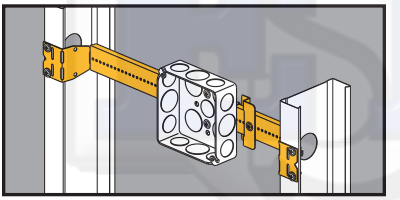
Telescoping Box Mounting Bracket

- Completely adjustable - fits a range of stud spacings and 1 1/2" or 2 1/8" deep boxes.
- Pre-punched screw holes provide for easy box installation.
- Bar is marked with scale for stud spacing.
- Finish: Pre-galvanized



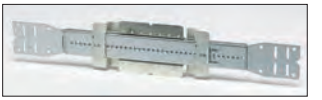
UPC/Part Number	Catalog Number	Metal Stud Spacing	Box Qty.
78101104256	**BB2-16T**	11" to 18"	50
78101101664	**BB2-24T**	15" to 26"	50

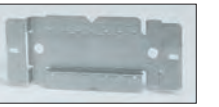
Licensed under Patent #5386959 • Patent #5209444



Telescoping Slider Bracket

- Designed for pre-fab.
- Box can be attached to slider bracket before or after slider is installed on telescoping bracket.
- Box location can be field adjusted by moving slider along telescoping bracket.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

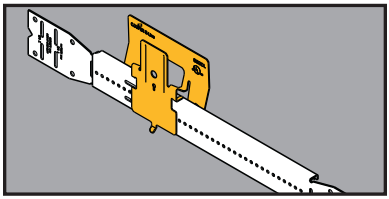




UPC/Part Number	Catalog Number	Stud Spacing	Box Qty.
78205138614	**BB216TS**	11" to 18"	20
78205138628	**BB224TS**	15" to 26"	20
78205138613	**BB2TS**	Slider Bracket Only	50

Patent # 7,472,875

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



CROC-LOK™ Box Mounting Bracket



- Designed for pre-fab.
- Outlet boxes mount to the CROC-LOK with single screw.
- CROC-LOK box assemblies can be attached before or after the telescoping bar is mounted in the stud wall.
- The tool-less design enables CROC-LOK assemblies to be field installed in less than 4 seconds. Simply squeeze, secure and walk away.
- See Ruff-IN™ brochure for pre-fab box assemblies.

UPC/Part Number	Catalog Number	Description	Stud Spacing	Box Qty.
78205151291	**BB2CL**	CROC-LOK only	N/A	50
78205151292	**BB216TCL**	BB216T with CROC-LOK	11" - 16"	20
78205151293	**BB224TCL**	BB224T with CROC-LOK	15" - 24"	20

U.S. Patent # 8,403,277

Note:

Secures to B-Line BB2-16T and BB2-24T telescoping brackets only.
For a standard $2^1/_8$" deep box, the stud depth must be $3^1/_2$" or greater.
For a shallow $1^1/_2$" deep box, the stud depth must be $2^1/_2$" or greater.

Mounting Screws

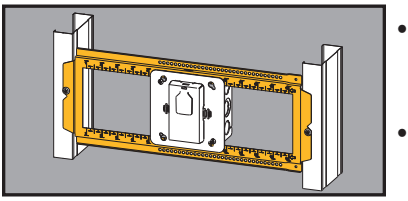

BWHS-9


BWHS-9D

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101675	**BWHS-9**	#8 x $^9/_{16}$" Sheet Metal Screw	1000
78101104925	**BWHS-9D**	#8 x $^9/_{16}$" Self-Drilling Sheet Metal Screw	1000

Note: BWHS-9 & BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws, except on BB2-16, BB2-16D, BB2-24 & BB2-24D which only BWHS-9 can be used.

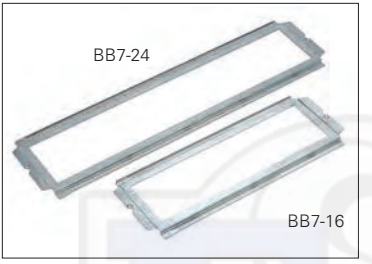
Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Open Box Mounting Bracket

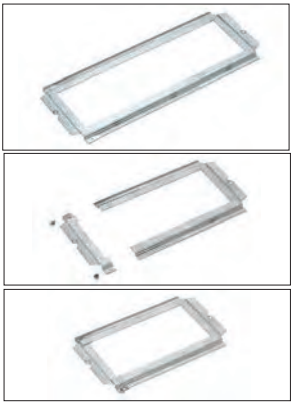
Available August 2014

- Open box support allows for adjustability of box position between studs.
- Supports most US and Canadian boxes and/or plaster rings 4" SQ., 4 11/16" SQ., 5" SQ., and multi-gang boxes.
- Fits up to 1 1/2" wide studs 16" to 24" on center.
- Compatible with Rapid Ring™ & adjustable plaster rings.
- Field cut to adjust to non-standard stud spacings.
- Stamped markings at 1/4", 1/2", and 1" increments to allow the installer to easily locate the desired box position.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending



UPC/Part Number	Catalog Number	Description	Box Qty.
78205145325	**BB7-16**	16" Stud Spacing	25
78205145328	**BB7-24**	24" Stud Spacing	25

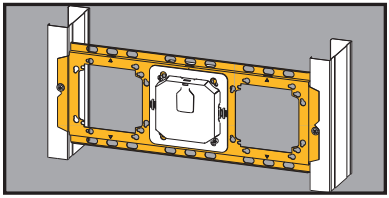
Can be cut on a mark to make shorter length brackets.



Can be used with BBFS-18 (floor stand) See pages 33 & 34.

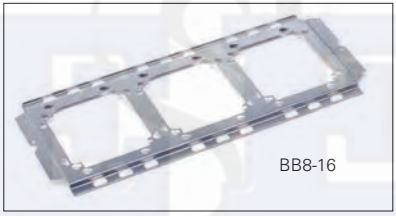


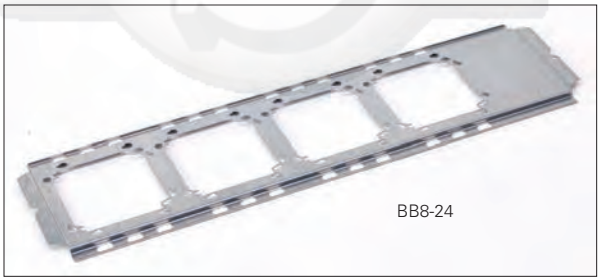
Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Box Mounting Bracket

- Increased strength and rigidity help withstand the stress of drywall installation.
- Supports most US & Canadian boxes and plaster rings 4" SQ. and $4^{11}/_{16}$" SQ.
- Compatible with 1-gang and 2-gang Rapid Ring™ and adjustable plaster rings.
- Available factory assembled as part of the Ruff-IN™ pre-fab line with box(es), mud ring(s), and pre-wired devices.
- Finish: Pre-galvanized
- Patent Pending

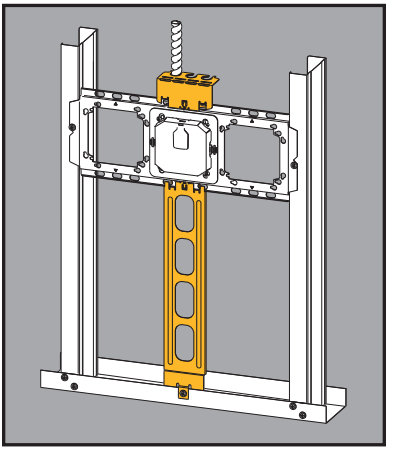




UPC/Part Number	Catalog Number	Description	Box Qty.
78101102898	**BB8-16**	16" Stud Spacing	25
78101102900	**BB8-24**	24" Stud Spacing	25

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Wall Studs

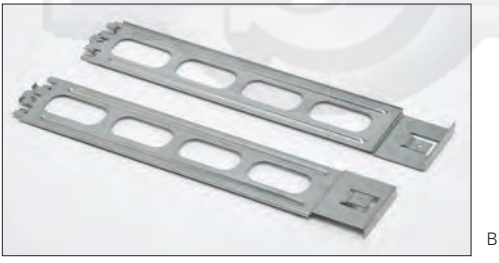


- Bracket accessories require no tools to install.
- BBCC cable containment clip provides first means of support for MC cable.
- BBFS-18 floor stand ensures consistent box height and eliminates need to measure for proper install height.
- Can be used with BB7 and BB8 brackets. See pages 27, 31, and 32.
- Pre-galvanized finish.

Box Mounting Bracket Accessories



BBCC

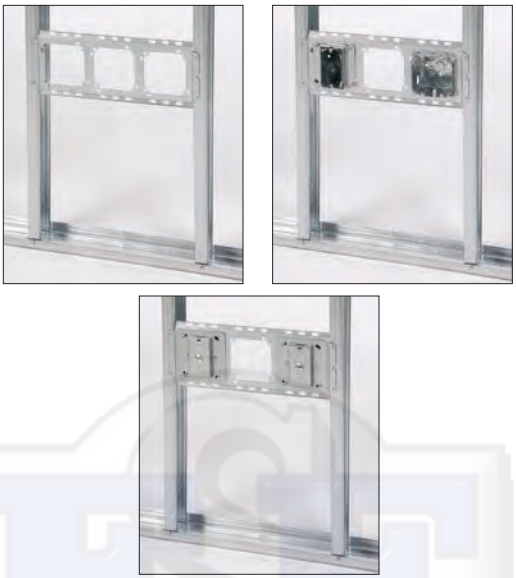


BBFS-18

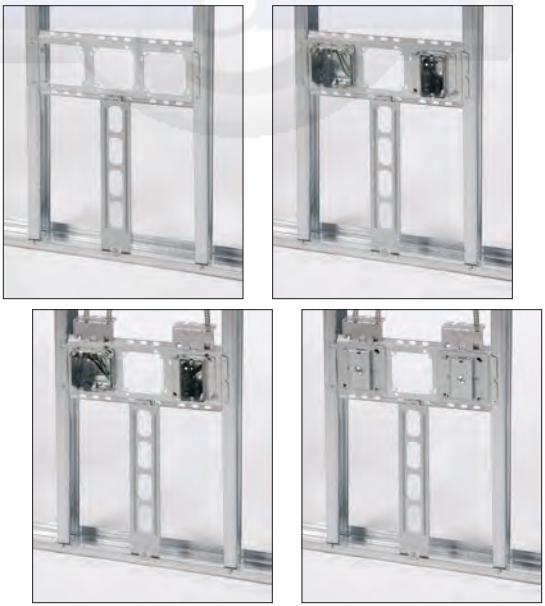
UPC/Part Number	Catalog Number	Description	Box Qty.
79903851597	**BBFS-18**	Floor Stand	25
79903851598	**BBCC**	.439" - .750" OD MC Cable	50

Box Mounting Bracket Accessories con't.

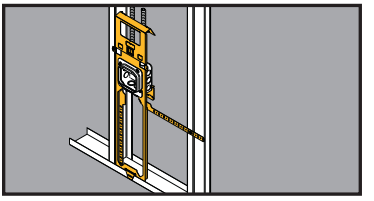
BB8-16 Installed



BBFS-18 & BBCC Installed (Can be used with BB7 or BB8 brackets)



Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Floor-Mount Box Support

- New BBF floorstand provides the most rigid support in the industry.
- Far-side support accommodates 6", 5 1/2", 3 5/8", and 2 1/2" stud depths.
- Fold-out tab built-in to attach floor stand to stud if desired.
- Integral "wings" provide rigid support when floorstand is mounted between studs.
- Optional cable containment clip securely attaches to floorstand without hardware.
- Patented Marty Mouse™ ears enable boxes to be secured in place with or without the plaster rings.
- Finish: Pre-galvanized.
- See Ruff-IN™ brochure for pre-fab box assemblies.



BBF15



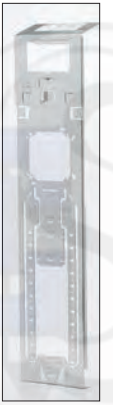
BBFC



BBF18



BBF24

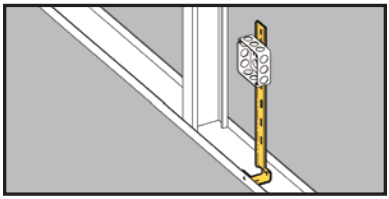


BBFxxC

UPC/Part Number	Catalog Number	Box Center Height	Box Qty.
78205152944	**BBF15**	15" Floorstand	25
78205152945	**BBF18**	18" Floorstand	25
78205152946	**BBF24**	24" Floorstand	25
78205152947	**BBFC**	18" Floorstand	25
78205152948	**BBF15C**	15" Floorstand with Cable Clip	25
78205152949	**BBF18C**	18" Floorstand with Cable Clip	25
78205152950	**BBF24C**	24" Floorstand with Cable Clip	25

Patent #5595362
Patent #7956285 B2

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

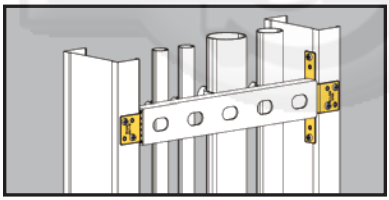


- **See BBF Series for a better solution.**
- Provides support for electrical box from floor track or concrete forms.
- 18" length with break-away feature for 12" or 16" box mounting.
- Finish: Pre-galvanized

Floor Mounted Box Support

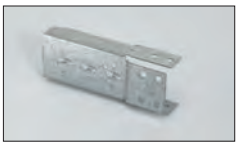


UPC/Part Number	Catalog Number	Description	Box Qty.
78101103623	**BB-18**	Floor Mounted Box Support	50



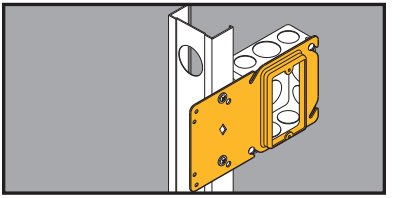
- Attaches 13/16" strut, 1 1/2" lathers channel, 1/2" EMT or 3/4" EMT to metal studs.
- Provides support for vertical runs of conduit.
- Finish: Pre-galvanized

Strut Mounting Brackets



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101658	**BMB1**	Strut Mounting Bracket	25 pr.

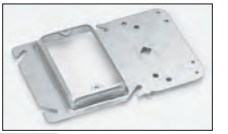
Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

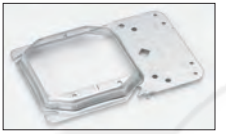


Uni-Mount™ Box Support/Cover Plate Mounting Bracket

- Uni-Mount provides a secure support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Enlarged viewing hole makes it easier to find mark lines on the stud.
- Gangable design accepts BB423 bracket to mount boxes on both sides of the stud.
- See Ruff-IN™ brochure for pre-fab box assemblies.
- Finish: Pre-galvanized

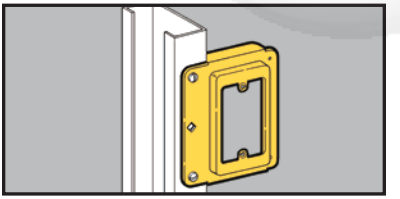
Single Gang
BB40 Series





Double Gang
BB45 Series

UPC/Part Number	Catalog Number	Description	Box Qty.
78205122768	**BB40-08**	1/2" Raise	50
78205122771	**BB40-10**	5/8" Raise	50
78205122772	**BB40-12**	3/4" Raise	50
78205122773	**BB45-08**	1/2" Raise	50
78205122774	**BB45-10**	5/8" Raise	50
78205122775	**BB45-12**	3/4" Raise	50



Cover Plate Mounting Bracket



- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Can be piggy-backed.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119873	**BB15**	Single Gang Stud Bracket	50

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

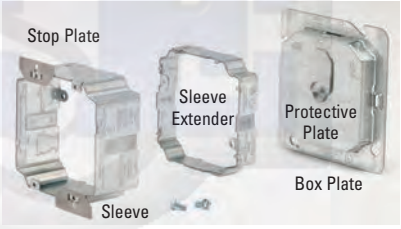
Rapid Ring™ Self Adjusting Pre-Fab Ring

The Rapid Ring self-adjusting pre-fab plaster ring can help you win tight bids and beat the profit squeeze with its innovative 4-step installation. This revolutionary new pre-fab system installs in as little as 15 seconds per unit, compressing your project schedule, cutting operational costs and reducing onsite waste.

Because the Rapid Ring is a self-adjusting pre-fab ring, you'll never need to adjust a mud ring again. With a simple push of the Rapid Ring you're flush every time.



1. Remove protective plate.
2. Connect the wiring device.
3. Position the device assembly.
4. Push in the device assembly–and you're done!



For Use With Wiring Device Qty.	Electrical Box [5]	Box Plate [1] Cat. No.	Sleeve [2,3] Cat. No.	Sleeve Extender [4] Cat. No.
1	4″ sq.	**B1RRP4C**	**B1RRR**	**B1RRE**
1	4 11/16″ sq.	**B1RRP5C**	**B1RRR**	**B1RRE**
2	4″ sq.	**B2RRP4C**	**B2RRR**	**B2RRE**
2	4 11/16″ sq.	**B2RRP5C**	**B2RRR**	**B2RRE**
3	3-gang [6]	**B3RRPC**	**B3RRR**	**B3RRE**
4	4-gang [7]	**B4RRPC**	**B4RRR**	**B4RRE**

1. Protective plate included with box plate.
2. Wall thickness range: 1/2″ min. to 1 1/4″ max.
3. Stop plates included with sleeve.
4. Sleeve extender is an optional accessory to extend max. wall thickness range to 2″ (order separately, mounting hardware included)
5. Minimum electrical box depth is 2 1/8″
6. Keyhole knockouts allow use on 2-gang electrical box.
7. Keyhole knockouts allow use on 3-gang electrical box.

Go to www.cooperbline.com/rapidring

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

Wall Studs



- Supports horizontal runs of conduit, flexible conduit, MC or AC cable through metal studs.
- Attaches easily with a single sheet metal screw.
- Prevents conduit/cable rattling.

Conduit/Cable Supports

BG-x-H7





BP-x-H7
(Not UL)

BX4-H7

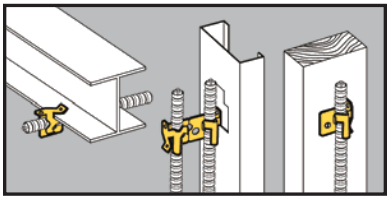


BX4M-H7
(Not UL)



UPC/Part Number	Catalog Number	Conduit/Cable Size	Box Qty.
78101101228	**BG-6-H7** *	3/8", MC, AC, or FMC	100
78101110238	**BG-8-12-H7**	1/2" or 3/4"	100
Patent #4958792			
78101101227	**BP-8-H7**	1/2" EMT	100
78101101226	**BP-12-H7**	3/4" EMT 1/2" IMC, Rigid	100
78101101200	**BX4-H7**	MC, AC, or FMC	100
78101101205	**BX4M-H7**	MC, AC, or FMC	100

* BG-6 will accept the following range Ø.420 - Ø.675:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



Flexible Conduit/ Cable Fasteners

- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to studs or flanges up to 3/16" thick.
- Snaps into place on metal stud openings or may be screwed to metal or wood studs.
- BX4M may be snapped in half to make two BX4's.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

BX4



BX4M

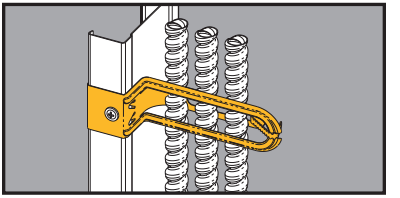


BX4MD



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101079	**BX4**	Single Runs	100
78101101080	**BX4M**	Double Runs	100
78101101224	**BX4MD**	Up to 4 Runs	100

Wall Studs



Cable Support



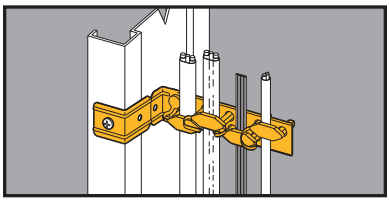
- Metal cable support can be used in plenum-rated areas.
- Longer locking tabs.
- Shipped pre-assembled.
- Hinge can be opened for greater cable capacity.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

UPC/Part Number	Catalog Number	Description	Box Qty.
79903843761	**BRC6M**	Up to 3/4" FMC	100

Note: Canadian applications are limited to wood studs only.

Cable Size	Cable Type: Non-Metallic (NM) Qty.	NM Dia.	Metal Clad (MC) Qty.	MC Dia.	Armored Cable (AC) Qty.	AC Dia.
14-2 w/ Grnd	8	.360	5	.439	5	.464
14-3 w/ Grnd	8	.307	5	.464	5	.483
14-4 w/ Grnd	8	.336	4	.494	4	.517
12-2 w/ Grnd	7	.410	5	.475	4	.498
12-3 w/ Grnd	8	.347	4	.505	4	.521
12-4 w/ Grnd	7	.381	4	.539	4	.557
10-2 w/ Grnd	6	.494	4	.542	4	.560
10-3 w/ Grnd	7	.422	4	.580	4	.588
10-4 w/ Grnd	NA	NA	3	.623	3	.632
8-2 w/ Grnd	4	.612	NA	NA	NA	NA
8-3 w/ Grnd	4	.565	NA	NA	NA	NA
6-2 w/ Grnd	4	.650	NA	NA	NA	NA
5/16 FMC	5 (,470 to .510 Dia.)					
3/8 FMC	4 (.560 to .610 Dia.)					
1/2 FMC	1 (.860 to .920 Dia.)					
3/4 FMC	1 (1.045 to 1.105 Dia.)					

The quantity of cables shown in the chart is the maximum.
Fewer cables can be supported. Diameters are based on data from a leading cable manufacturer (may vary slightly).
Diameters of some NM cables refer to the widest dimension of a flat cable. NA = Not applicable



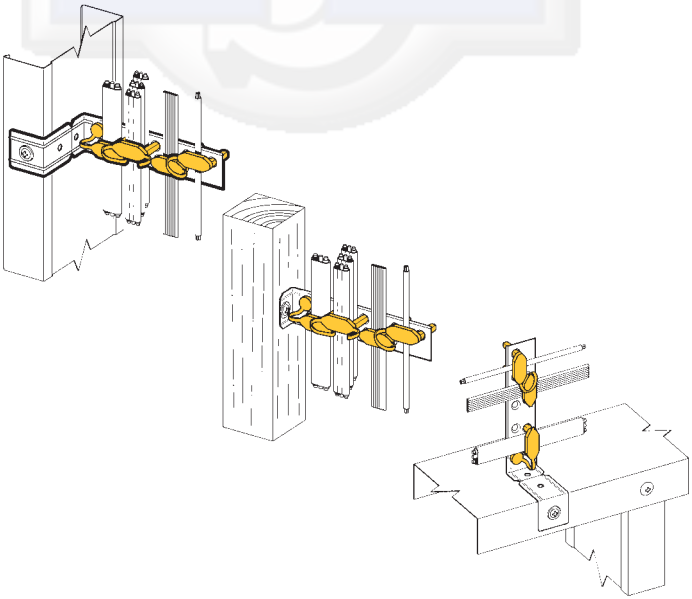
Staple-Lok™ Multi-Purpose Cable Support

- Individual plastic staples grip cable and reduce slipping.
- Secures up through #10 type NM cable.
- Supports AC, MC or FMC cable up to 1/2" O.D.
- Break-apart feature allows installation on studs and furring strips.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).

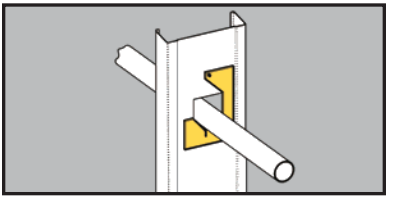


UPC/Part Number	Catalog Number	Cable Size	Box Qty.
78101103587	**BRC4**	Up to .500" O.D.	100

Patent #5587555



Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

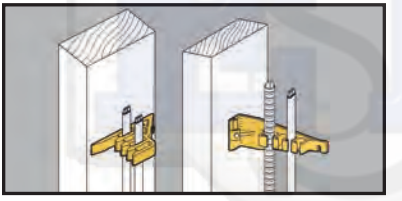


Conduit/Cable Supports

- Allows conduit, MC, AC, or FMC to be pulled through metal studs.
- Provides support for horizontal runs of conduit or cable through metal stud.
- Prevents rattling of conduit/cable.
- Finish: Pre-galvanized



UPC/Part Number	Catalog Number	Conduit/Cable Size	Box Qty.
78101101657	**BX82**	Up to 1″	100



Cable Fasteners

- Attaches Type NM cables to wood studs.
- Can be used to support computer, CATV, telephone, security and instrumentation cables.
- Provided with nail inserted.
- Allows cables to be positioned a minimum of 1 1/4″ from face of stud as required by NEC Article 300.4(D).



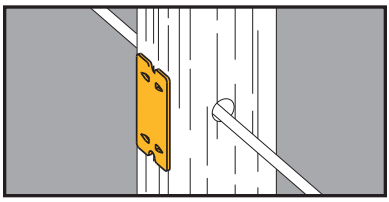
BRC1



BRC2

UPC/Part Number	Catalog Number	Description	Box Qty.
78101102941	**BRC1**	Wood Stud Cable Fastener	50
78101102941	**BRC2**	Furring Strip Cable Fastener	50

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

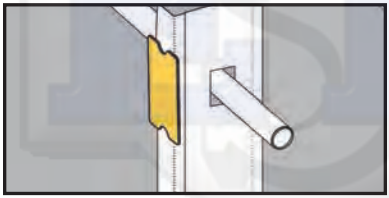


- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Easily installed with a hammer.
- Complies with NEC Article 300-4.

Nail Plates For Wood Studs



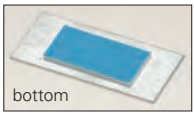
UPC/Part Number	Catalog Number	Description	Box Qty.
78101104927	**BM3**	Nail Plate	100



- Protects cable, plastic pipe and copper tubing from screw or nail penetration.
- Comes with industrial grade double stick tape on back for easy installation on stud.
- Complies with NEC Article 300-4.

Nail Plates For Metal Studs





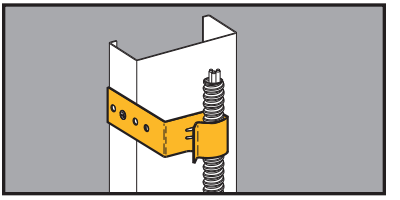


Just Peel Tape and Stick To Stud

UPC/Part Number	Catalog Number	Description	Box Qty.
78101126251	**BM3M**	Nail Plate	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

B-Line by EATON



Conduit Support

- Larger capacity: Redesigned BB38D attaches 1/2" to 1" EMT or flexible conduit to metal or wood studs.
- BB38 attaches MC/AC cable, 1/2" & 3/4" EMT to metal or wood studs.
- Eliminates the need for offset bending of conduit.
- Aligns conduit with standard box knockouts.

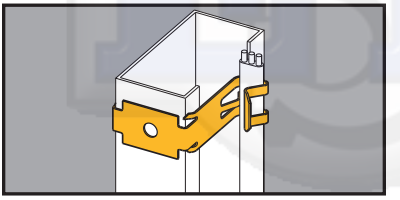


BB38



BB38D

UPC/Part Number	Catalog Number	Box Depth	Box Qty.
78101104265	**BB38**	1 1/2"	100
78101195244	**BB38D**	2 1/8"	100



Flexible Conduit/ Cable Fasteners

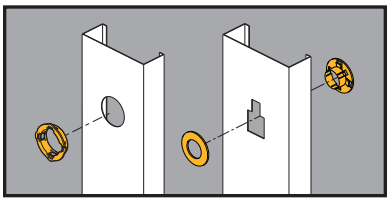
- Secures Romex®† sizes 14/2 w/ground thru 12/3 w/ground, MC/AC sizes 14/2 thru 12/3 to metal or wood studs.
- Allows cables to be positioned a minimum of 1 1/4" from face of stud as required by NEC Article 300.4(D).



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119755	**BX5**	Secures Flexible Conduit or Cable to Metal or Wood Studs	100

†Romex® is a registered trademark used by Southwire® Company, Carrollton, Georgia.

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Metal Stud Grommet

- BM1 snaps into standard $1^{11}/_{32}$" diameter holes in metal studs from 25 Ga. to 16 Ga.
- Redesigned BM2 is shipped as one piece and easily separated for installation.
- Universal BM2 provides 360° protection. Fits all factory punched metal stud holes.
- Protects wire insulation in accordance with NEC Article 300.4(B) (1).



BM1



BM2

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119100	**BM1**	Plastic Grommet	100
78101119102	**BM1M**	Plastic Grommet (Bulk Quantity)	100
78101104926	**BM2**	Universal Plastic Grommet	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

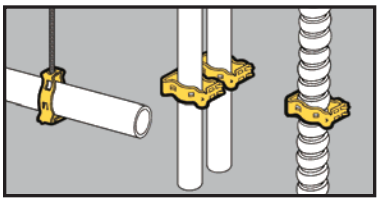










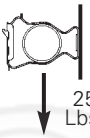


- Supports 3/8" to 2" conduit.
- Unique Guide-Rite Fastener provides for fast and easy installation with pliers.
- Now available in DURA-COPPER™ finish - add DCU to part number.
- Static Load Capacity:
  100 Lbs. - Vertical
  25 Lbs. - Horizontal

Guide-Rite™ Conduit Fasteners

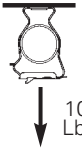


Clearance Hole For 1/4" Bolt



25 Lbs.

Static Load Capacity



100 Lbs.

UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118350	**BG-6***	3/8"	100
78101118355	**BG-8-12**	1/2", 3/4"	100
78101118360	**BG-16**	1"	100
78101118365	**BG-20**	1 1/4"	100
78101118360	**BG-24**	1 1/2"	100
78101118375	**BG-32**	2"	100

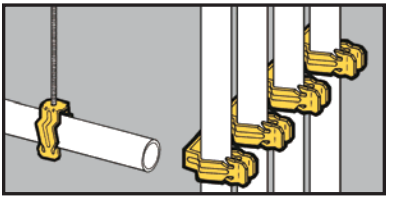


1/4"-20 Thread Impression

UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118380	**BG-6-4T***	3/8"	100
78101118385	**BG-8-12-4T**	1/2", 3/4"	100
78101118390	**BG-16-4T**	1"	100
78101118395	**BG-20-4T**	1 1/4"	100
78101118400	**BG-24-4T**	1 1/2"	100
78101118405	**BG-32-4T**	2"	100

Patent #4958792

* BG-6 and BG-6-4T will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



- Conduit easily snaps into push type fastener for secure support.
- Available with clearance hole for 1/4" bolt or 1/4"-20 thread impression.
- ***Ultimate Static Load Capacity:***
  25 Lbs. Vertical
  15 Lbs. Horizontal

Push-Type Conduit Fasteners





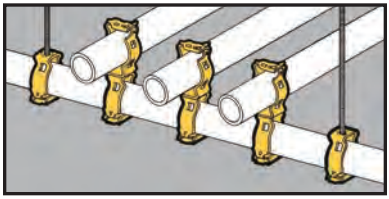
Clearance Hole
For 1/4" Bolt

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119200	**BP-8**	1/2" EMT	100
78101119205	**BP-12**	3/4" EMT 1/2" IMC, Rigid	100
78101119210	**BP-16**	1" EMT 3/4" IMC, Rigid	100



1/4"-20
Thread Impression

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119215	**BP-8-4T**	1/2" EMT	100
78101119220	**BP-12-4T**	3/4" EMT 1/2" IMC, Rigid	100
78101119225	**BP-16-4T**	1" EMT 3/4" IMC, Rigid	100



- For use with 3/8" to 2" conduit.
- Guide-Rite Fastener provides for fast and easy installation with pliers.

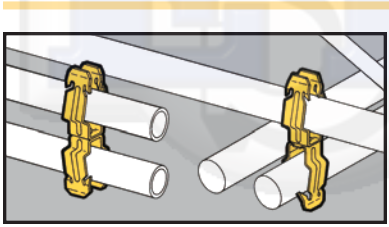


- Note: Total load of trapeze must not exceed 100 Lbs.

Guide-Rite™ Conduit Trapeze Fasteners

UPC/Part Number	Catalog Number	Conduit To 1" Trapeze	Box Qty.
78101118615	**BG-16-G-6***	3/8"	100
78101118620	**BG-16-G-8-12**	1/2", 3/4"	100
78101118595	**BG-16-G-16**	1"	100
78101118600	**BG-16-G-20**	1 1/4"	50
78101118605	**BG-16-G-24**	1 1/2"	50
78101118610	**BG-16-G-32**	2"	50

* BG-16-G-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



- An ideal spacer between conduits.
- No installation tools required.

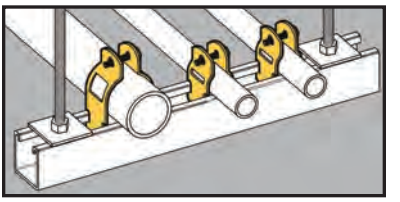


- ***Ultimate Static Load Capacity:*** 25 Lbs.

Push-Type Conduit To Conduit Fasteners

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118615	**BP-8-P-8**	1/2" to 1/2"	100
78101118620	**BP-8-P-12**	1/2" to 3/4"	100
78101118595	**BP-8-P-16**	1/2" to 1"	100
78101118600	**BP-12-P-12**	3/4" to 3/4"	100
78101118605	**BP-12-P-16**	3/4" to 1"	100
78101118610	**BP-16-P-16**	1" to 1"	100

Note: For rigid conduit with BP series, use next size larger fastener (1/2" Rigid use BP-12).

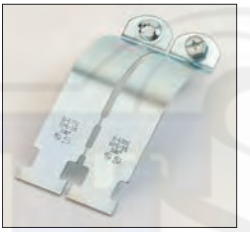


Break-Apart Conduit Clamps

- Patented Multi-Grip design fits Rigid, IMC or EMT conduit.
- Convenient break-apart clamp features retained bolt and 5/16" thread impression to eliminate handling of nuts and bolts.
- Finish: Pre-galvanized.
- Static Load Capacity: 200 lbs.

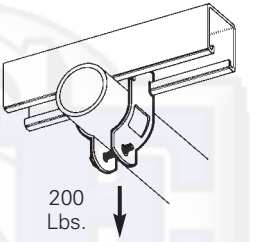


BPC-8 thru BPC-32



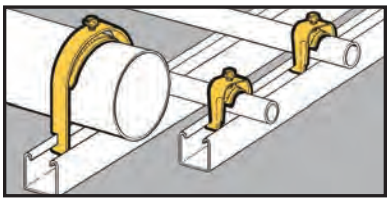
BPC-40 thru BPC-64

Static Load Capacity



UPC/Part Number	Catalog Number	Rigid or EMT Conduit Size	Box Qty.
78101101676	**BPC-8**	1/2"	100
78101101677	**BPC-12**	3/4"	100
78101101680	**BPC-16**	1"	100
78101101679	**BPC-20**	1 1/4"	50
78101101678	**BPC-24**	1 1/2"	50
78101101681	**BPC-32**	2"	50
78101103977	**BPC-40**	2 1/2"	50
78101103978	**BPC-48**	3"	50
78101103979	**BPC-56**	3 1/2"	25
78101103981	**BPC-64**	4"	25

Patent #4044428



- Attaches conduit, flexible conduit or cables to standard strut channels.
- B1506S designed to secure and support MC/AC cables.
- Unique one-piece design eliminates handling of hardware and allows easy installation and removal in side-by-side conduit runs.
- Anti-rock feature prevents clamp from disengaging during installation.
- Finish: Pre-galvanized

Conduit Strut Clamps



B1532S thru B1564S

B1506S thru B1524S



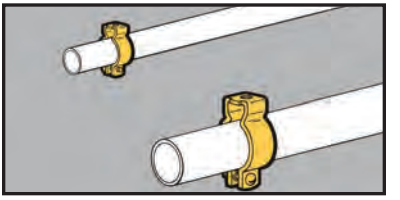


B1508 thru B1520

UPC/Part Number	Catalog Number	Conduit Size EMT	Conduit Size Rigid	OD Range Inches Min	OD Range Inches Max	Static Load Cap. Lbs.	Box Qty.
78101163150	**B1508**	1/2"	--	--	--	200	100
78101163154	**B1512**	3/4"	1/2"	--	--	200	100
78101163157	**B1516**	1"	3/4"	--	--	300	100
78101163160	**B1520**	1 1/4"	1"	--	--	300	100
Note: Clamps without saddle are not recommended for flexible conduit or cable							
78205144495	**B1506S***	3/8"*	--	.400	.630	200	100
78101163164	**B1508S**	1/2"	--	.250	.680	200	100
78101163168	**B1512S**	3/4"	1/2"	.500	.840	200	100
78101163171	**B1516S**	1"	3/4"	.750	1.050	300	100
78101163177	**B1520S**	1 1/4"	1"	1.125	1.315	300	100
78101163182	**B1524S**	1 1/2"	1 1/4"	1.375	1.660	400	50
78101163188	**B1532S**	2"	1 1/2"	1.875	2.200	400	50
78101163193	**B1534S**	--	2"	2.125	2.375	400	25
78101163199	**B1540S**	2 1/2"	2 1/2"	2.625	2.875	400	25
78101163205	**B1548S**	3"	3"	3.250	3.500	400	25
78101163211	**B1556S**	3 1/2"	3 1/2"	3.750	4.000	400	10
78101163215	**B1564S**	4"	4"	4.250	4.500	400	10

Patent #5022614

* B1506S will accept the following
AC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4
MC Cable 14/2, 14/3, 14/4, 12/2, 12/3, 12/4, 10/2, 10/3, 10/4



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Now available in DURA-COPPER™ finish - add DCU to part number.
- Finish: Zinc-Plated

Conduit Hangers



With Retained Bolt And Thread Impression

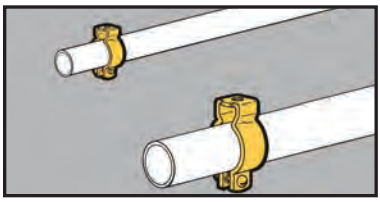
UPC/Part Number	Catalog Number	Trade Size	Conduit Size EMT	Conduit Size Rigid	Box Qty.
78101119800	**BL1400***	0	1/2"	1/2"	100
78101119801	**BL1410***	1	3/4"	3/4"	100
78101119802	**BL1420***	2	1"	1"	100



With Bolt And Nut

UPC/Part Number	Catalog Number	Trade Size	Conduit Size EMT	Conduit Size Rigid	Box Qty.
78101119803	**BL1425***	2.5	1 1/4"	–	100
78101119804	**BL1430***	3	1 1/2"	1 1/4"	100
78101119805	**BL1440†**	4	–	1 1/2"	50
78101119806	**BL1450†**	5	2"	2"	50
78101119807	**BL1460†**	6	2 1/2"	2 1/2"	25
78101119808	**BL1470†**	7	3"	3"	25
78101119809	**BL1480†**	8	3 1/2"	3 1/2"	10
78101119810	**BL1490†**	9	4"	4"	10

* 9/32" mounting hole. † 11/32" mounting hole.



- For use with 1/2" thru 4" Conduit.
- Static Load Capacity: 400 lbs.
- Material: Type 304 Stainless Steel

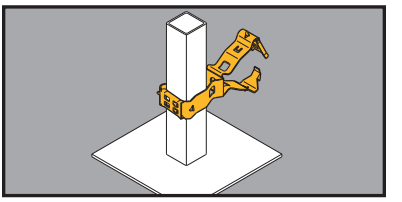
Stainless Steel Conduit Hangers



With Bolt And Nut

UPC/Part Number	Catalog Number	Trade Size	Conduit Size EMT	Conduit Size Rigid	Box Qty.
78101119800	**BL1400-SS4***	0	1/2"	1/2"	100
78101119801	**BL1410-SS4***	1	3/4"	3/4"	100
78101119802	**BL1420-SS4***	2	1"	1"	100
78101119803	**BL1425-SS4***	2.5	1 1/4"	–	100
78101119804	**BL1430-SS4***	3	1 1/2"	1 1/4"	100
78101119805	**BL1440-SS4†**	4	–	1 1/2"	50
78101119806	**BL1450-SS4†**	5	2"	2"	50
78101119807	**BL1460-SS4†**	6	2 1/2"	2 1/2"	25
78101119808	**BL1470-SS4†**	7	3"	3"	25
78101119809	**BL1480-SS4†**	8	3 1/2"	3 1/2"	10
78101119810	**BL1490-SS4†**	9	4"	4"	10

* 9/32" mounting hole. † 11/32" mounting hole.



- Supports conduit from square computer floor pedestals.
- Unique Guide-Rite Fastener provides for fast and easy installation with pliers.
- Static Load Capacity: 25 lbs.

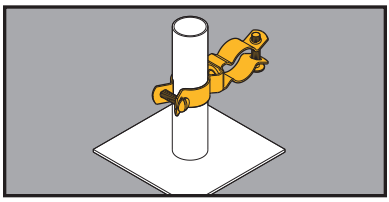
Guide-Rite™ Conduit To Pedestal Support



UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78205125589	**BG-8-12-G6***	3/8″	100
78101188538	**BG-8-12-G812**	1/2″ or 3/4″	100
78101118620	**BG-16-G-8-12**	1″	100
78205125594	**BG-8-12-G20**	1 1/4″	50
78205125595	**BG-8-12-G24**	1 1/2″	50
78205125597	**BG-8-12-G32**	2″	50

Patent #4958792

* BG-8-12-G6 will accept the following range ∅.420 - ∅.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

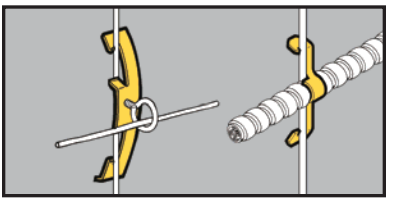


Conduit To Pedestal Support

- Supports conduit from 1" O.D. computer floor pedestals.
- Also available in Type 304 Stainless Steel. Contact factory for details.
- Static Load Capacity: 25 lbs.
- Finish: Zinc-Plated



UPC/Part Number	Catalog Number	Trade Size	Conduit Size Rigid	Conduit Size EMT	Box Qty.
78205125599	**BL1410-L1400**	0	1/2"	1/2"	50
78205125601	**BL1410-L1410**	1	3/4"	3/4"	50
78205125602	**BL1410-L1420**	2	1"	1"	50
78205125603	**BL1410-L1425**	2.5	–	1 1/4"	50
78205125607	**BL1410-L1430**	3	1 1/4"	1 1/2"	50
78205125612	**BL1410-L1440**	4	1 1/2"	–	25
78205125614	**BL1410-L1450**	5	2"	2"	25
78205125617	**BL1410-L1460**	6	2 1/2"	2 1/2"	10
78205125618	**BL1410-L1470**	7	3"	3"	10
78205125619	**BL1410-L1480**	8	3 1/2"	3 1/2"	5

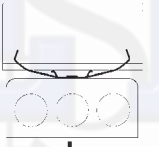


Rod & Wire Fasteners

- BW2 and BW6 support #10-24 or 1/4"-20 threaded bridle rings and provide attachment for electrical boxes.
- BW2S & BW6S are provided with one each 1/4"-20 x 3/8" screw and hex nut.
- BW4 supports cables from #12 thru #8 wire.

UPC/Part Number	Catalog Number	Drop Rod/ Wire Size	Flange Thickness	Box Qty.
78101119700	**BW2**	#12 wire thru 1/4" plain or threaded rod	1/8" - 3/8"	100
78205140156	**BW2S**	#12 wire thru 1/4" plain or threaded rod	1/8" - 3/8"	100
78101195516	**BW6**	3/8" plain or threaded rod	3/8" - 7/16"	100
78205140157	**BW6S**	3/8" plain or threaded rod	3/8" - 7/16"	100





Static Load Capacity



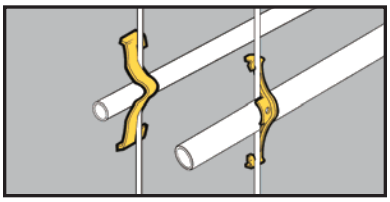
UPC/Part Number	Catalog Number	Description	Box Qty.
78101119705	**BW4**	Multi-size Wire Fastener	100



MC/AC Cable Size	#12 Wire	#10 Wire	#8 & #9 Wire
14/2 Cable	BW4	BW4	BW4
14/3 Cable	BW4	BW4	BW4
12/2 Cable	BW4	BW4	BW4
12/3 Cable	BW4	BW-8	BW-8

BW4 is designed for positioning only. No load rating.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.



- See BX8 and BX18 for a better solution.
- Attaches conduit to wire rods or flanges.
- Can be used for flexible metallic tubing or armored cable.

Rod & Wire Fasteners

BW-8



BW-16



UPC/Part Number	Catalog Number	Box Qty.
78101119710	**BW-8**	100
78101119715	**BW-12**	100
78101119720	**BW-16**	100
78101119725	**BW-20**	100

Conduit Size	#10 & #12 Wire	#8 & #9 Wire	3/16" & 1/4" Rod	1/8" to 1/4" Flange	5/16" to 3/8" Flange	7/16" to 1/2" Flange
1/2" EMT	BW-8	BW-8	BW-8	BW-8	BW-12	BW-12
1/2" Rigid	BW-8	BW-12	BW-12	BW-12	BW-12	BW-16
3/4" EMT	BW-12	BW-12	BW-12	BW-12	BW-16	BW-16
3/4" Rigid	BW-12	BW-12	BW-16	BW-16	BW-20*	BW-20*
1" EMT	—	BW-16	BW-16	BW-16	BW-20*	BW-20*
1" Rigid	—	—	—	BW-20*	BW-20*	BW-20*
1 1/4" EMT	—	BW-20	BW-20	BW-20	—	—

*Note: For horizontal applications only.

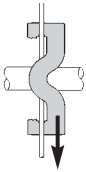
Static Load Capacity

Vertical Flange



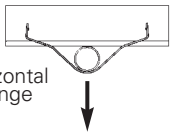
25 Lbs.

Vertical Wire or Rod



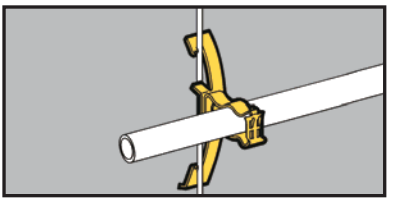
50 Lbs.

Horizontal Flange



100 Lbs.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.



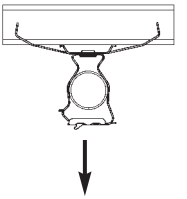
- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

Guide-Rite™ Conduit To Rod Fasteners

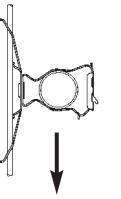


UPC/Part Number	Catalog Number	Conduit Size EMT/Rigid	Box Qty.
78101118540	**BG-8-12-W2**	1/2", 3/4"	100
78101118640	**BG-16-W2**	1"	100
78101195519	**BG-8-12-W6**	1/2", 3/4"	100
78101195520	**BG-16-W6**	1"	100

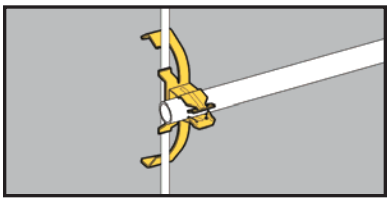
Patent #4958792



Static Load Capacity



Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

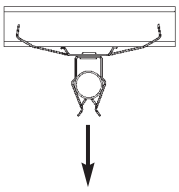


- Assemblies support 1/2", 3/4" and 1" conduit.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

Push-Type Conduit To Rod Fasteners

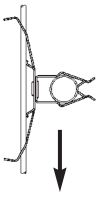


UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119325	**BP-8-W2**	1/2" EMT	100
78101119420	**BP-12-W2**	3/4" EMT or 1/2" IMC. Rigid	100
78101119505	**BP-16-W2**	1" EMT or 3/4" IMC, Rigid	100
78101195521	**BP-8-W6**	1/2" EMT	100
78101195522	**BP-12-W6**	3/4" EMT or 1/2" IMC. Rigid	100
78101195523	**BP-16-W6**	1" EMT or 3/4" IMC, Rigid	100



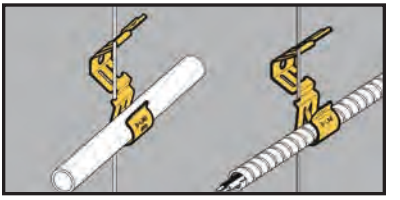
25 Lbs.

Ultimate Static Load Capacity



15 Lbs.

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

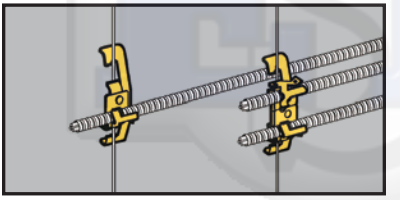


Flex-Rite™ Cable/Conduit To Wire Fasteners



- Can be used in place of batwings.
- Will not bend or deform hanger wire.
- Attaches to #12 - #8 wire and 1/4" plain rod.
- Accommodates MC, AC, 3/8" FMC or 1/2" EMT.
- Cable can be installed before or after attachment to wire.
- Static Load Capacity:
  BX-8 - 20 Lbs.
  BX-18 - 30 Lbs.

UPC/Part Number	Catalog Number	Cable/Conduit Size	Box Qty.
78101101402	**BX-8**	.375" to 706" O.D.	100
78101102943	**BX-18**	.706" to 1.380" O.D.	100
78101101685	**BX-8B**	Bulk Packed In Fiber Barrels	4000



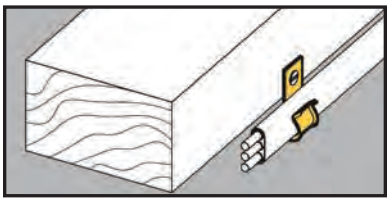
Cable To Rod Fasteners



BX4-W2 BX4M-W2

- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8 FMC.
- W2 series attaches to 1/8" thru 3/8" flanges or #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101219	**BX4-W2**	Single Runs	100
78101101189	**BX4M-W2**	Double Runs	100
78101195517	**BX4-W6**	Single Runs	100
78101195518	**BX4M-W6**	Double Runs	100

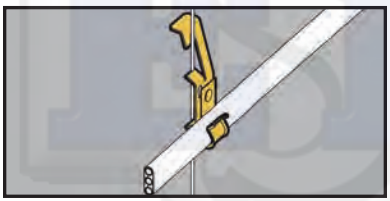


Cable Fasteners

- Attaches Type NM cable to most structures.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- May be used with other B-Line fasteners for attachment to acoustical tees, beams, drop wires, etc.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101103553	**BRC3**	Type NM Cable Fastener	100



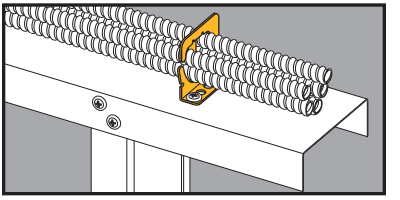
Cable Fasteners

- Supports cable sizes 14/2 and 12/2 with ground wire.
- W2 series supports cable from #12 wire thru 1/4" plain or threaded rod.
- W6 series supports cable from 3/8" plain or threaded rod.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101103547	**BRC3-W2**	Type NM Cable To Wire Fastener	100
78101195524	**BRC3-W6**	Type NM Cable To Wire Fastener	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Multi-Run Cable Carrier for MC/AC Cable

- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Compatible with new BCH-HBA for multi tier assemblies.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated



BRC5-1

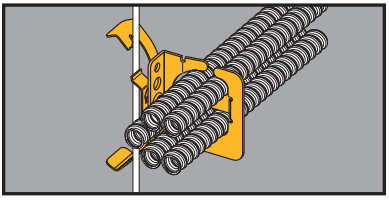


BRC5-2



BRC5-3

UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
78205143593	**BRC5-1**	.430″ to .560″ Up To 4 Runs	50
78205143594	**BRC5-2**	.430″ to .560″ Up To 9 Runs	50
78205143595	**BRC5-3**	.560″ to .690″ Up To 7 Runs	50



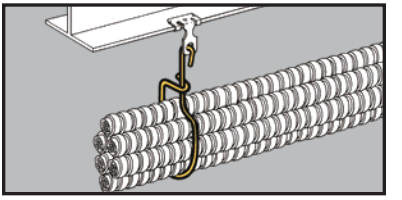
Multi-Run Cable Carrier for MC/AC Cable

- Secures and supports multiple runs of MC/AC cable as required by the NEC.
- W2 Series attaches to 1/8" thru 3/8" flanges or #12 thru 1/4" plain or threaded rod.
- W6 Series attaches to 3/8" thru 7/16" flanges or 3/8" plain or threaded rod.
- Load Capacity: 50 lbs.
- Finish: Zinc Plated



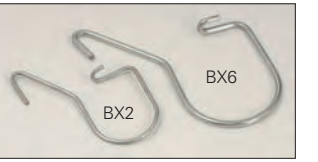
UPC/Part Number	Catalog Number	Cable Diameter & Number Of Runs	Box Qty.
78205144075	**BRC51-W2**	.430" to .560" Up To 4 Runs	25
78205144076	**BRC52-W2**	.430" to .560" Up To 9 Runs	25
78205144077	**BRC53-W2**	.560" to .690" Up To 7 Runs	25
78205144078	**BRC51-W6**	.430" to .560" Up To 4 Runs	25
78205144079	**BRC52-W6**	.430" to .560" Up To 9 Runs	25
78205144080	**BRC53-W6**	.560" to .690" Up To 7 Runs	25

Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

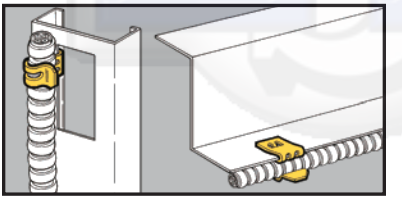


- Designed to support multiple runs of MC, AC, FMC or communication cable.
- Static Load Capacity:
  BX2 - 50 lbs.
  BX6 & BX24 - 75 Lbs.
- Finish: Zinc Plated

Flexible Cable Support



UPC/Part Number	Catalog Number	Description	Box Qty.
78205104934	**BX2**	Usable Area = 2 sq. in.	100
78205119765	**BX6**	Usable Area = 4 sq. in.	100
78205119766	**BX24**	Usable Area = 13 sq. in.	100

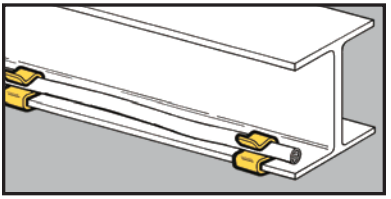


- Fastens flexible conduit and other small cables to beam flanges, bar joists or metal studs.
- Cable O.D. range of 0.42" to 0.70".
- Maximum flange thickness 5/32".

Flexible Conduit/ Cable Fasteners

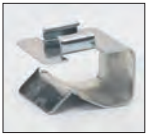


UPC/Part Number	Catalog Number	Description	Box Qty.
78101119770	**BX9**	Flexible Conduit Fastener	100

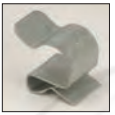


- Secures cable along flanges 1/16" to 3/4" thick.
- The BFA flange adapters attach BXS series to thicker flanges.
- BX_-67 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX_-1011 accepts 14/2, 12/2 & 10/2 romex with ground.
- BX_-1214 accepts 10/3, romex with ground.
- Finish: Zinc Plated

Flexible Conduit/ Cable Fasteners



BFA Series (For Use with BXS Series Only)



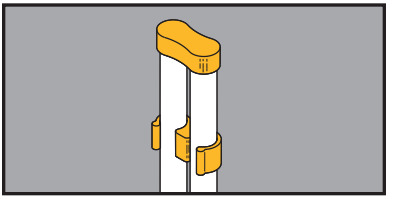
BXS Series



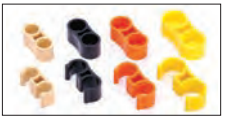
BXL Series

UPC/Part Number	Catalog Number	Flange Thickness	Cable Diameter	Box Qty.
78101119973	**BXS-67**	1/16" - 5/32"	.218 to .281	100
78101119974	**BXS-89**	1/16" - 5/32"	.290 to .375	100
78101119975	**BXS-1011**	1/16" - 5/32"	.375 to .437	100
78101119976	**BXS-1214**	1/16" - 5/32"	.444 to .560	100
78101119977	**BXS-1519**	1/16" - 5/32"	.500 to .718	100
78101119978	**BXS-2024**	1/16" - 5/32"	.748 to .945	100
78101119979	**BXS-2530**	1/16" - 5/32"	.968 to 1.250	100
78101119980	**BXM-67**	5/32" - 9/32"	.218 to .281	100
78101119981	**BXM-89**	5/32" - 9/32"	.290 to .375	100
78101119982	**BXM-1011**	5/32" - 9/32"	.375 to .437	100
78101119983	**BXM-1214**	5/32" - 9/32"	.444 to .560	100
78101119984	**BXM-1519**	5/32" - 9/32"	.500 to .718	100
78101119985	**BXM-2024**	5/32" - 9/32"	.748 to .945	100
78101119986	**BXM-2530**	5/32" - 9/32"	.968 to 1.250	100
78101119987	**BXL-67**	5/16" - 1/2"	.218 to .281	100
78101119988	**BXL-89**	5/16" - 1/2"	.290 to .375	100
78101119989	**BXL-1011**	5/16" - 1/2"	.375 to .437	100
78101119990	**BXL-1214**	5/16" - 1/2"	.444 to .560	100
78101119991	**BXL-1519**	5/16" - 1/2"	.500 to .718	100
78101119992	**BXL-2024**	5/16" - 1/2"	.748 to .945	100
78101119993	**BXL-2530**	5/16" - 1/2"	.968 to 1.250	100
78101119955	**BFA-1215**	1/2" - 5/8"	–	100
78101119956	**BFA-1520**	5/8" - 3/4"	–	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Conduit Quick Caps & Spacers



BCS & BES
8 & 8C thru 16 & 16C



BCS 18, 18C, 20, & 20C

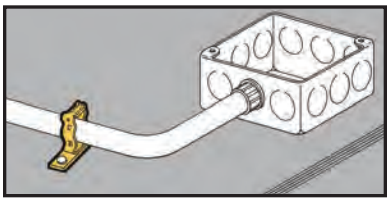


BCS 12AS & 16AS

- Quick caps and spacers eliminate the time consuming method of duct taping conduit stubs.
- Quick spacers are designed to separate and secure conduit during concrete pours.
- Quick caps maintain spacing and keep conduit free from dirt and debris.
- Quick caps and spacers properly space conduit for any 4" square box.
- Available in EMT & Rigid conduit sizes.

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
Conduit Spacer			
78205122356	**BCS-8**	1/2" Rigid Conduit	50
78205140057	**BES-8**	1/2" EMT Conduit	50
78205122357	**BCS-12**	3/4" Rigid Conduit	50
78205140058	**BES-12**	3/4" EMT Conduit	50
78205122358	**BCS-16**	1" Rigid Conduit	50
78205140059	**BES-16**	1" EMT Conduit	50
79903855806	**BCS-18**	1 1/2" Rigid Conduit	25
79903855807	**BCS-20**	2" Rigid Conduit	25
Conduit Cap			
78205122359	**BCS-8C**	1/2" Rigid Conduit	50
78205140060	**BES-8C**	1/2" EMT Conduit	50
78205122361	**BCS-12C**	3/4" Rigid Conduit	50
78205140061	**BES-12C**	3/4" EMT Conduit	50
78205122362	**BCS-16C**	1" Rigid Conduit	50
78205140062	**BES-16C**	1" EMT Conduit	50
79903855803	**BCS-18C**	1 1/2" Rigid Conduit	25
79903855805	**BCS-20C**	2" Rigid Conduit	25
Conduit Spacer			
79903855808	**BCS-12AS**	3/4" Rigid Conduit	50
79903855809	**BCS-16AS**	1" Rigid Conduit	25

Patent #5896892



Conduit Spacer Brackets

- Eliminates the need for offset bends when used with 1 1/2" deep boxes.
- Attaches conduit to concrete, steel or wood with nails.
- May be attached after conduit positioning.

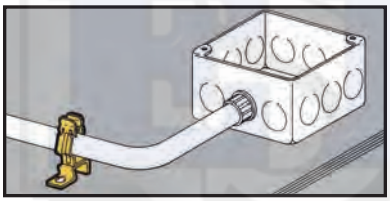
BG





BP

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118495 Patent # 4958792	**BG-8-12-D3**	1/2" or 3/4"	100
78101119265	**BP-8-D3**	1/2" EMT	100
78101118365	**BP-12-D3**	3/4" EMT or 1/2" IMC, Rigid	100



Conduit Spacer Brackets

- Eliminates the need for offset bends when used with 2 1/8" deep boxes.
- Provides secure support between conduit and deck.
- D4 Series is easily installed with screw gun or powder actuated tools.
- Allows for complete conduit layout prior to anchoring.

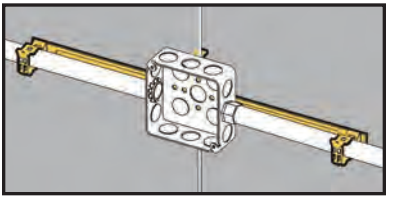
BG





BP

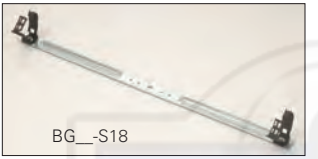
UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118500 Patent # 4958792	**BG-8-12-D4**	1/2" or 3/4"	100
78101119270	**BP-8-D4**	1/2" EMT	100
78101119370	**BP-12-D4**	3/4" EMT or 1/2" IMC, Rigid	100
78101119460	**BP-16-D4**	1" EMT or 3/4" IMC, Rigid	100

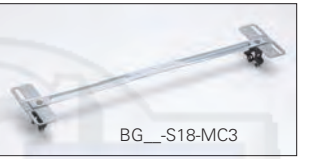


Guide-Rite™ Conduit & Box Support Fasteners

- See pages Ruff-IN™ brochure for pre-fab box assemblies.

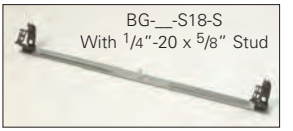
- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.





UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
78101103575	**BG6-S18 ***	3/8″	25
78101103573	**BG812-S18**	1/2″ or 3/4″	25
78101103574	**BG16-S18**	1″	25
With Multiple Conduit Plate			
78205152812	**BG6-S18-MC3 ***	3/8″	25
78205152900	**BG812-S18-MC3**	1/2″ or 3/4″	25
78205152901	**BG16-S18-MC3**	1″	25

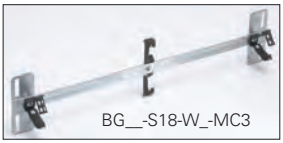
Patent # 4958792



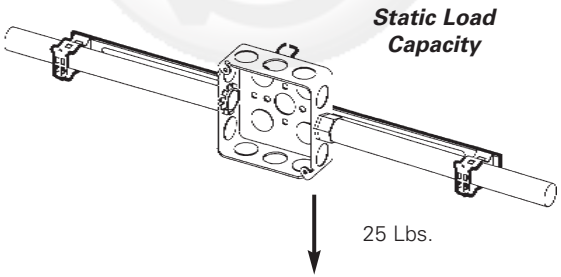


With Stud			
78205152902	**BG6-S18S ***	3/8″	25
78110104979	**BG812-S18S**	1/2″ or 3/4″	25
78205152903	**BG16-S18S**	1″	25
With Stud & Multiple Conduit Plate			
78205152904	**BG6-S18S-MC3 ***	3/8″	25
78205152905	**BG812-S18S-MC3**	1/2″ or 3/4″	25
78205152906	**BG16-S18S-MC3**	1″	25



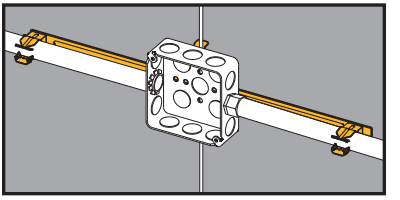


UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Box Qty.
W2 Series for #12 thru 1/4" Rod **			
78101103578	**BG6-S18-W2 ***	3/8"	25
78101103577	**BG812-S18-W2**	1/2" or 3/4"	25
78101103577	**BG16-S18-W2**	1"	25
W2 Series for #12 thru 1/4" Rod & Multiple Conduit Plate **			
78205152855	**BG6-S18-W2-MC3 ***	3/8"	25
78205152739	**BG812-S18-W2-MC3**	1/2" or 3/4"	25
78205152862	**BG16-S18-W2-MC3**	1"	25
W6 Series for 3/8" Plain or Threaded Rod **			
78110199581	**BG6-S18-W6 ***	3/8"	25
78110199582	**BG812-S18-W6**	1/2" or 3/4"	25
78110199580	**BG16-S18-W6**	1"	25
W6 Series for 3/8" Plain or Threaded Rod & Multiple Conduit Plate **			
78205152856	**BG6-S18-W6-MC3 ***	3/8"	25
78205152860	**BG812-S18-W6-MC3**	1/2" or 3/4"	25
78205152864	**BG16-S18-W6-MC3**	1"	25



* BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit

** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.



Push-Type Conduit & Box Support Fasteners

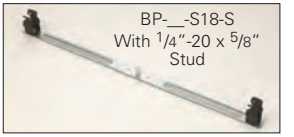
- See pages Ruff-IN™ brochure for pre-fab box assemblies.

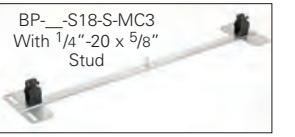
- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly provides support for electrical boxes and conduit runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Assemblies using BMC3 plate include center conduit clip. Additional conduit clips may be purchased separately.


BP__-S18

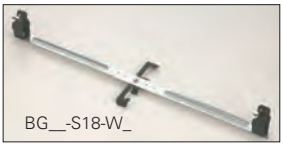

BP__-S18-MC3

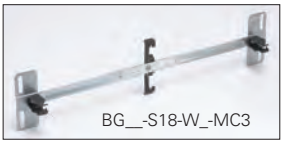
UPC/Part Number	Catalog Number	Conduit Size E(EMT) R(Rigid)	Box Qty.
78205123604	**BP8-S18**	1/2" E	25
78205123605	**BP12-S18**	3/4" E or 1/2" R	25
78205123606	**BP16-S18**	1"E, 3/4" R	25
With Multiple Conduit Plate			
78205152907	**BP8-S18-MC3**	1/2" E	25
78205152908	**BP12-S18-MC3**	3/4" E or 1/2" R	25
78205152909	**BP16-S18-MC3**	1"E, 3/4" R	25


BP-__-S18-S
With 1/4"-20 x 5/8" Stud

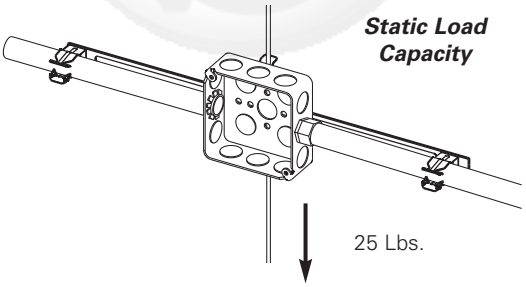

BP-__-S18-S-MC3
With 1/4"-20 x 5/8" Stud

With Stud			
78205123631	**BP8-S18S**	1/2" E	25
78205123633	**BP12-S18S**	3/4" E or 1/2" R	25
78205123634	**BP16-S18S**	1"E, 3/4" R	25
With Stud & Multiple Conduit Plate			
78205152913	**BP8-S18S-MC3**	1/2" E	25
78205152914	**BP12-S18S-MC3**	3/4" E or 1/2" R	25
78205152915	**BP16-S18S-MC3**	1"E, 3/4" R	25

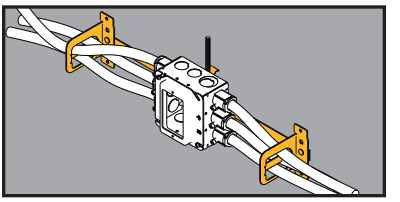

BG__-S18-W_


BG__-S18-W_-MC3

UPC/Part Number	Catalog Number	Conduit Size E(EMT) R(Rigid)	Box Qty.
W2 Series for #12 thru 1/4" Rod **			
78205123615	**BP8-S18-W2**	1/2" EMT	25
78205123619	**BP12-S18-W2**	3/4" E or 1/2" R	25
78205123627	**BP16-S18-W2**	1"E, 3/4" R	25
W2 Series for #12 thru 1/4" Rod & Multiple Conduit Plate **			
78205152847	**BP8-S18-W2-MC3**	1/2" EMT	25
78205152848	**BP12-S18-W2-MC3**	3/4" E or 1/2" R	25
78205152849	**BP16-S18-W2-MC3**	1"E, 3/4" R	25
W6 Series for 3/8" Plain or Threaded Rod **			
78205123628	**BP8-S18-W6**	1/2" EMT	25
78205123629	**BP12-S18-W6**	3/4" E or 1/2" R	25
78205123630	**BP16-S18-W6**	1"E, 3/4" R	25
W6 Series for 3/8" Plain or Threaded Rod & Multiple Conduit Plate **			
78205152850	**BP8-S18-W6-MC3**	1/2" EMT	25
78205152851	**BP12-S18-W6-MC3**	3/4" E or 1/2" R	25
78205152854	**BP16-S18-W6-MC3**	1"E, 3/4" R	25



****** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.



Multi-Run Cable Carrier & Box Support Fasteners

- Riveted assembly provides support for electrical boxes and cable runs on either side of the box.
- Reduces drop wires by 66% when using W2/W6 assemblies.
- Cable retension tab is open for easy loading and contains the cables when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.



BRC5_-S18

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78205152916	**BRC51-S18**	Up to 4 runs .430" - .560"	25
78205152918	**BRC53-S18**	Up to 7 runs .560" - .690"	25



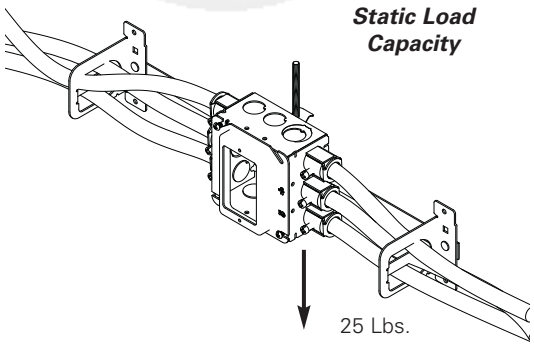
BRC5_-S18-S
With 1/4"-20 x 5/8" Stud

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
With Stud			
78205152919	**BRC51-S18S**	Up to 4 runs .430" - .560"	25
78205152921	**BRC53-S18S**	Up to 7 runs .560" - .690"	25



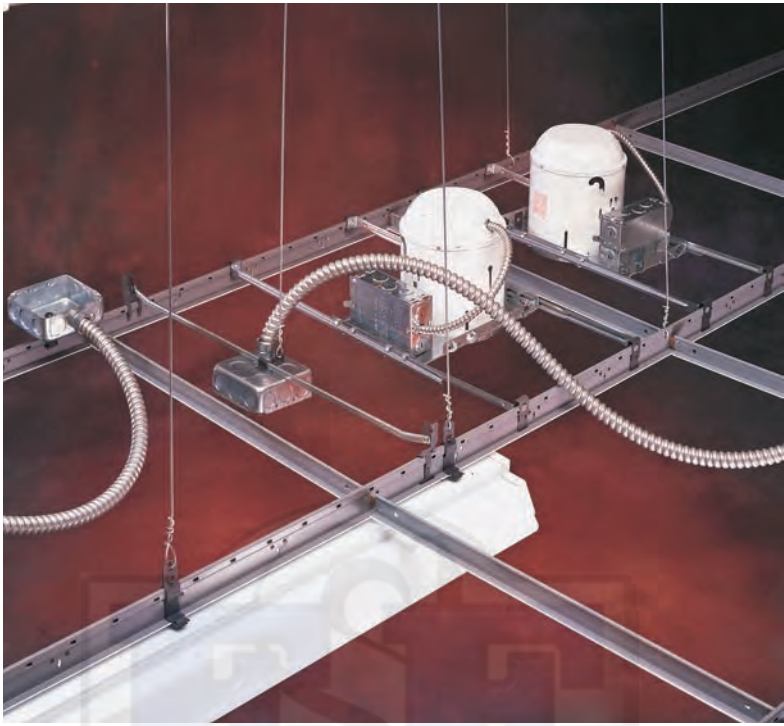
UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
W2 Series for #12 thru 1/4" Rod **			
78205152865	**BRC51-S18-W2**	Up to 4 runs .430" - .560"	25
78205152869	**BRC53-S18-W2**	Up to 7 runs .560" - .690"	25

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
W6 Series for 3/8" Plain or Threaded Rod **			
78205152866	**BRC51-S18-W6**	Up to 4 runs .430" - .560"	25
78205152870	**BRC53-S18-W6**	Up to 7 runs .560" - .690"	25



****** Note: An independent means of support is required by NEC Article 300.11. Refer to pages 225-226 for additional support methods.

Acoustical Tee

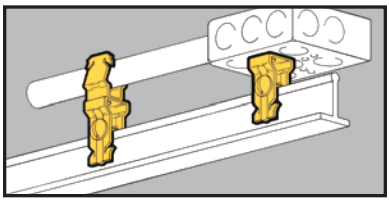










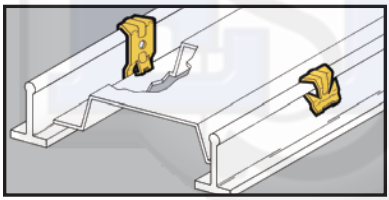


- Attaches to top of acoustical T-Bar with 1/4"-20 screw.
- Has 1/4"-20 thread impression for attachment to box or conduit fastener.
- **Warning:** Do not use for hanging acoustical tee.

T-Bar Support Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118090	**BA14**	T-Bar Support Clip	100



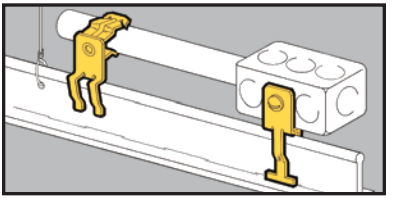
- Gives positive support for troffers and lay-in fixtures.
- Complies with NEC Article 410.16(C) for fixtures supported by suspended ceilings.
- Fits rectangular or round head T-Bars.
- Commonly known as "Hurricane Clip".

Troffer Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118095	**BA15**	For Straight Lip or Upturned Lip Fixtures	100

Acoustical Tee



- A positive method for supporting vertical boxes, conduit or cable above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

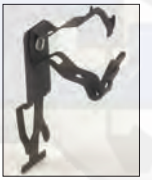
Side Mount T-Bar Fasteners

BA5-4T



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118095	**BA5-4T**	With 1/4"-20 Thread Impression	100

BG Series

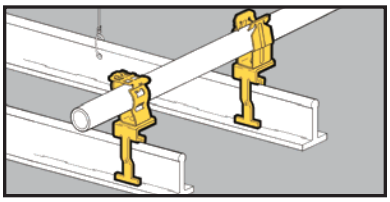


BP Series



UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101118410	**BG-6-A5** *	3/8"	100
78101118465	**BG-8-12-A5**	1/2", 3/4"	100
78101118545	**BG-16-A5**	1"	100
Patent #4958792			
78101119235	**BP-8-A5**	1/2" EMT	100
78101119335	**BP-12-A5**	3/4" EMT 1/2" IMC, Rigid	100
78101118545	**BP-16-A5**	1"EMT 3/4" IMC, Rigid	100

* BG-6 will accept the following range Ø.420 - Ø.675:
14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit



- A positive method for supporting horizontal boxes or conduit above T-Bar.
- Allows conduit to clear drop wires.
- **Warning:** Do not use for hanging acoustical tee.

Top Mount T-Bar Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118125	**BA6-4T**	With 1/4"-20 Thread Impression	100

BG Series

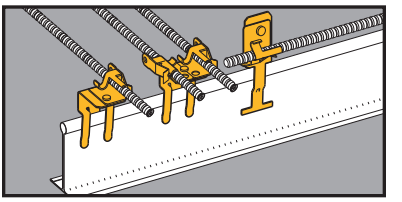




BP Series

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101188540	**BG-6-A6** *	3/8"	100
78101118470	**BG-8-12-A6**	1/2", 3/4"	100
78101118550	**BG-16-A6**	1"	100
Patent #4958792			
78101119240	**BP-8-A6**	1/2" EMT	100
78101119340	**BP-12-A6**	3/4" EMT 1/2" IMC, Rigid	100
78101119435	**BP-16-A6**	1"EMT 3/4" IMC, Rigid	100

* BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16" or 3/8" flexible conduit



- A positive method for supporting cable or flexible conduit above T-Bar.
- Assemblies support MC, AC, sizes 14/2 through 10/3 or 3/8" FMC.

Top Mount T-Bar Fasteners

BX4-A6





BX4M-A6

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101220	**BX4-A6**	Single Runs	100
78101101216	**BX4M-A6**	Double Runs	100

Note: Fasteners will rotate 360°.

BX4-A5

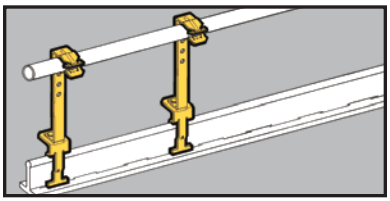




BX4M-A5

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101187	**BX4-A5**	Single Runs	100
78101101211	**BX4M-A5**	Double Runs	100

Note: Fasteners will rotate 360°.



- Supports conduit and electrical boxes above T-Bar.
- Height adjusts from 4 1/4" to 7 1/4".
- Conduit fasteners can be attached at 3/4" increments.
- BX4M-A28 supports cable or FMC above T-Bar.

Support Fasteners



BA28



BX4M-A28

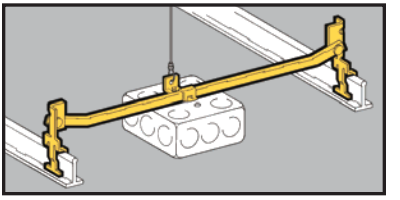
UPC/Part Number	Catalog Number	Description	Box Qty.
78101118115	**BA28**	1/2" Holes Allow for Adjustment Between 4 1/4" and 7 1/4" at 3/4" Increments	50
78101101211	**BX4M-A28**	Double Runs MC. AC, or FMC	25



BP-12-A28

UPC/Part Number	Catalog Number	Conduit Size	Box Qty.
78101119230	**BP-8-A28**	1/2" EMT	100
78101119330	**BP-12-A28**	3/4" EMT 1/2" IMC, Rigid	100
78101119425	**BP-16-A28**	1" EMT 3/4" IMC, Rigid	100

Note: Adjustable BP Conduit Fastener is attached with screw in 7 1/4" top hole position.



Electrical Box T-Bar Fasteners

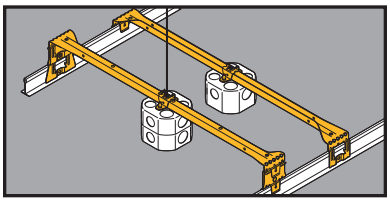


- See BA50 for a stronger, more cost effective solution.
- Supports octagonal or square boxes.
- Allows for flush mounting or 3/4" offset for plaster ring.
- One BB27 box mounting clip with screw included with each hanger.
- Load Capacity: 20 lbs.
- For additional support, attach dropwire to BB27 box mounting clip.
- **Warning:** Do not use for hanging acoustical tee.

UPC/Part Number	Catalog Number	Description	Box Qty.
78101118080	**BA12**	Box Hanger 24" Span	50
78101118082	**BA12-12**	Box Hanger 12" Span	50
78101118085	**BA120**	Box Hanger 20" Span	50
78101118087	**BA130**	Box Hanger 30" Span	50



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118170	**BB27**	Box Mounting Clip (with Screw)	100
78101101673	**SRHMS1/4x3/8**	1/4"-20 x 3/8" Slotted Round Head Machine Screw	50

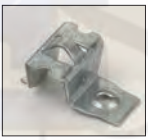


Heavy Duty Electrical Box Hanger

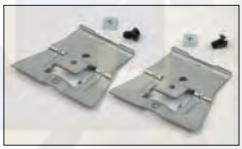
- Supports octagonal or square boxes on 24" span.
- Bendable ends mount 1 1/2" or 2 1/8" deep boxes without tools.
- Self-centering feature positions box on center.
- Includes BA50C4T Box Mounting Clip.
- Ultimate Static Load Capacity: 50 Lbs. (without dedicated dropwire)
- Static Load Capacity: 70 Lbs. (with dedicated dropwire) 35 Lbs. Canada
- Finish: Pre-galvanized
- See Ruff-IN™ brochure for pre-fab box assemblies.







BA50C3T & BA50C4T

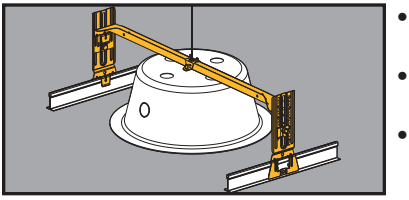


BA50E

UPC/Part Number	Catalog Number	Description	Box Qty.
78101196490	**BA50**	Box Hanger	25
78205135905	**BA50CAN** *	Box Hanger	25
78101196491	**BA50D**	Box Hanger for Box with 1 1/2" Extension	25
78205135906	**BA50DCAN** *	Box Hanger Box with 1 1/2" Extension	25
78205136570	**BA50C4T**	Box Mounting Clip with Hardware	25
78205136571	**BA50C3T** *	Box Mounting Clip with Hardware	25
78101196489	**BA50E**	Extender Brackets with Hardware	10 pair

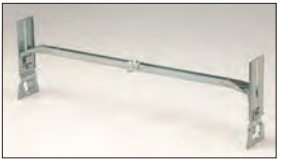
* Canada Only

Acoustical Tee



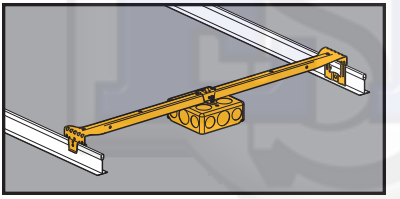
- Adjustable box support for suspended ceilings.
- Accomodates heights up to 8 3/4".
- Integral ruler enables height adjustments without measuring.

Adjustable Box Support



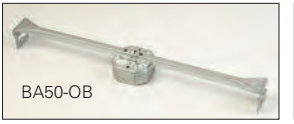
- Ideal for installation of speaker cases, emergency light fixtures, etc. in suspended ceilings.
- Static Load Capacity:
  25 Lbs. without dedicated dropwire
  70 Lbs. with dedicated dropwire
  35 Lbs. (Canada) with dedicated dropwire
- See Ruff-IN™ brochure for pre-fab box assemblies.

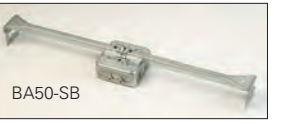
UPC/Part Number	Catalog Number	Description	Box Qty.
78205118460	**BA50A**	Adjustable Box Hanger T-Bar	10



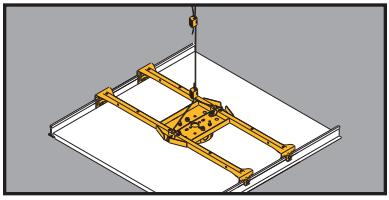
Electrical Box T-Bar Fasteners

- Pre-assembled T-Bar fasteners speed installation.
- Boxes have 1/2" and 3/4" knockouts.
- Loading not to exceed 50 lbs. in U.S.A. without independent support. 35 Lbs. in Canada
- 24" span

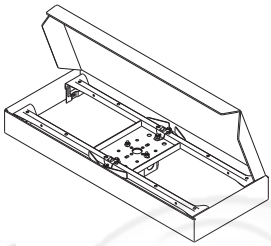




UPC/Part Number	Catalog Number	Description	Box Qty.
78205124855	**BA50-OB-24**	1 1/2" Deep Box to T-Bar Fastener	10
78205124856	**BA50-OB-34**	2 1/8" Deep Box to T-Bar Fastener	10
78205124857	**BA50-SB-24**	1 1/2" Deep Box to T-Bar Fastener	10
78205150954	**BA50-SB-34**	2 1/8" Deep Box to T-Bar Fastener	10

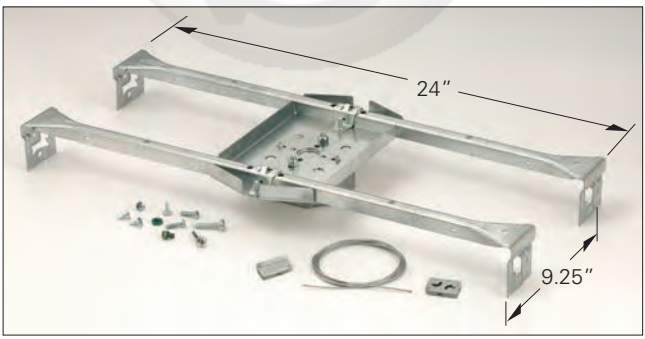


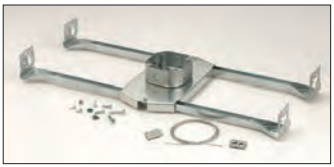
RediMount™ Fan Hanger

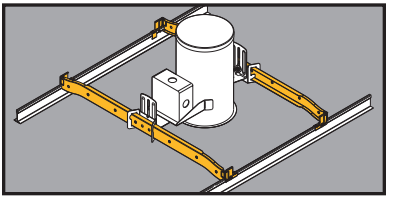


- Pre-assembled fan/ fixture hanger installs on T-Bar in less than 30 seconds.
- Positions and secures fans and fixtures in suspended ceilings.
- Includes Kwik-Wire™ cable and clamps which attach to mounting clips for easy installation.
- Recommended for use in seismic areas.
- UL Listed for fan support up to 70 lbs. or fixture support up to 90 lbs. 35 Lbs. Canada
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101196492	**BA50F**	Fan/Fixture Hanger Includes 4″ x 1 1/2″ Deep Octagon Box	1

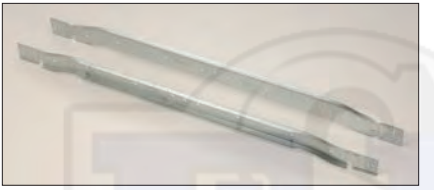






QuikFix™ Fastening System

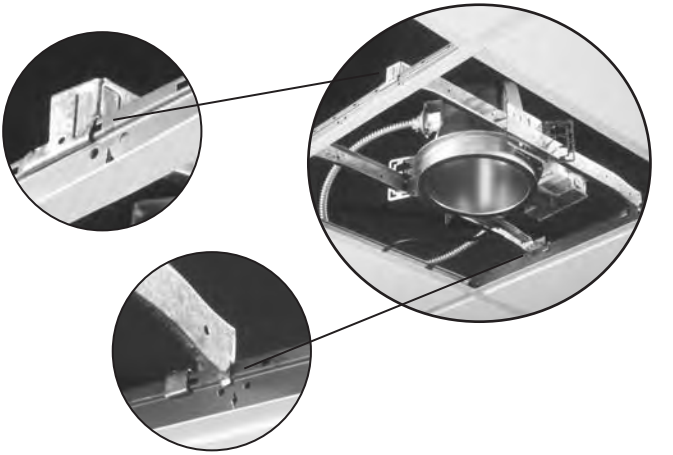
- New QuikFix™ Fastening System mounts spec grade downlights 50% faster than "wire bound" installation methods.
- QuikFix™ System is pre-sized for 24" spacing.
- No tools required.
- Recommended for use in seismic areas.
- UL listed for fixture support up to 50 lbs.

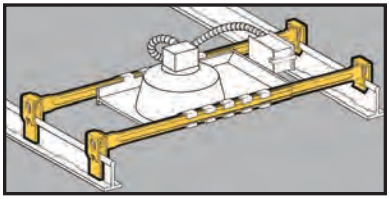


UPC/Part Number	Catalog Number	Description	Box Qty.
78205199873	**BA40**	Fixture Bar	20 pair

Patent # 6286265

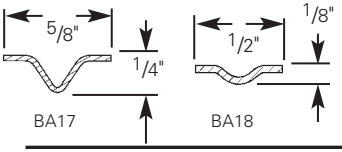
- Innovative design features offset bar hangers with integral locking tabs that secure downlights to T-Bar and prevent lifting or sliding.





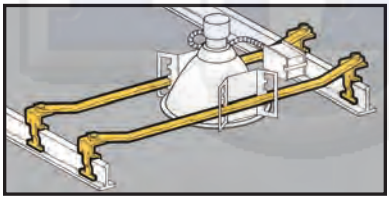
- Adjustable span from 20" to 30".
- Fits horizontal and vertical flanges.
- Fixture position is adjustable.
- No center clips or tools required.
- One set completes one fixture installation (four bars per set).

Light Fixture T-Bar Fasteners





UPC/Part Number	Catalog Number	"High Hat" Fixtures	Box Qty.
78101118100	**BA17** (Wide Bar)	CAPRI[1] R-9X, R-10C CAPR[1] R-10X CAPR[1] PR-751CX HALO®[2] H7, HALO®[2] H17 JUNO®[3] AP, APT JUNO®[3] IC, ICT, J, SC, TC THOMAS®[4] RI-IC	10 sets
78101118105	**BA18** (Narrow Bar)	CAPRI[1] HSG LIGHTOLIER®[5] 711	10 sets



- Fixture position is adjustable within the span of the hanger.
- Fixed span of 24 inches for T-Bar applications.
- Requires only a screwdriver to install.
- One set completes one fixture installation (four bars per set).

Light Fixture T-Bar Fasteners



UPC/Part Number	Catalog Number	"High Hat" Fixtures	Box Qty.
78101118110	**BA20** (Wide Bar)	Fits LIGHTOLIER®[5] CALCULITE®[5] Fixtures	10 sets

1. CAPRI is a mark used by Thomas Industries, Inc., Louisville, KY.
2. HALO® is the registered trademark of Cooper Industries, Elk Grove, IL.
3. JUNO® is the registered trademark of JUNO Lighting, Inc., Morton Grove, IL.
4. THOMAS® is the registered trademark of Thomas Industries, Inc., Louisville, KY.
5. LIGHTOLIER® and CALCULITE® are the registered trademarks of Lightolier, Inc., Secaucus, NJ.

Acoustical Tee



- Allows for independent suspension of fixtures.
- Fits most acoustical T-Bars.
- BA-4-WN wing nut included with all 1/4"-20 suspension hangers.
- Static Load Capacity: 65 Lbs.

Suspension Fasteners



BA1



BA1-T



BA1-T-BN

UPC/Part Number	Catalog Number	T-Bar Size	Stud Size	Box Qty.
78101118065	**BA1**	15/16"	1/4"-20 x 5/8"	100
78101118070	**BA1-24**	15/16"	1/4"-20 x 1 1/2"	100
78101118075	**BA1-32**	15/16"	1/4"-20 x 2"	100
78101102891	**BA1-T**	15/16"	#8-32 x 5/8" with Pal Nut	100
78101102897	**BA1-T-BN**	15/16"	#8-32 x 5/8" with Brass Nut	100

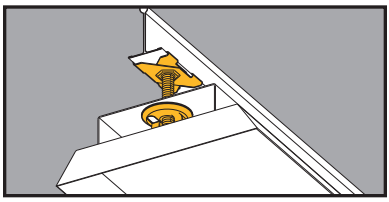
BA1-9



BA1-95



UPC/Part Number	Catalog Number	T-Bar Size	Stud Size	Box Qty.
78205125585	**BA1-9**	9/16"	1/4"-20 x 5/8"	100
78205125587	**BA1-95**	9/16" & 15/16"	1/4"-20 x 5/8"	100

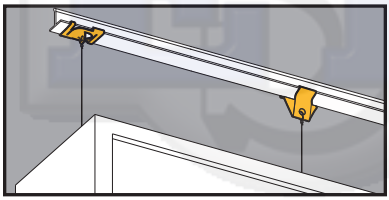


- Supports electrical fixtures from standard 15/16" T-Bars.
- BA-4-WN wing nut included.
- 1/4"-20 stud available in varying lengths.
- Static Load Capacity: 50 Lbs.

T-Bar Scissor Fasteners



UPC/Part Number	Catalog Number	Stud Length	Box Qty.
78101104258	**BAX-4-16**	5/8"	100
78101104262	**BAX-4-16-24**	1 1/2"	100
78101104263	**BAX-4-16-32**	2"	100
78101104264	**BAX-4-16-48**	3"	100



- BA-4-16-H supports signs from 15/16" T-Bar.
- BA-4-16-H1 supports signs from 9/16" or 15/16" T-Bar.
- Static Load Capacity: 40 Lbs.

Sign Hangers

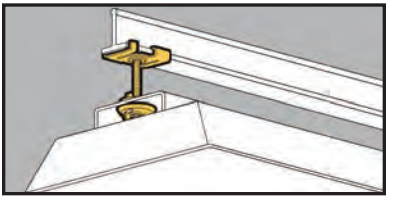


BA-4-16-H



BA-4-16-H1

UPC/Part Number	Catalog Number	Stud Length	Box Qty.
78101118040	**BA-4-16-H**	Sign Hanger with White Finish	100
78101104449	**BA-4-16-H1**	Sign Hanger with Zinc Plated Finish	100



- Supports electrical fixtures from 15/16" T-Bar.
- 1/4"-20 stud available in varying lengths.
- Includes BA-4-WN wing nut with impression.
- Static Load Capacity:
  BA4-16 Series = 50 lbs.
  BA4-WN Series = 100 lbs.

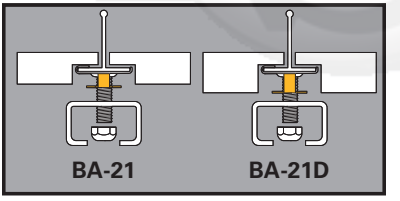
15/16" Twist Fasteners





BA-4-WN

UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118020	**BA-4-16**	Black	5/8"	100
78101118055	**BA-4-16-W**	White	5/8"	100
78101118025	**BA-4-16-24**	White	1 1/2"	100
78101118030	**BA-4-16-32**	White	2"	100
78101118035	**BA-4-16-48**	White	3"	100
78101118060	**BA-4-WN**	Black		100

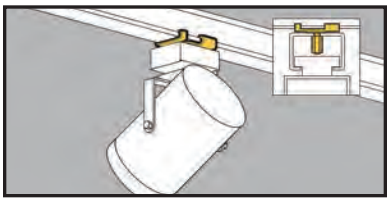


- T-Bar spacer provides flush mounting surface for tegular tile installations.
- Spacer must be used in combination with B-Line's BA-4-16 or BA-2-16 series fasteners.
- Finish: Zinc Plated

T-Bar Spacers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101195575	**BA-21**	1/4" Spacer	100
78101199567	**BA-21D**	3/8" Spacer	100



- Supports electrical fixtures from 15/16" T-Bar.
- #8-32 stud available in varying lengths.
- Static Load Capacity: 25 Lbs.

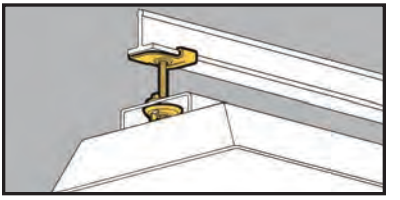
15/16" Twist Fasteners



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118000	**BA-2-16**	Black	5/8" with Pal Nut	100
78101104259	**BA-2-16-7**	Black	7/16" with Pal Nut	100
78101118010	**BA-2-16-W**	White	5/8" with Pal Nut	100
78101104261	**BA-2-16-7-W**	White	7/16" with Pal Nut	100



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101118015	**BA-2-16-BN**	Black	5/8" with Brass Nut	100
78101104260	**BA-2-16-7-BN**	Black	7/16" with Brass Nut	100
78101118015	**BA-2-16-WBN**	White	5/8" with Brass Nut	100
78101199566	**BA-2-16-7-WBN**	White	7/16" with Brass Nut	100

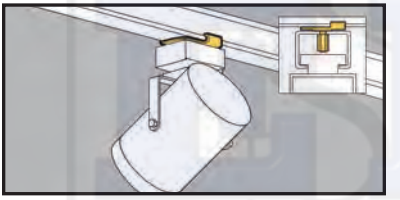


- Supports electrical fixtures from 9/16" T-Bar.
- Stud size: 1/4"-20 x 5/8".
- Static Load Capacity: 40 Lbs.

9/16" Twist Fasteners



UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101103458	**BA-4-9**	Black	5/8"	100
78101103461	**BA-4-9-W**	White	5/8"	100



- Supports electrical fixtures and track lighting from 9/16" T-Bar.
- Stud size: #8-32 x length.
- Static Load Capacity: 25 Lbs.

9/16" Twist Fasteners

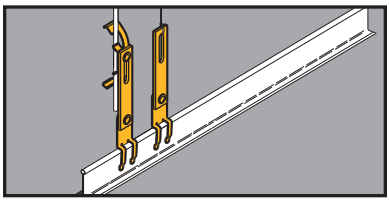
BA-2-9 Series with Pal Nut





BA-2-9-BN Series with Brass Nut

UPC/Part Number	Catalog Number	Finish	Stud Length	Box Qty.
78101103467	**BA-2-9**	Black	5/8"	100
78101103466	**BA-2-9-7**	Black	7/16"	100
78101103459	**BA-2-9-W**	White	5/8"	100
78101103465	**BA-2-9-BN**	Black	5/8"	100
78101103464	**BA-2-9-7-BN**	Black	7/16"	100
78101103460	**BA-2-9-WBN**	White	5/8"	100



Drop Wire/Rod Securing Clip

- Secures independent support wires to ceiling grid as required by NEC Article 300.11.
- Slotted design permits adjustment when securing rods.
- Bright yellow color, Per NEC 300.11 (A), is easily identified by inspectors.



BA-311



BA-311-W2 Shown

UPC/Part Number	Catalog Number	Description	Box Qty.
78101199569	**BA311**	#12 thru #8 Wire	100
78101199570	**BA311-W2**	#12 thru 1/4" Plain or	100
78101199571	**BA311-W6**	3/8" Plain or Threaded Rod	100



Seismic Fixture Clamps

- BA-SFC Series provides seismic restraint for light fixtures within a suspended ceiling.
- BA-SFC reduces labor by attaching light fixtures to the T-bar frame and eliminating extra drop wires or chains.
- Provides positive attachment of fixtures to ceiling grid members, in compliance with ICBO Acceptance Criteria 184 (AC 184).
- Satisfies NEC 410.16(C) which requires positive attachment for secure fastening of luminaries.
- Load rating: 200 lbs.

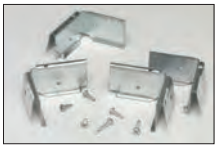
UPC/Part Number	Catalog Number	Description	Box Qty.
78205145911	**BA-SFC**	Seismic Fixture Clamp attaches one standard 2′ x 4′ light fixture to T-Bar ceiling	25 sets (4 clamps) per set)
78205145912	**BA-SFC-E***	For attachment of two standard 2′ x 4′ light fixtures end-to-end onto T-Bar ceiling	25 sets (4 clamps) per set)
78205145913	**BA-SFC-S***	For attachment of two standard 2′ x 4′ light fixtures side-by-side onto T-Bar ceiling	25 sets (4 clamps) per set)
78205145914	**BA-SFC-CF***	For attachment of standard 2′ x 2′ light fixtures onto T-Bar	50 sets (2 clamps) per set)
78205145915	**BA-SFC-CFS**	Seismic Fixture Clamp for reinforcement of main runner connection points	50 sets (2 clamps) per set)

***** BASFC is required to complete installation.

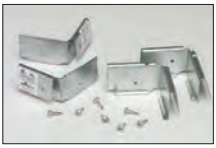
Seismic Fixture Clamps cont.



BA-SFC



BA-SFC-E



BA-SFC-S



BA-SFC-CF



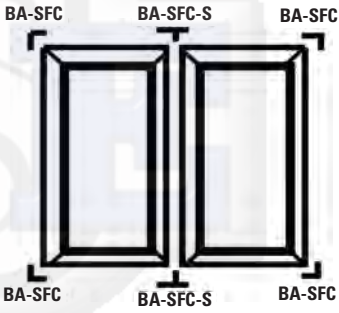
BA-SFC-CFS

Single Fixture Installation



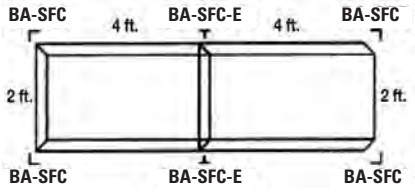
Parts Required:
1 pc. BA-SFC Installation Kit

Two Fixtures (Side by Side)



Parts Required:
1 pc. BA-SFC Installation Kit
1 pc. BA-SFC-S Installation Kit

Two Fixtures (End to End)



Parts Required:
1 pc. BA-SFC Installation Kit
1 pc. BA-SFC-E Installation Kit





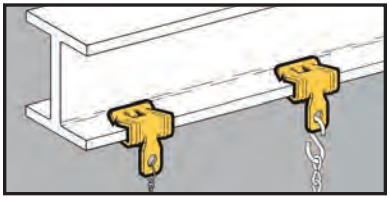












- Permits fast and easy installation on bulb tees and beams.
- Clearance hole for 1/4" bolt in tab.
- Simply installed with a hammer.

Flange Beam Fasteners

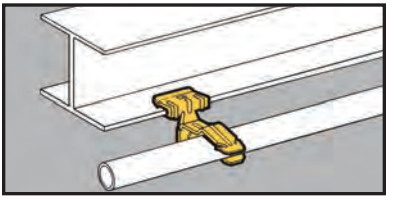


UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118290	**BE-1-2**	3/32" - 9/64"	160 lbs.	100



BE-2-4

UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118295	**BE-2-4**	1/8" - 1/4"	200 lbs.	100
78101118300	**BE-5-8**	5/16" - 1/2"	200 lbs.	100
78101118305	**BE-9-12**	9/16" - 3/4"	200 lbs.	100



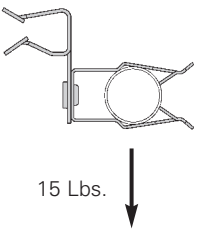
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

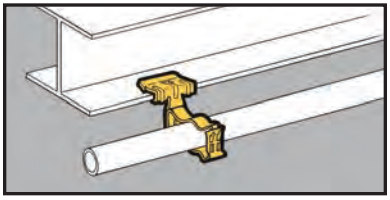
Push-Type Conduit To Beam Fasteners



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119275	**BP-8-E-2-4**	1/2" EMT	1/8" - 1/4"	100
78101119280	**BP-8-E-5-8**	1/2" EMT	5/16" - 1/2"	100
78101119285	**BP-8-E-9-12**	1/2" EMT	9/16" - 3/4"	100
78101119375	**BP-12-E-2-4**	1/2" EMT 1/2" IMC, Rigid	1/8" - 1/4"	100
78101119380	**BP-12-E-5-8**	1/2" EMT 1/2" IMC, Rigid	5/16" - 1/2"	100
78101119385	**BP-12-E-9-12**	1/2" EMT 1/2" IMC, Rigid	9/16" - 3/4"	100
78101119465	**BP-16-E-2-4**	1" EMT 3/4" IMC, Rigid	1/8" - 1/4"	100
78101119470	**BP-16-E-5-8**	1" EMT 3/4" IMC, Rigid	5/16" - 1/2"	100
78101119475	**BP-16-E-9-12**	1" EMT 3/4" IMC, Rigid	9/16" - 3/4"	100

Ultimate Static Load Capacity





- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

Guide-Rite™ Conduit To Beam Fasteners

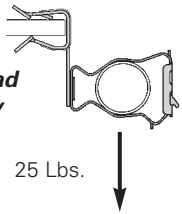


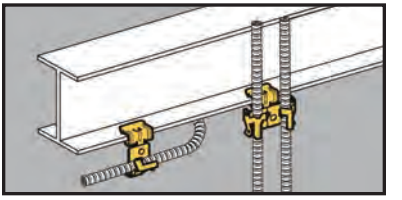
UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101118430	**BG-6-E-2-4**	3/8"	1/8" - 1/4"	100
78101118435	**BG-6-E-5-8**	3/8"	5/16" - 1/2"	100
78101118440	**BG-6-E-9-12**	3/8"	9/16" - 3/4"	100
78101118505	**BG-8-12-E-2-4**	1/2", 3/4"	1/8" - 1/4"	100
78101118510	**BG-8-12-E-5-8**	1/2", 3/4"	5/16" - 1/2"	100
78101118515	**BG-8-12-E-9-12**	1/2", 3/4"	9/16" - 3/4"	100
78101118575	**BG-16-E-2-4**	1"	1/8" - 1/4"	100
78101118580	**BG-16-E-5-8**	1"	5/16" - 1/2"	100
78101118585	**BG-16-E-9-12**	1"	9/16" - 3/4"	100
78101118660	**BG-20-E-2-4**	1 1/4"	1/8" - 1/4"	100
78101118665	**BG-20-E-5-8**	1 1/4"	5/16" - 1/2"	100
78101118670	**BG-20-E-9-12**	1 1/4"	9/16" - 3/4"	100
78101118705	**BG-24-E-2-4**	1 1/2"	1/8" - 1/4"	50
78101118710	**BG-24-E-5-8**	1 1/2"	5/16" - 1/2"	50
78101118715	**BG-24-E-9-12**	1 1/2"	9/16" - 3/4"	50
78101118745	**BG-32-E-2-4**	2"	1/8" - 1/4"	50
78101118750	**BG-32-E-5-8**	2"	5/16" - 1/2"	50
78101118755	**BG-32-E-9-12**	2"	9/16" - 3/4"	50

Patent #4958792

* BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

Static Load Capacity





- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

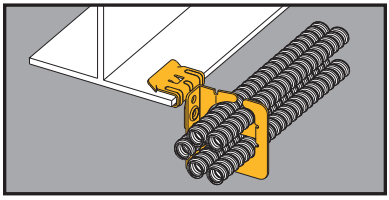
Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Types Of Runs	Flange Thickness	Box Qty.
78101101192	**BX4-E-2-4**	Single	1/8" - 1/4"	100
78101101193	**BX4-E-5-8**	Single	5/16" - 1/2"	100
78101101194	**BX4-E-9-12**	Single	9/16" - 3/4"	100



UPC/Part Number	Catalog Number	Types Of Runs	Flange Thickness	Box Qty.
78101101213	**BX4M-E-2-4**	Double	1/8" - 1/4"	100
78101101214	**BX4M-E-5-8**	Double	5/16" - 1/2"	100
78101101215	**BX4M-E-9-12**	Double	5/16" - 3/4"	100



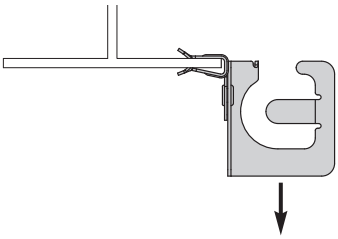
- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

MC/AC Cable Carrier to Beam Fastener



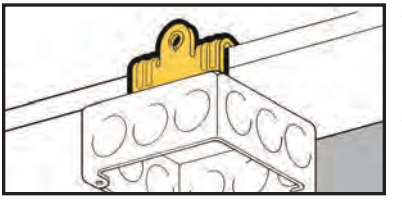
BRC5-2-E24

UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78205144093	**BRC51-E12**	3/32" - 9/64"	25
78205144096	**BRC51-E24**	1/8" - 1/4"	25
78205144099	**BRC51-E58**	5/16" - 1/2"	25
78205144102	**BRC51-E912**	9/16" - 3/4"	25
78205144094	**BRC52-E12**	3/32" - 9/64"	25
78205144097	**BRC52-E24**	1/8" - 1/4"	25
78205144100	**BRC52-E58**	5/16" - 1/2"	25
78205144103	**BRC52-E912**	9/16" - 3/4"	25
78205144095	**BRC53-E12**	3/32" - 9/64"	25
78205144098	**BRC53-E24**	1/8" - 1/4"	25
78205144101	**BRC53-E58**	5/16" - 1/2"	25
78205144104	**BRC53-E912**	9/16" - 3/4"	25



Static Load Capacity

50 Lbs.

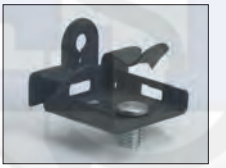


- Suspend boxes or fixtures from beam flanges 1/8" to 3/4" thick.
- Provided with 1/4"-20 thread impression for quick and secure attachment.
- Simply installed with a hammer.

Universal Beam Fasteners

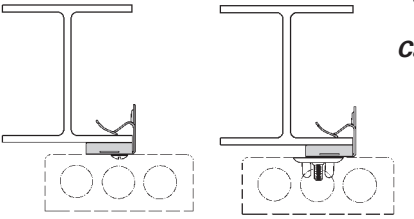


UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101119600	**BU-2-4**	1/8" - 1/4"	100
78101119605	**BU-5-8**	5/16" - 1/2"	100
78101119610	**BU-9-12**	9/16" - 3/4"	100

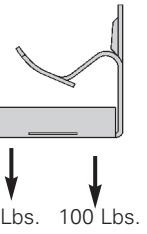


1/4"-20 x 3/8" Staked Stud

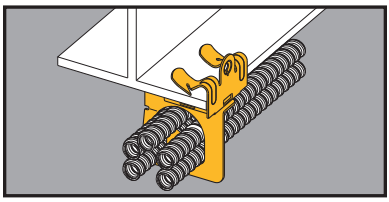
UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101119615	**BU-2-4-S**	1/8" - 1/4"	100
78101119620	**BU-5-8-S**	5/16" - 1/2"	100
78101119625	**BU-9-12-S**	9/16" - 3/4"	100



Static Load Capacity



Note: Indicated loads are static load capacity and should not be combined.

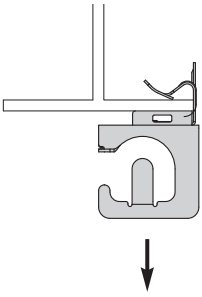


MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- BRC5-1 secures up to four (4) runs of .430 to .560 diameter cable.
- BRC5-2 secures up to nine (9) runs of .430 to .560 diameter cable.
- BRC5-3 secures up to seven (7) runs of .560 to .690 diameter cable.
- Load Capacity: 50 lbs.

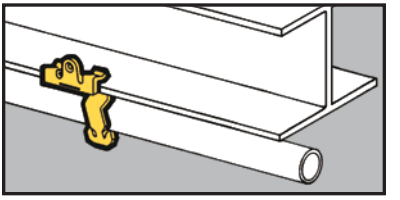


UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78205144066	**BRC51-U24**	1/8" - 1/4"	25
78205144069	**BRC51-U58**	5/16" - 1/2"	25
78205144072	**BRC51-U912**	9/16" - 3/4"	25
78205144067	**BRC52-U24**	1/8" - 1/4"	25
78205144070	**BRC52-U58**	5/16" - 1/2"	25
78205144073	**BRC52-U912**	9/16" - 3/4"	25
78205144068	**BRC53-U24**	1/8" - 1/4"	25
78205144071	**BRC53-U58**	5/16" - 1/2"	25
78205144074	**BRC53-U912**	9/16" - 3/4"	25



Static Load Capacity

75 Lbs.



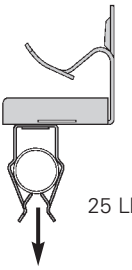
- Quickly attaches conduit to beams.
- Fasteners will rotate 360°.
- Simply installed with a hammer.

Push-Type Conduit To Beam Fasteners



UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119310	**BP-8-U-2-4**	1/2" EMT	1/8" - 1/4"	100
78101119315	**BP-8-U-5-8**	1/2" EMT	5/16" - 1/2"	100
78101119320	**BP-8-U-9-12**	1/2" EMT	9/16" - 3/4"	100
78101119405	**BP-12-U-2-4**	3/4" EMT 1/2" IMC, Rigid	1/8" - 1/4"	100
78101119410	**BP-12-U-5-8**	3/4" EMT 1/2" IMC, Rigid	5/16" - 1/2"	100
78101119415	**BP-12-U-9-12**	3/4" EMT 1/2" IMC, Rigid	9/16" - 3/4"	100
78101119490	**BP-12-U-2-4**	1" EMT 3/4" IMC, Rigid	1/8" - 1/4"	100
78101119495	**BP-12-U-5-8**	1" EMT 3/4" IMC, Rigid	5/16" - 1/2"	100
78101119500	**BP-12-U-9-12**	1" EMT 3/4" IMC, Rigid	9/16" - 3/4"	100

Ultimate Static Load Capacity



Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



- Unique Guide-Rite Fastener provides for fast and easy installation.
- Fasteners will rotate 360°.
- Simply installed with a hammer and pliers.

Guide-Rite™ Conduit To Beam Fasteners



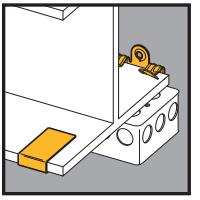
UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101118450	**BG-6-U-2-4**	3/8"	1/8" - 1/4"	100
78101118455	**BG-6-U-5-8**	3/8"	5/16" - 1/2"	100
78101118460	**BG-6-U-9-12**	3/8"	9/16" - 3/4"	100
78101118525	**BG-8-12-U-2-4**	1/2", 3/4"	1/8" - 1/4"	100
78101118530	**BG-8-12-U-5-8**	1/2", 3/4"	5/16" - 1/2"	100
78101118535	**BG-8-12-U-9-12**	1/2", 3/4"	9/16" - 3/4"	100
78101118625	**BG-16-U-2-4**	1"	1/8" - 1/4"	100
78101118630	**BG-16-U-5-8**	1"	5/16" - 1/2"	100
78101118635	**BG-16-U-9-12**	1"	9/16" - 3/4"	100
78101118680	**BG-20-U-2-4**	1 1/4"	1/8" - 1/4"	100
78101118685	**BG-20-U-5-8**	1 1/4"	5/16" - 1/2"	100
78101118690	**BG-20-U-9-12**	1 1/4"	9/16" - 3/4"	100
78101118720	**BG-24-U-2-4**	1 1/2"	1/8" - 1/4"	50
78101118725	**BG-24-U-5-8**	1 1/2"	5/16" - 1/2"	50
78101118730	**BG-24-U-9-12**	1 1/2"	9/16" - 3/4"	50
78101118760	**BG-32-U-2-4**	2"	1/8" - 1/4"	50
78101118765	**BG-32-U-5-8**	2"	5/16" - 1/2"	50
78101118770	**BG-32-U-9-12**	2"	9/16" - 3/4"	50

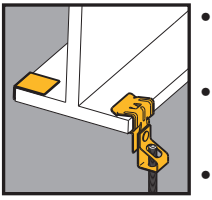
Patent #4958792

* BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

Static Load Capacity







- Anchor strap provides secure attachment to beam flanges.
- Suspends threaded rod from beam flanges.
- 8" anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13" anchor straps are provided for 5/16" to 3/4" thick flanges.

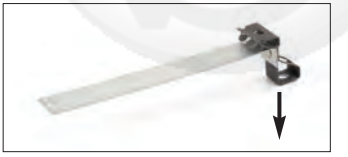
Beam Fasteners With Anchor Straps



Static Load Capacity

75 Lbs.

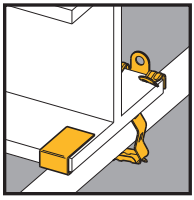
UPC/Part Number	Catalog Number	Stud Size	Flange Thickness	Box Qty.
78101104942	**BU-2-4-S-AS**	1/4"-20 x 3/8"	1/8" - 1/4"	50
78101104943	**BU-5-8-S-AS**	1/4"-20 x 3/8"	5/16" - 1/2"	50
78101104944	**BU-9-12-S-AS**	1/4"-20 x 3/8"	9/16" - 3/4"	50

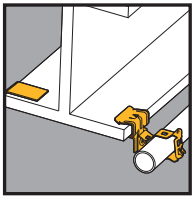


Static Load Capacity

160 Lbs.

UPC/Part Number	Catalog Number	Threaded Rod Size	Flange Thickness	Box Qty.
78101104948	**BH4-E-2-4-AS**	1/4"-20	1/8" - 1/4"	50
78101104949	**BH4-E-5-8-AS**	1/4"-20	5/16" - 1/2"	50
78101104950	**BH4-E-9-12-AS**	1/4"-20	9/16" - 3/4"	50
78101104951	**BH6-E-2-4-AS**	3/8"-16	1/8" - 1/4"	50
78101104952	**BH6-E-5-8-AS**	3/8"-16	5/16" - 1/2"	50
78101104953	**BH6-E-9-12-AS**	3/8"-16	9/16" - 3/4"	50





- Anchor strap provides secure attachment to beam flanges.
- Unique Guide-Rite™ Fastener provides for fast and easy installation.
- 8″ anchor straps are provided for 1/8" to 1/4" thick flanges.
- 13″ anchor straps are provided for 5/16" to 3/4" thick flanges.

Conduit To Beam Fasteners With Anchor Straps



Static Load Capacity

75 Lbs.

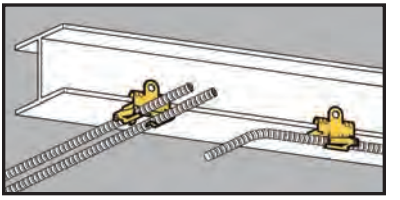
UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101104966	**BG-8-12-U-2-4-AS**	1/2″, 3/4″	1/8″ - 1/4″	50
78101104967	**BG-8-12-U-5-8-AS**	1/2″, 3/4″	5/16″ - 1/2″	50
78101104968	**BG-8-12-U-9-12-AS**	1/2″, 3/4″	9/16″ - 3/4″	50
78101104969	**BG-16-U-2-4-AS**	1″	1/8″ - 1/4″	50
78101104970	**BG-16-U-5-8-AS**	1″	5/16″ - 1/2″	50
78101104971	**BG-16-U-9-12-AS**	1″	9/16″ - 3/4″	50



Static Load Capacity

25 Lbs.

UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101104972	**BG-8-12-E-2-4-AS**	1/2″, 3/4″	1/8″ - 1/4″	50
78101104973	**BG-8-12-E-5-8-AS**	1/2″, 3/4″	5/16″ - 1/2″	50
78101104974	**BG-8-12-E-9-12-AS**	1/2″, 3/4″	9/16″ - 3/4″	50
78101104975	**BG-16-E-2-4-AS**	1″	1/8″ - 1/4″	50
78101104976	**BG-16-E-5-8-AS**	1″	5/16″ - 1/2″	50
78101104977	**BG-16-E-9-12-AS**	1″	9/16″ - 3/4″	50



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to flanges 1/8" to 3/4" thick.
- Fasteners will rotate 360°.

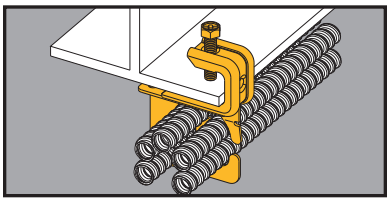
Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101197	**BX4-U-2-4**	Single Runs	1/8" - 1/4"	100
78101101198	**BX4-U-5-8**	Single Runs	5/16" - 1/2"	100
78101101199	**BX4-U-9-12**	Single Runs	9/16" - 3/4"	100



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101206	**BX4M-U-2-4**	Double Runs	1/8" - 1/4"	100
78101101207	**BX4M-U-5-8**	Double Runs	5/16" - 1/2"	100
78101101208	**BX4M-U-9-12**	Double Runs	9/16" - 3/4"	100



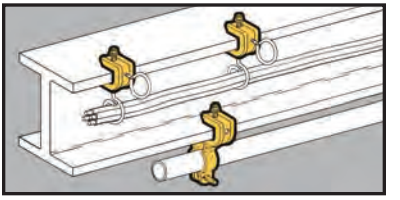
MC/AC Cable Carrier to Beam Fastener

- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges from 1/8" thru 5/8" thick.
- Load Capacity: 50 lbs.



BRC5-1-C442

UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144087	**BRC51-C442**	.430" to .560" Up to 4 Runs	25
78205144088	**BRC52-C442**	.430" to .560" Up to 9 Runs	25
78205144089	**BRC53-C442**	.560" to .690" Up to 7 Runs	25



- BC442 fits beam flanges 1/8" to 5/8". BC442-6 fits beam flanges up to 3/4".
- Finish: Zinc Plated
- Static Load Capacity: BC442 = 100 Lbs. BC442-6 = 200 Lbs.

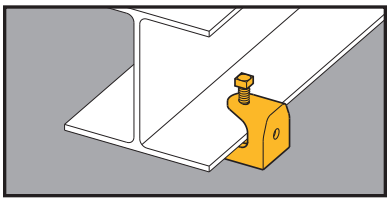
Beam Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118278	**BC442**	Accepts 1/4"-20 Threaded Rod or 1/4"-20 Threaded Bridle Rings	50
78101104283	**BC442-6**	Accepts 3/8"-16 Threaded Rod	25



UPC/Part Number	Catalog Number	Conduit Size Rigid	Conduit Size EMT	Box Qty.
78101119850	**BL1400-C442**	1/2"	1/2"	50
78101119851	**BL1410-C442**	3/4"	3/4"	50
78101119852	**BL1420-C442**	1"	1"	50
78101119853	**BL1425-C442**	--	1 1/4"	50
78101119854	**BL1430-C442**	1 1/4"	1 1/2"	50
78101119855	**BL1440-C442**	1 1/2"	--	25
78101119856	**BL1450-C442**	2"	2"	25

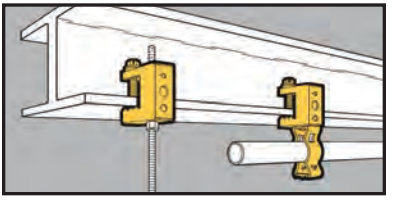


- Can be used with 1/4"-20 and 3/8"-16 threaded rod or bridle rings.
- Fits beam flanges through 1/2" thick.
- Safety Factor of 5.
- Finish: Zinc-Plated

Beam Fasteners



UPC/Part Number	Catalog Number	Rod Size	Static Load Cap.	Box Qty.
78101155333	**B444-1/4**	1/4"-20	150 lbs.	50
78101155333	**B444-5/16**	5/16"-18	150 lbs.	50
78101155333	**B444-3/8**	3/8"-16	150 lbs.	50



- Fits beam flanges thru 1/2" thick.
- Accepts "S" hooks, 1/4" and 3/8" threaded rod, 1/4"-20 or #10-24 threaded bridle rings.
- Supports conduit and electrical boxes.

Conduit To Beam Fasteners



UPC/Part Number	Catalog Number	Flange Thickness	Static Load Cap.	Box Qty.
78101118275	**BC1**	Thru 1/42	100 lbs.	100

Guide-Rite™ Fastener



UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap.	Box Qty.
78101118490	**BG-8-12-C2**	1/2", 3/4"	100 lbs.	100
78101118570	**BG-16-C2**	1"	100 lbs.	100
78101118655	**BG-20-C2**	1 1/4"	100 lbs.	100
78101118700	**BG-24-C2**	1 1/2"	100 lbs.	100
78101118740	**BG-32-C2**	2"	100 lbs.	100

Conduit To Beam Fasteners



Guide-Rite™
Fastener

UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap.	Box Qty.
78101118485	**BG-8-12-C1**	1/2", 3/4"	25 lbs.	100
78101118565	**BG-16-C1**	1"	25 lbs.	100
78101118650	**BG-20-C1**	1 1/4"	25 lbs.	100
78101118695	**BG-24-C1**	1 1/2"	25 lbs.	50
78101118735	**BG-32-C1**	2"	25 lbs.	50



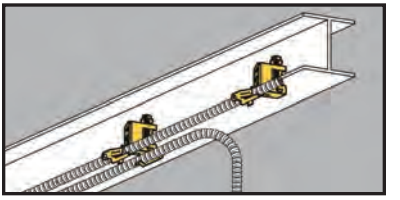
Push-Type

UPC/Part Number	Catalog Number	Conduit Size	Ultimate Static Load Cap.	Box Qty.
78101119260	**BP-8-C2**	1/2" EMT	25 lbs.	100
78101119360	**BP-12-C2**	3/4" EMT 1/2" IMC, Rigid	25 lbs.	100
78101119455	**BP-16-C2**	1" EMT 3/4" IMC, Rigid	25 lbs.	100



Push-Type

UPC/Part Number	Catalog Number	Conduit Size	Ultimate Static Load Cap.	Box Qty.
78101119255	**BP-8-C1**	1/2" EMT	25 lbs.	100
78101119355	**BP-12-C1**	3/4" EMT 1/2" IMC, Rigid	25 lbs.	100
78101119450	**BP-16-C1**	1" EMT 3/4" IMC, Rigid	25 lbs.	100



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

Cable To Beam Fasteners

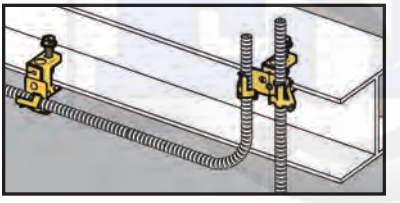
BX4-C2



BX4M-C2



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101101190	**BX4-C2**	Single Runs	100
78101101210	**BX4M-C2**	Double Runs	100



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to beam flanges thru 1/2" thick.
- Fasteners will rotate 360°.
- Requires only a screwdriver to install.

Cable To Beam Fasteners

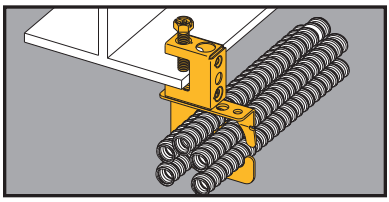
BX4-C1



BX4M-C1



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101101191	**BX4-C1**	Single Runs	100
78101101209	**BX4M-C1**	Double Runs	100



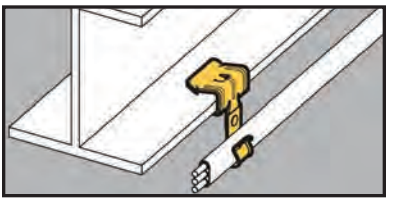
- Secures and supports MC/AC cables as required by the NEC.
- Effectively organizes cables and eliminates derating issues.
- Fits beam flanges thru 1/2" thick.
- Load Capacity: 50 lbs.

MC/AC Cable Carrier to Beam Fastener



BRC5-x-C2

UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144090	**BRC51-C2**	.430" to .560" Up to 4 Runs	25
78205144091	**BRC52-C2**	.430" to .560" Up to 9 Runs	25
78205144092	**BRC53-C2**	.560" to .690" Up to 7 Runs	25

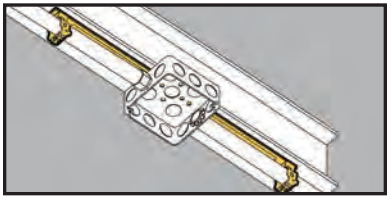


- Attaches Type NM cable to beam flanges 1/8" to 1/2" thick.
- Supports cable sizes 14/2 and 12/2 with ground wire.
- Simply installed with a hammer.

Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Flange Thickness	Box Qty.
78101103550	**BRC3-E-2-4**	1/8" to 1/4"	100
78101103551	**BRC3-E-5-8**	5/16" to 1/2"	100
78101103552	**BRC3-E-9-12**	9/16" to 3/4"	100

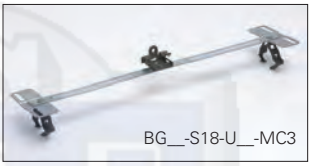


Guide-Rite™ Conduit & Box Support Fasteners

- See Ruff-IN™ brochure for pre-fab box assemblies.

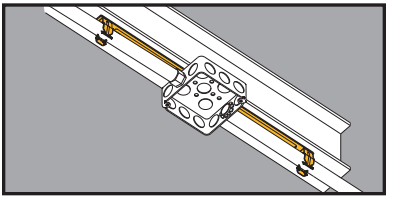
- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.


BG__-S18-U__


BG__-S18-U__-MC3

UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101103583	**BG6-S18-U24 ***	3/8"	1/8" to 1/4"	25
78101103584	**BG6-S18-U58 ***	3/8"	5/16" to 1/2"	25
78101103579	**BG812-S18-U24**	1/2", 3/4"	1/8" to 1/4"	25
78101103580	**BG812-S18-U58**	1/2", 3/4"	5/16" to 1/2"	25
78101103581	**BG16-S18-U24**	1"	1/8" to 1/4"	25
78101103582	**BG16-S18-U58**	1"	5/16" to 1/2"	25
		Patent #4958792		
With Multiple Conduit Plate				
78205152813	**BG6-S18-U24-MC3 ***	3/8"	1/8" to 1/4"	25
78205152814	**BG6-S18-U58-MC3 ***	3/8"	5/16" to 1/2"	25
78205152815	**BG812-S18-U24-MC3**	1/2", 3/4"	1/8" to 1/4"	25
78205152816	**BG812-S18-U58-MC3**	1/2", 3/4"	5/16" to 1/2"	25
78205152817	**BG16-S18-U24-MC3**	1"	1/8" to 1/4"	25
78205152823	**BG16-S18-U58-MC3**	1"	5/16" to 1/2"	25

* BG-6 will accept the following range Ø.420 - Ø.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



Push-Type Conduit & Box Support Fasteners

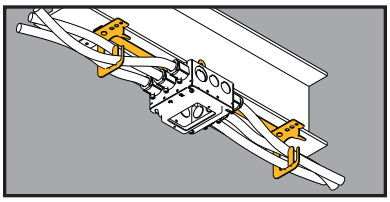
- See Ruff-IN™ brochure for pre-fab box assemblies.

- New BMC3 plate is available to support multiple conduit runs.
- Riveted assembly secures electrical boxes and conduit runs to beam flanges 1/8" to 1/2" thick.
- Provides support for conduit on either side of electrical box.
- Assemblies using BMC3 plate include center conduit clamp. Additional conduit clamps may be purchased separately.





UPC/Part Number	Catalog Number	Conduit Size EMT, IMC, Rigid	Flange Thickness	Box Qty.
78205123635	**BP8-S18-U24**	3/8"	1/8" to 1/4"	25
78205123638	**BP8-S18-U58**	3/8"	5/16" to 1/2"	25
78205123636	**BP12-S18-U24**	1/2", 3/4"	1/8" to 1/4"	25
78205123639	**BP12-S18-U58**	1/2", 3/4"	5/16" to 1/2"	25
78205123637	**BP16-S18-U24**	1"	1/8" to 1/4"	25
78205123640	**BP16-S18-U58**	1"	5/16" to 1/2"	25
		Patent #4958792		
With Multiple Conduit Plate				
78205152824	**BP8-S18-U24-MC3**	3/8"	1/8" to 1/4"	25
78205152825	**BP8-S18-U58-MC3**	3/8"	5/16" to 1/2"	25
78205152827	**BP12-S18-U24-MC3**	1/2", 3/4"	1/8" to 1/4"	25
78205152828	**BP12-S18-U58-MC3**	1/2", 3/4"	5/16" to 1/2"	25
78205152825	**BP16-S18-U24-MC3**	1"	1/8" to 1/4"	25
78205152964	**BP16-S18-U58-MC3**	1"	5/16" to 1/2"	25



Multi-Run Cable Carrier & Box Support Fastener

- Riveted assembly provides support for electrical box and cable run on either side of box.
- Cable retension tab is open for easy loading and contains cable when bent in place.
- See Ruff-IN™ brochure for pre-fab box assemblies.



UPC/Part Number	Catalog Number	Conduit Size Number of Runs	Flange Thickness	Box Qty.
78205152829	**BRC51-S18-U24**	.430" - .560" Up to 4 Runs	1/8" to 1/4"	25
78205152830	**BRC51-S18-U58**	.560" - .690" Up to 7 Runs	5/16" to 1/2"	25
78205152834	**BRC53-S18-U24**	.430" - .560" Up to 4 Runs	1/8" to 1/4"	25
78205152835	**BRC53-S18-U58**	.560" - .690" Up to 7 Runs	5/16" to 1/2"	25

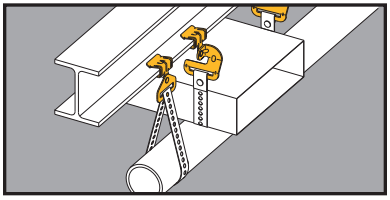












- Suspends straps thru 1 1/2" wide from beam flanges 1/8" to 3/4" thick.
- Suspends straps parallel or at right angles to beams.
- Simply installed with a hammer.
- Static Load Capacity: 200 Lbs.

Strap Hangers

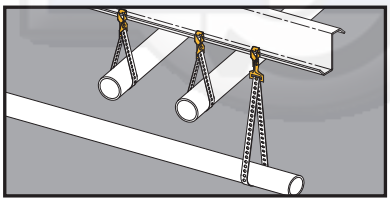
Parallel





Right Angle

UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101104930	**BHE-1-2**	Parallel	1/16" to 1/8"	100
78101118870	**BH-2-4**	Parallel	1/8" to 1/4"	100
78101118880	**BH-5-8**	Parallel	5/16" to 1/2"	100
78101118890	**BH-9-12**	Parallel	9/16" to 3/4"	100
78101104115	**BH-1-2-R**	Right Angle	1/16" to 1/8"	100
78101118875	**BH-2-4-R**	Right Angle	1/8" to 1/4"	100
78101118885	**BH-5-8-R**	Right Angle	5/16" to 1/2"	100
78101118895	**BH-9-12-R**	Right Angle	9/16" to 3/4"	100



.281"Ø



BH-H7

"Z" Purlin Hangers

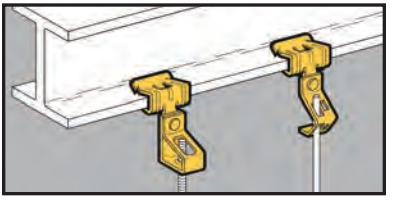


BH-F12



BH-F12-R

UPC/Part Number	Catalog Number	Description	Box Qty.
78101103385	**BH-F12**	Right Angle	100
78101103384	**BH-F12-R**	Parallel	100
78101119922	**BH-H7**	Parallel	100



- Suspend wire or plain and threaded rod from beam flanges 1/8" to 3/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.

Rod To Beam Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118900	**BH1-E-2-4**	1/8" to 1/4"	#8 Wire or 1/4" Plain Rod	100
78101118905	**BH1-E-5-8**	5/16" - 1/2"	#8 Wire or 1/4" Plain Rod	100
78101118910	**BH1-E-9-12**	9/16" - 3/4"	#8 Wire or 1/4" Plain Rod	100

UPC/Part Number	Catalog Number	Flange Thickness	Plain Rod Size	Box Qty.
78101118940	**BH2-E-2-4**	1/8" to 1/4"	3/8"	100
78101118945	**BH2-E-5-8**	5/16" - 1/2"	3/8"	100
78101118950	**BH2-E-9-12**	9/16" - 3/4"	3/8"	100

Rod To Beam Hangers

With Thread Impression

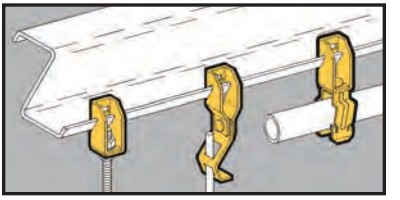


UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
78101118980	**BH4-E-2-4**	1/8" to 1/4"	1/4"	100
78101118985	**BH4-E-5-8**	5/16" - 1/2"	1/4"	100
78101118990	**BH4-E-9-12**	9/16" - 3/4"	1/4"	100
78101119060	**BH6-E-2-4**	1/8" to 1/4"	3/8"	100
78101119065	**BH6-E-5-8**	5/16" - 1/2"	3/8"	100
78101119070	**BH6-E-9-12**	9/16" - 3/4"	3/8"	100

Note: BH4 and BH6 have thread impressions.

UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
78101119020	**BH5-E-2-4 ***	1/8" to 1/4"	1/4" to 3/8"	100
78101119025	**BH5-E-5-8 ***	5/16" - 1/2"	1/4" to 3/8"	100
78101119030	**BH5-E-9-12 ***	9/16" - 3/4"	1/4" to 3/8"	100

*Nuts Required.



- Compensates for angle of purlin lip.
- Allows for parallel conduit runs or vertical support drops.
- Riveted fasteners will rotate 360°.
- Maximum Purlin thickness of 3/32".

"Z" Purlin Hangers

BF13





BF12

UPC/Part Number	Catalog Number	Description	Static Load Cap. Lbs.	Box Qty.
78101118345	**BF13**	With 1/4" Hole	100	100
78101118340	**BF12**	For "S" Hooks	100	100

Guide-Rite™ Fastener
BG Series





Push-Type
BP Series

UPC/Part Number	Catalog Number	Conduit Size EMT & Rigid	Static Load Cap. Lbs.	Box Qty.
78101118445	**BG-6-F13** *	3/8"	100	100
78101118520	**BG-8-12-F13**	1/2", 3/4"	100	100
78101118590	**BG-16-F13**	1"	100	100
78101118675	**BG-20-F13**	1 1/4"	100	100
78101119290	**BP-8-F13**	1/2" EMT	25	100
78101119390	**BP-12-F13**	3/4" EMT 1/2" IMC, Rigid	25	100
78101119480	**BP-16-F13**	1" EMT 3/4" IMC, Rigid	25	50

* BG-6 will accept the following range Ø.420 - Ø.675:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit

Universal Beam Fasteners

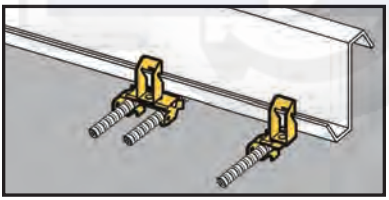


UPC/Part Number	Catalog Number	Description	Static Load Cap.	Box Qty.
78101118920	**BH1-F12**	#8 Wire or 1/4" Plain Rod	100 Lbs.	100
78101118960	**BH2-F12**	3/8" Plain Rod	100 Lbs.	100



UPC/Part Number	Catalog Number	Threaded Rod Size	Static Load Cap.	Box Qty.
78101119000	**BH4-F12**	1/4"	100 Lbs.	100
78101119080	**BH6-F12**	3/8"	100 Lbs.	100
78101119040	**BH5-F12 ***	1/4" & 3/8"	100 Lbs.	100

*Nuts Required.
Note: BH4 and BH6 have thread impressions.



- Compensates for angle of purlin lip.
- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" FMC to "Z" Purlins up to 3/32" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.

Cable To "Z" Purlin Flange Hangers

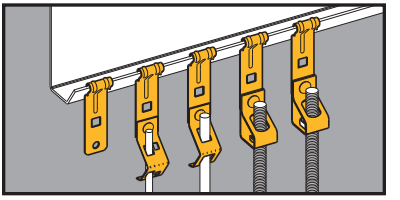
BX4-F13



BX4M-F13



UPC/Part Number	Catalog Number	Description	Flange Thickness	Box Qty.
78101101188	**BX4-F13**	Single Runs	Thru 3/32"	100
78101101204	**BX4M-F13**	Double Runs	Thru 3/32"	100



- Suspend wire, or plain and threaded rod from "Z" Purlins.
- Fits "Z" Purlins 1/16" to 1/4" thick.
- Simply installed with a hammer.
- Static Load Capacity: 160 Lbs.

"Z" Purlin Flange Hangers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104271	**BF4**	For "S" Hooks, Bolting Straps and Wrap Wire	100

"Z" Purlin Flange Hangers

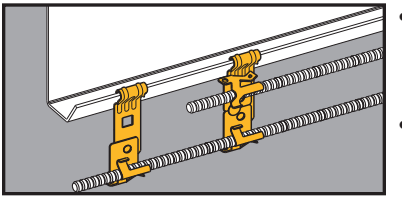


UPC/Part Number	Catalog Number	Description	Box Qty.
78101104274	**BH1-F4**	#8 Wire or 1/4" Plain Rod	100
78101104276	**BH2-F4**	3/8" Plain Rod	100



UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101104286	**BH4-F4**	1/4"	100
78101104280	**BH6-F4**	3/8"	100
78101104278	**BH5-F4 ***	1/4" - 3/8"	100

* Nuts required.
Note: BH4 & BH6 have thread impressions.



- Attaches MC, AC, sizes 14/2 thru 10/3 or 3/8" FMC to "Z" Purlins.
- Fits "Z" Purlin flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.

Cable To "Z" Purlin Flange Hangers



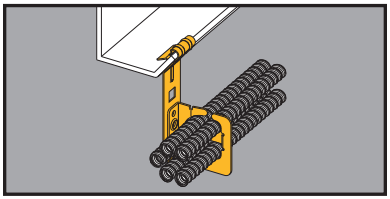
UPC/Part Number	Catalog Number	Description	Box Qty.
78101104931	**BX4-F4**	Single Runs	100

These products are designed for positioning only. No load rating.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104932	**BX4M-F4**	Double Runs	100

These products are designed for positioning only. No load rating.

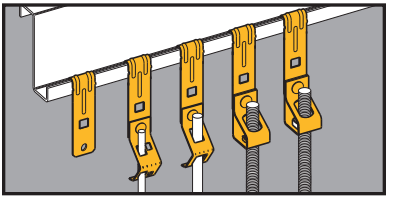


MC/AC Cable Carrier to 'Z' Purlin Flange Hanger

- Secures and supports multiple runs of MC/AC cable to 'Z' purlins.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.



UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144084	**BRC51-F4**	.430" to .560" Up to 4 Runs	25
78205144085	**BRC52-F4**	.430" to .560" Up to 9 Runs	25
78205144086	**BRC53-F4**	.560" to .690" Up to 7 Runs	25



- Suspend wire, or plain and threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

Vertical Flange Hangers



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104270	**BF3**	For "S" Hooks, Bolting Straps and Wrap Wire	100

Vertical Flange Hangers



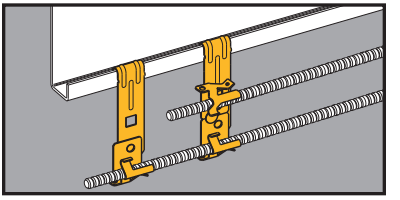
UPC/Part Number	Catalog Number	Description	Box Qty.
78101104273	**BH1-F3**	#8 Wire or 1/4" Plain Rod	100
78101104275	**BH2-F3**	3/8" Plain Rod	100



4 1/4"
Overall Height

UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101104285	**BH4-F3**	1/4"	100
78101104279	**BH6-F3**	3/8"	100
78101104933	**BH5-F3 ***	1/4", 3/8"	100

* Nuts required.



- Attaches MC, AC, sizes 14/2 through 10/3 or 3/8" flexible conduit FMC to vertical flanges 1/16" to 1/4" thick.
- Fastener will rotate 360°.
- Simply installed with a hammer.

Cable To Vertical Flange Hangers



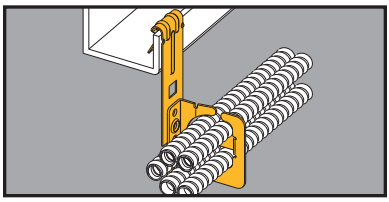
UPC/Part Number	Catalog Number	Description	Box Qty.
78101104281	**BX4-F3**	Single Runs	100

This product is designed for positioning only. No load rating.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104282	**BX4M-F3**	Double Runs	100

This product is designed for positioning only. No load rating.

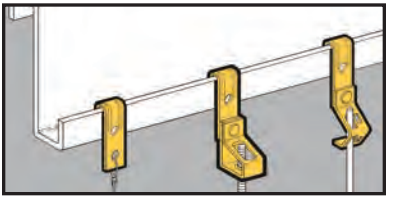


MC/AC Cable Carrier To Vertical Flange Hanger

- Secures and supports multiple runs of MC/AC cable to vertical flanges.
- Effectively organizes cables and eliminates derating issues.
- Retention tab is open for easy loading and unloading and contains cables when bent in place.
- Load Capacity: 50 lbs.



UPC/Part Number	Catalog Number	Cable Diameter & Number of Runs	Box Qty.
78205144081	**BRC51-F3**	.430" to .560" Up to 4 Runs	25
78205144084	**BRC52-F3**	.430" to .560" Up to 9 Runs	25
78205144083	**BRC53-F3**	.560" to .690" Up to 7 Runs	25



- Suspend wire, or plain or threaded rod from vertical flanges.
- Fits vertical flanges 1/16" to 1/4" thick.
- Static Load Capacity: 160 Lbs.

Vertical Flange Hangers



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118310	**BF1**	1/16" - 5/32"	For "S" Hooks, Bolting Straps and Wrap Wire	100
78101118315	**BF2**	5/32" - 1/4"	For "S" Hooks, Bolting Straps and Wrap Wire	100



UPC/Part Number	Catalog Number	Flange Thickness	Description	Box Qty.
78101118915	**BH1-F1**	1/16" - 5/32"	#8 Wire or 1/4" Plain Rod	100
78101118925	**BH1-F2**	5/32" - 1/4"	#8 Wire or 1/4" Plain Rod	100

Vertical Flange Hangers

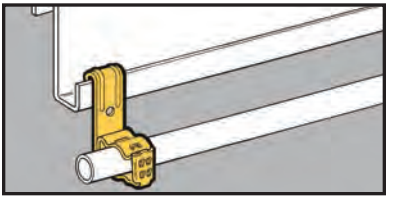


UPC/Part Number	Catalog Number	Flange Thickness	Plain Rod Size	Box Qty.
78101118955	**BH2-F1**	1/16" - 5/32"	3/8"	100
78101118965	**BH2-F2**	5/32" - 1/4"	3/8"	100



UPC/Part Number	Catalog Number	Flange Thickness	Threaded Rod Size	Box Qty.
With Thread Impression				
78101118995	**BH4-F1**	1/16" - 5/32"	1/4"	100
78101119075	**BH6-F1**	1/16" - 5/32"	3/8"	100
78101119005	**BH4-F2**	5/32" - 1/4"	1/4"	100
78101119085	**BH6-F2**	5/32" - 1/4"	3/8"	100
With Clearance Hole				
78101118995	**BH5-F1 ***	1/16" - 5/32"	1/4", 3/8"	100
78101119075	**BH5-F2 ***	5/32" - 1/4"	1/4", 3/8"	100

* Nuts required.



- Supports 3/8" to 1" conduit from vertical flanges 1/16" to 1/4" thick.
- Patented Guide-Rite™ feature ensures fastener will close and lock every time.
- Simply installed with a hammer and pliers.
- Static Load Capacity: 25 Lbs.

Conduit To Vertical Flange Hangers



Guide-Rite™
Fastener

UPC/Part Number	Catalog Number	Conduit Size	Flange Thickness	Box Qty.
78101119957	**BG-6-F1 ***	3/8"	1/16" - 5/32"	100
78101119960	**BG-6-F2 ***	3/8"	5/32" - 1/4"	100
78101119958	**BG-8-12-F1**	1/2" & 3/8"	1/16" - 5/32"	100
78101119961	**BG-8-12-F2**	1/2" & 3/8"	5/32" - 1/4"	100
78101119958	**BG-16-F1**	1"	1/16" - 5/32"	100
78101119961	**BG-16-F2**	1"	5/32" - 1/4"	100

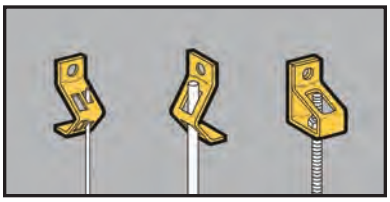
Patent #4958792

***** BG-6 will accept the following range ∅.420 - ∅.675:
14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



UPC/Part Number	Catalog Number	Wire Size	Flange Thickness	Box Qty.
78101103556	**BRC3-F1**	14/2 & 12/2 With Ground	1/16" - 5/32"	100
78101103557	**BRC3-F2**	14/2 & 12/2 With Ground	5/32" - 1/4"	100

Note: These products are designed for positioning only. No load rating.



- BH1, BH2: Supports wire or plain rod.
- BH7, BH8: For wire or chain drop from concrete or wood.
- BH4, BH5, BH6 supports 1/4" or 3/8" threaded rod.
- Static Load Capacity: 160 Lbs.

Components



BH1



BH2

UPC/Part Number	Catalog Number	Description	Box Qty.
78101118800	**BH1**	#8 Wire or 1/4" Plain Rod	100
78101118805	**BH2**	For 3/8" Plain Rod	100

BH4
BH6





BH5

UPC/Part Number	Catalog Number	Description	Box Qty.
78101118815	**BH4**	For 1/4" Threaded Rod	100
78101118825	**BH6**	For 3/8" Threaded Rod	100
78101118820	**BH5 ***	For 1/4" & 3/8" Threaded Rod	100

* Nuts required.
Note: BH4 & BH6 have thread impressions.

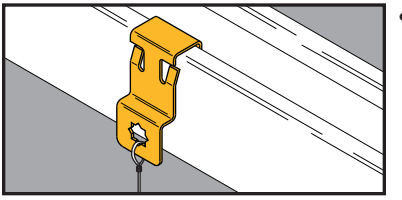
BH7





BH8

UPC/Part Number	Catalog Number	Description	Box Qty.
78101118830	**BH7**	Angle Bracket With .281"Ø Holes	100
78101118835	**BH7-6**	Angle Bracket With .281"Ø & .406"Ø Holes	100
78101118840	**BH8**	Offset Bracket With .281"Ø Holes	100
78101118845	**BH8-6**	Offset Bracket With .281"Ø & .406"Ø Holes	100



Strut Fasteners

- The BSC4 Series provides a simple, snap-on attachment to strut, eliminating the need for tools and/or drilling during installation.
- Ideal for retrofit and add-on applications.
- BSC4 provides a 1/4" mounting hole along the side of a standard strut member.
- Riveted assemblies allow for easy attachment of conduit, cable and rod.



UPC/Part Number	Catalog Number	Description	Load Capacity	Box Qty.
78205146573	**BSC4**	Strut Clip	60 lbs.	100



UPC/Part Number	Catalog Number	Rod Size	Load Capacity	Box Qty.
78205146581	**BH4-SC4**	1/4"-20	60 lbs.	100
78205146582	**BH6-SC4**	3/8"-16	60 lbs.	100


BG_-SC4


BP_-SC4

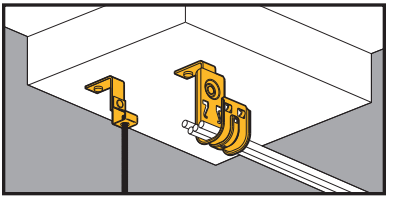

BL14__-SC4

UPC/Part Number	Catalog Number	Conduit Size	Load Capacity	Box Qty.
78205146577	**BG6-SC4**	MC/AC & 3/8"	25 lbs.	100
78205146578	**BG812-SC4**	1/2" & 3/4"	25 lbs.	100
78205146579	**BP8-SC4**	1/2"	15 lbs.	100
78205146580	**BP12-SC4**	3/4"	15 lbs.	100
78205146588	**BL1400-SC4**	1/2"	60 lbs.	100
78205146589	**BL1410-SC4**	3/4"	60 lbs.	100
78205146590	**BL1420-SC4**	1"	60 lbs.	100


BX4M_-SC4


BRC5_-SC4

UPC/Part Number	Catalog Number	Cable Size Runs	Load Capacity	Box Qty.
78205146584	**BX4M-SC4**	14/2 - 10/3 up to 2 runs	–	100
78205146585	**BRC51-SC4**	.430" to .560" up to 4 runs	50 lbs.	100
78205146586	**BRC52-SC4**	.430" to .560" up to 9 runs	50 lbs.	100
78205146587	**BRC53-SC4**	.560" to .690" up to 7 runs	50 lbs.	100



- Special support bracket allows clearance for powder actuated tools.
- Exclusive 1 1/4" drive pin now pre-installed.
- Pins rated for concrete up to 4000 psi.
- Static Load Capacity: 30 Lbs. unless specified. Limited by fastener assembly. Pin rating must be considered before installation.

Drive Pin Fasteners



BPNA



BCH21-PNA
BCH32-PNA



BH-PNA



BH1-PNA
BH2-PNA

UPC/Part Number	Catalog Number	Description	Box Qty.
78205125583	**BPNA**	Angle Bracket	100
78205128090	**BCH12-PNA**	3/4" Cable Hook	100
78205125584	**BCH21-PNA**	1 5/16" Cable Hook	50
78205125586	**BCH32-PNA**	2" Cable Hook	50
78205125588	**BCH64-PNA**	4" Cable Hook	25
78205125611	**BH-PNA**	Strap Hanger	100
78205125593	**BH1-PNA**	#8 Wire or 1/4" Plain Rod	100
78205125596	**BH2-PNA**	3/8" Plain Rod	100

Drive Pin Fasteners


BH_-PNA


BG_-PNA


BP_-PNA


BL14__-PNA

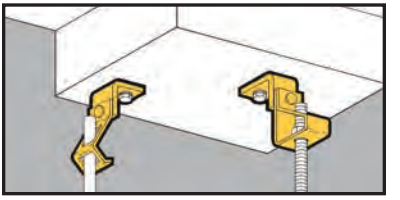

BX4-PNA


BX4M-PNA

UPC/Part Number	Catalog Number	Description	Box Qty.
78205125604	**BH4-PNA** *	1/4" Threaded Rod	100
78205125606	**BH6-PNA** *	3/8" Threaded Rod Cable Hook	100
78205125605	**BH5-PNA** **	1/4" or 3/8" Threaded Rod	100
78205125613	**BG6-PNA** ***	3/8" Conduit	100
78205125615	**BG8-12-PNA**	1/2" & 3/4" Conduit	100
78205125616	**BG16-PNA**	1" Conduit	100
78205125623	**BP8-PNA**	1/2" EMT	100
78205125624	**BP12-PNA**	3/4" EMT	100
78205125630	**BP16-PNA**	1" EMT	100
78205125620	**BL1400-PNA**	1/2" Conduit	100
78205125621	**BL1410-PNA**	3/4" Conduit	100
78205125622	**BL1420-PNA**	1" Conduit	100
78205125590	**BX4-PNA**	Single Run MC, AC or FMC	100
78205125591	**BX4M-PNA**	Double Run MC, AC or FMC	100

* With threaded impressions. ** Nuts required.

*** BG-6 will accept the following range ∅.420 - ∅.675: 14/2 thru 10/4 MC/AC cable and 5/16 or 3/8 flexible conduit



- Suspend plain or threaded rod and drop wire from ceilings, walls, concrete beams, joists and laminated wood beams.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.

Angle Bracket Fasteners

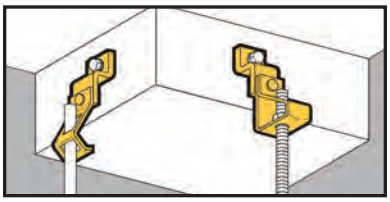


UPC/Part Number	Catalog Number	Description	Box Qty.
78101118930	**BH1-H7**	#8 Wire or 1/4" Plain Rod	100
78101118975	**BH2-H7**	For 3/8" Plain Rod	100



UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101119010	**BH4-H7**	1/4"-20	100
78101119090	**BH6-H7**	3/8"-16	100
78101119050	**BH5-H7 ***	1/4"-20 or 3/8"-16	100

* Nuts required.
Note: BH4 & BH6 have thread impressions.



- Suspend plain or threaded rod and drop wire from ceilings, walls, beams, and joists.
- Clearance hole for 1/4" bolt provided.
- Static Load Capacity: 160 Lbs.

Offset Bracket Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118935	**BH1-H8**	#8 Wire or 1/4" Plain Rod	100
78101118975	**BH2-H8**	3/8" Plain Rod	100



UPC/Part Number	Catalog Number	Threaded Rod Size	Box Qty.
78101119015	**BH4-H8**	1/4"-20	100
78101119095	**BH6-H8**	3/8"-16	100
78101119055	**BH5-H8 ***	1/4"-20 or 3/8"-16	100

* Nuts required.
Note: BH4 & BH6 have thread impressions.



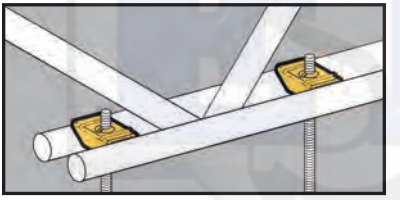
- Suspend 3/8" threaded rod from ceilings, walls, beams, and joists.
- Finish: Zinc Plated
- Static Load Capacity: 610 Lbs.

Threaded Rod Hangers

.406"Ø



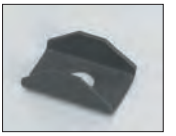
UPC/Part Number	Catalog Number	Description	Box Qty.
78101101661	**B3223-3/8**	Offset Eye Socket	100



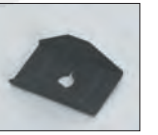
- Allows centering on all open web joists with round bottom chords.
- Static Load Capacity: BH11 = 200 Lbs. BH12 = 100 Lbs.

Wedge Hangers

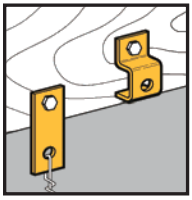
BH11

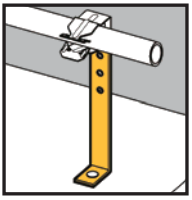


BH12



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118860	**BH11**	With 3/8" Clearance Hole	100
78101118865	**BH12**	With 1/4"-20 Thread Impression	100





- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2



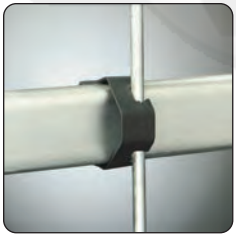
BD4



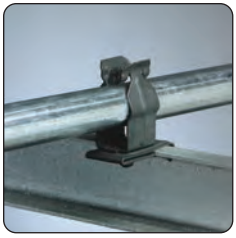
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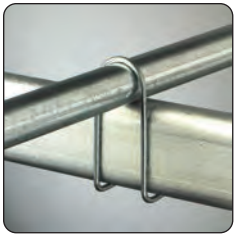
UPC/Part Number	Catalog Number	Description	Box Qty.
78101101686	**BD2**	Flat Bracket	100
78101118280	**BD4**	Offset Bracket	100
78101101449	**BA28B**	Angle Bracket	100

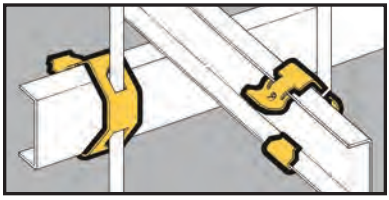












- For fastening standard lathers channels to wires and plain rods.
- Fits 1/2" through 5/8" channel flange widths.
- Accepted for use by the City of New York Department of Buildings. MEA 383-91-M.
- Static Load Capacity: 160 Lbs.

Rod & Wire Fasteners



BL-24-2



Side Mounts

BL-24-4

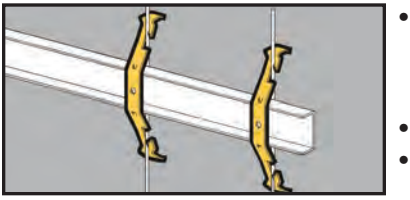
UPC/Part Number	Catalog Number	Channel Size	Rod/Wire Size	Box Qty.
78101119882	**BL-24-2**	1 1/2"	#8 Wire	100
78101119883	**BL-24-4**	1 1/2"	1/4"	100
78101119885	**BL-32-4**	2"	1/4"	100



Center Mount

UPC/Part Number	Catalog Number	Channel Size	Rod/Wire Size	Box Qty.
78101119884	**BL-24-4C**	1 1/2"	1/4" Rod	100

Lathers Channel

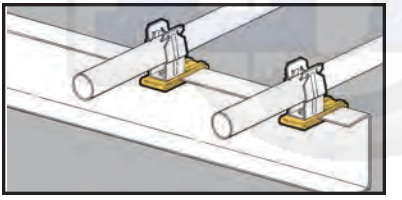


Rod & Wire Fasteners

- For fastening standard 1 1/2" lathers channel to wires and plain rods.
- Wire size: #8 and #9.
- Rod size: 3/16" and 1/4".
- Fits 9/16" thru 5/8" channel flange widths.
- Static Load Capacity: 100 Lbs.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101119880	**BL1**	Channel to Rod & Wire	100



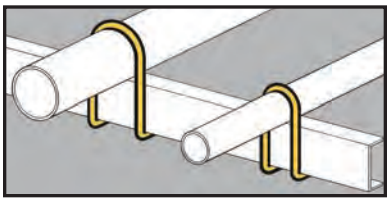
Flange Fasteners

- Serves as a mounting base for conduit fasteners or electrical boxes.
- Attaches to either flange of lathers channel with 1/4"-20 screw (furnished).
- Fits channel flange widths up to 5/8".



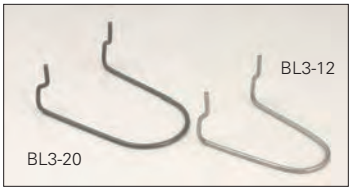
UPC/Part Number	Catalog Number	Description	Box Qty.
78101119881	**BL2**	Flange Fastener with Screw	100

Note: This product is designed for positioning only. No load rating.

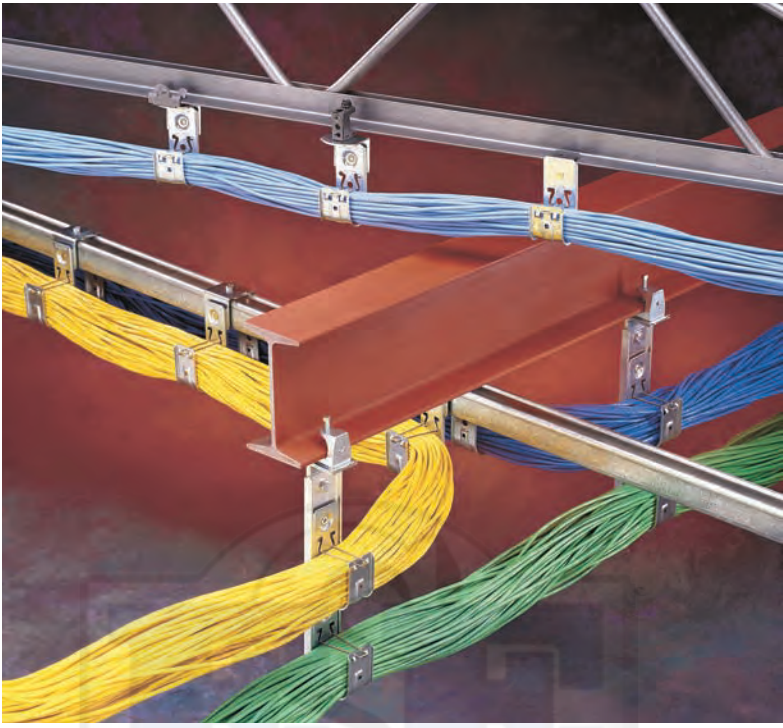


- Fastens EMT to 1 1/2" lathers channel.
- Static Load Capacity: 50 Lbs.
- Finish: Zinc Plated

Conduit Fasteners



UPC/Part Number	Catalog Number	EMT Conduit Size	Box Qty.
78101119902	**BL3-8**	1/2"	100
78101119903	**BL3-12**	3/4"	100
78101119904	**BL3-16**	1"	100
78101119905	**BL3-20**	1 1/4"	100

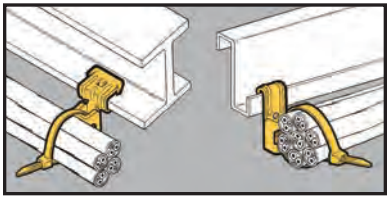












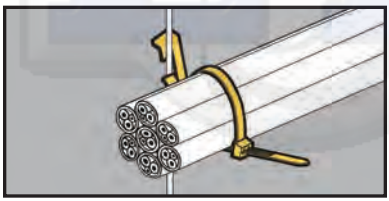
- Supports cable ties up to 9/32" wide from flanges 1/16" to 3/4" thick.
- 8" cable tie included.
- Simply installed with a hammer.

Cable Fasteners



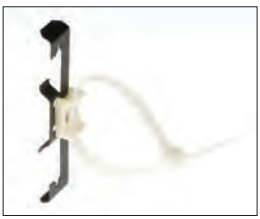


UPC/Part Number	Catalog Number	Description	Box Qty.
78101119970	**BE-2-4-CT2**	1/8" to 1/4"	100
78101119971	**BE-5-8-CT2**	5/16" to 1/2"	100
78101119972	**BE-9-12-CT2**	9/16" to 3/4"	100
78101119968	**BF1-CT2**	1/16" to 5/32"	100
78101119969	**BF2-CT2**	5/32" to 1/4"	100



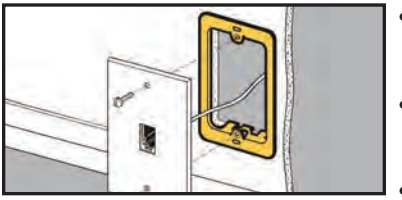
- Supports cable ties up to 9/32" wide from drop wires.
- 8" cable tie included.

Cable Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102866	**BW2-CT2**	#12 wire thru 1/4" plain or threaded rod	100
78101195603	**BW6-CT2**	3/8" plain or threaded rod	100

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

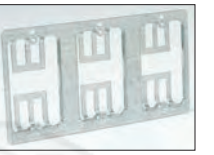


- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Accepts Decora®* style cover plates.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

Cover Plate Mounting Brackets


BB10


BB10-2


BB10-3

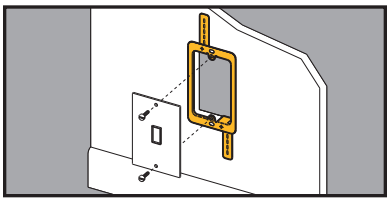

BB10-4


BB20

UPC/Part Number	Catalog Number	Description	Box Qty.
78101118150	**BB10**	Single Gang Bracket	50
78101118152	**BB10-2**	Mounts Two (2) Single Plates	10
78101119878	**BB10-3**	Mounts Three (3) Single Plates	10
78101119879	**BB10-4**	Mounts Four (4) Single Plates	10
78101118130	**BB20**	Double Gang Bracket	10

Patent # Re.33305

*** Decora® is a registered trademark of Leviton Corporation.**



- Replaces electrical box in Class 2 low voltage installations.
- Provides attachment base for low voltage outlets.
- Maximum 1 1/4" drywall thickness.
- Finish: Pre-galvanized

Cover Plate Mounting Bracket

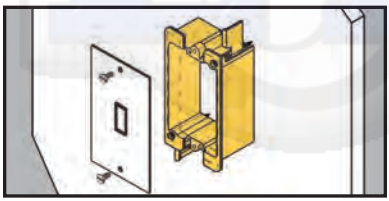


BB10L



BB20L

UPC/Part Number	Catalog Number	Description	Box Qty.
78101190895	**BB10L**	Single Gang Bracket	50
78101190896	**BB20L**	Double Gang Bracket	50



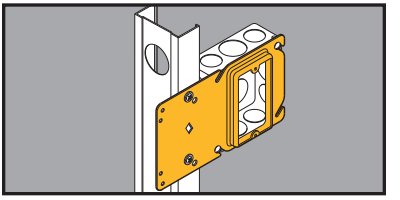
- Provides attachment base for low voltage outlets.
- Replaces electrical box in Class 2 low voltage installations.
- Design eliminates sharp edges from bracket.
- Maximum wall thickness: 3/4"

Plastic Cover Plate Mounting Bracket



UPC/Part Number	Catalog Number	Description	Box Qty.
78205139235	**BB10P**	Single Gang Bracket	50

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



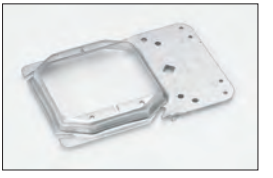
Uni-Mount Box Support/Cover Plate Mounting Brackets

- Uni-Mount offers a secure box support for 4" square boxes and features a built-in plaster ring.
- Rigid bracket design eliminates the need for far-side support.
- Replaces electrical boxes in Class 2 low voltage installations.
- Guide tabs ensure consistent alignment on studs.
- Finish: Pre-galvanized



Single Gang

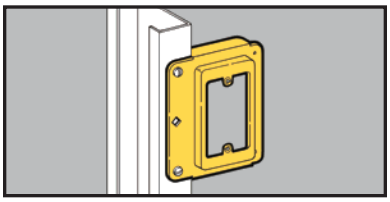
UPC/Part Number	Catalog Number	Description	Box Qty.
78205122768	**BB40-08**	1/2" Raise	50
78205122771	**BB40-10**	5/8" Raise	50
78205122772	**BB40-12**	3/4" Raise	50



Double Gang

UPC/Part Number	Catalog Number	Description	Box Qty.
78205122773	**BB45-08**	1/2" Raise	50
78205122774	**BB45-10**	5/8" Raise	50
78205122775	**BB45-12**	3/4" Raise	50

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.

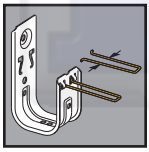


Cover Plate Mounting Bracket



- Locates communication outlets before drywall is installed.
- Replaces electrical box in Class 2 low voltage installations.
- For 1/2" and 5/8" drywall applications.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Description	Box Qty.
78101119873	**BB15**	Single Gang Stud Bracket	25



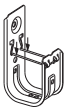


Replacement Cable Retainer Clips

- Cable retainer clips are included with all cable hook purchases.
- Provides secure containment of cables and offers quick open/close feature to add or remove cables.
- Finish: Pre-galvanized



Retainer in open position

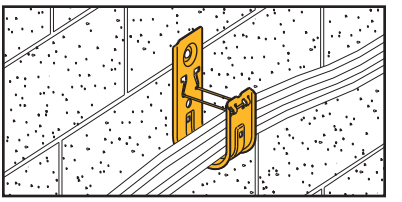


Push retainer down to lock

UPC/Part Number	Catalog Number	Cable Retainer For Hook Size	Box Qty.
78101104847	**BCHR21**	1/2" Raise	50
78101104848	**BCHR32**	5/8" Raise	50
78101104849	**BCHR64**	3/4" Raise	50

Patent #5961081

Read safety/installation instruction sheets in packages before use.
These products are designed for positioning only. No load rating.



Cable Hooks

- Supports Cat. 5/5e/6/6A fiber optic, innerduct and low voltage cabling requirements.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-Galvanized

BCH12



Open



Closed



BCH21



BCH32



BCH64

UPC/Part Number	Catalog Number	Hook Size	Capacity Up To	Box Qty.
78205128060	**BCH12**	3/4"	16 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 10 CAT6	50
78101104713	**BCH21**	1 5/16"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A	50
78101104713	**BCH32**	2"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A	50
78101104713	**BCH64**	4"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A	25

Patent #5961081

For special finish colors see page 156

(See pages 239-240 for technical data.)



Painted Cable Hooks

- Powder coated cable hooks are available in a range of colors to help meet your cable identification requirements.
- Standard riveted assemblies are available with painted cable hooks.
- Part numbers can be made by adding the paint color suffix after the cable hook part number.
- Minimum order quantity 500 pieces.
- Standard lead time is 5-10 working days.

Bright White - BW
Brown - BR
Computer White - CW
Equipment Blue - BL
Flat Black - FB
Green - GR
Orange - OR
Regal Red - RR
Safety Yellow - YL
Telcom Gray - TG

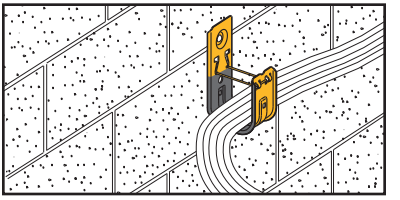
Part # Example:
Painted Cable Hook Part Number - BCH32BW
Painted Cable Hook Assembly - BCH32BW-U24



J-Hook Color ID Clip

- Color-coded clips allow for content designation without inventorying various colored hardware.
- Easy to designate pathways to prevent crossover.
- Order separtately and field install.
- Can be snapped on J-Hook after it has been installed.
- Manufactured from Underwriters Laborarories (UL) Listed material for plenum spaces.
- Suitable for 3/4", 15/16", 2", and 4" J-Hook sizes.
- Available in six (6) colors:
  Blue (BL), White (WH), Gray (GY), Orange (OR), Red (RD), and Yellow (YW).

Part # Example:
Blue Colored ID Clip Part Number
BCHID-BL12 - blue clip for BCH12 J-Hook



X-Hook Low Friction Cable Hooks

- Xylan® coating provides smooth frictionless surface for cable pulling.
- Great for use in corners, drop-outs or direction change.
- X-Hook has lower coefficient of friction than Teflon®.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.



BCH64X

New Xylan® coating reduces cable friction. Ideal for pulling cable.



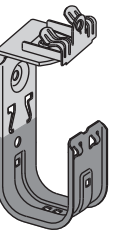
Cable rollers are too expensive and require installation and removal.

UPC/Part Number	Catalog Number	Hook Size	Capacity	Box Qty.
78205129940	**BCH21X**	1 5/16"	50 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 32 CAT6 or 18 CAT6A	50
78205129941	**BCH32X**	2"	80 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 50 CAT6 or 25 CAT6A	50
78205129942	**BCH64X**	4"	300 4-Pair UTP Cat 5e or 2-Strand Fiber Optic Cable or 185 CAT6 or 98 CAT6A	25

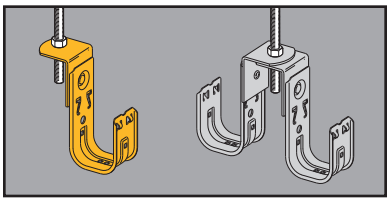
Note: For cable hook assemblies with X-Hooks add an X to the part number.

Example: BCH32X-U-2-4

(See pages 239-240 for technical data.)



Xylan® is a registered trademark used by Whitford Corporation
Teflon® is a registered trademark used by DuPont®

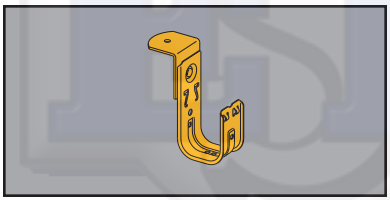


Cable To ATR Fasteners



- .505" diameter hole designed to support cable from 3/8" or 1/2" threaded rod.
- Allows back-to-back and multi-tier installations.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Hole Size	Box Qty.
78101104725	**BCH21-AB**	15/16"	.505" Diameter	50
78101104729	**BCH32-AB**	2"	.505" Diameter	50
78101104732	**BCH64-AB**	4"	.505" Diameter	25



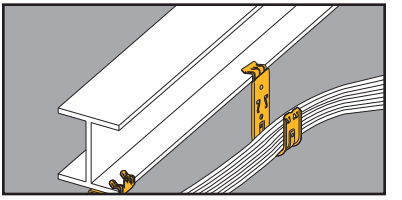
Angle Bracket Cable Fasteners



- Designed for direct attachment to structures.
- Supports cable from 1/4" threaded rod.
- .265" diameter hole accepts anchors, screws or common nails.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Hole Size	Box Qty.
78205128089	**BCH12-RB**	3/4"	.265" Diameter	50
78101104735	**BCH21-RB**	15/16"	.265" Diameter	50
78101104738	**BCH32-RB**	2"	.265" Diameter	50
78101104742	**BCH64-RB**	4"	.265" Diameter	25

(See pages 239-240 for technical data.)



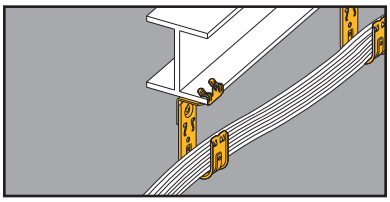
- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128067	**BCH12-E-2-4**	3/4"	1/8" to 1/4"	50
78205128072	**BCH12-E-5-8**	3/4"	5/16" to 1/2"	50
78205128073	**BCH12-E-9-12**	3/4"	9/16" to 3/4"	50
78101104803	**BCH21-E-2-4**	1 5/16"	1/8" to 1/4"	50
78101104805	**BCH21-E-5-8**	1 5/16"	5/16" to 1/2"	50
78101104807	**BCH21-E-9-12**	1 5/16"	9/16" to 3/4"	50
78101104825	**BCH32-E-2-4**	2"	1/8" to 1/4"	50
78101104827	**BCH32-E-5-8**	2"	5/16" to 1/2"	50
78101104829	**BCH32-E-9-12**	2"	9/16" to 3/4"	50

(See pages 239-240 for technical data.)



- Permits fast and easy installation on beam flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

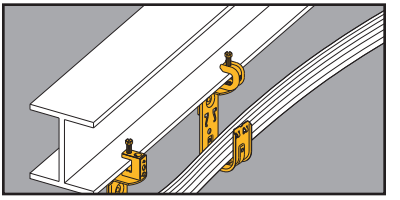
Cable To Beam Fasteners



Allows 360° Rotation

UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128062	**BCH12-U-2-4**	3/4"	1/8" to 1/4"	50
78205128064	**BCH12-U-5-8**	3/4"	5/16" to 1/2"	50
78205128066	**BCH12-U-9-12**	3/4"	9/16" to 3/4"	50
78101104809	**BCH21-U-2-4**	1 5/16"	1/8" to 1/4"	50
78101104811	**BCH21-U-5-8**	1 5/16"	5/16" to 1/2"	50
78101104813	**BCH21-U-9-12**	1 5/16"	9/16" to 3/4"	50
78101104831	**BCH32-U-2-4**	2"	1/8" to 1/4"	50
78101104833	**BCH32-U-5-8**	2"	5/16" to 1/2"	50
78101104835	**BCH32-U-9-12**	2"	9/16" to 3/4"	50
78101104864	**BCH64-U-2-4**	4"	1/8" to 1/4"	25
78101104865	**BCH64-U-5-8**	4"	5/16" to 1/2"	25
78101104866	**BCH64-U-9-12**	4"	9/16" to 3/4"	25

(See pages 239-240 for technical data.)

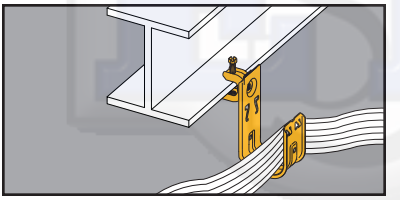


- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128077	**BCH12-C442**	3/4"	1/8" to 5/8"	50
78101104823	**BCH21-C442**	1 5/16"	1/8" to 5/8"	50
78101104845	**BCH32-C442**	2"	1/8" to 5/8"	50
78101104868	**BCH64-C442**	4"	1/8" to 5/8"	25



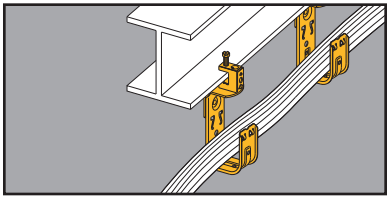
- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205141850	**BCH12-C442A**	3/4"	1/8" to 5/8"	50
78205141851	**BCH21-C442A**	1 5/16"	1/8" to 5/8"	50
78205141852	**BCH32-C442A**	2"	1/8" to 5/8"	50
78205141853	**BCH64-C442A**	4"	1/8" to 5/8"	25

(See pages 239-240 for technical data.)

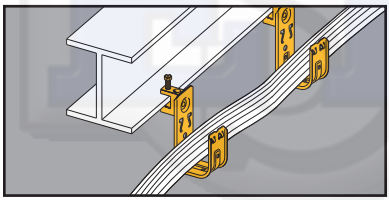


- 360° rotation allows cable to run in any direction.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128074	**BCH12-C2**	3/4"	thru 1/2"	50
78101104821	**BCH21-C2**	1 5/16"	thru 1/2"	50
78101104843	**BCH32-C2**	2"	thru 1/2"	50
78101104867	**BCH64-C2**	4"	thru 1/2"	25



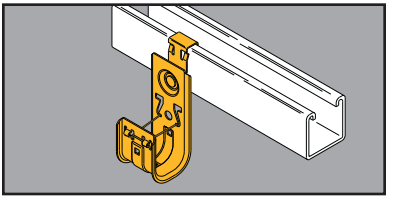
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Beam Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205141303	**BCH12-C1**	3/4"	thru 1/2"	50
78101195578	**BCH21-C1**	1 5/16"	thru 1/2"	50
78101195560	**BCH32-C1**	2"	thru 1/2"	50
78205141304	**BCH64-C1**	4"	thru 1/2"	25

(See pages 239-240 for technical data.)



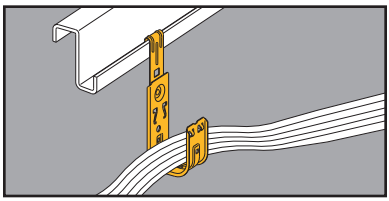
Cable Hook To Strut Attachment

- BSC4 provides a simple snap-on attachment to strut, eliminating the need for tools or drilling.
- Cable retainer clips are included with hooks.
- Great for retrofit applications.
- Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



UPC/Part Number	Catalog Number	Cable Hook Size	Box Qty.
78205146574	**BCH12-SC4**	3/4"	50
78205146575	**BCH21-SC4**	1 5/16"	50
78205146576	**BCH32-SC4**	2"	50
78205146583	**BCH64-SC4**	4"	50

(See pages 239-240 for technical data.)

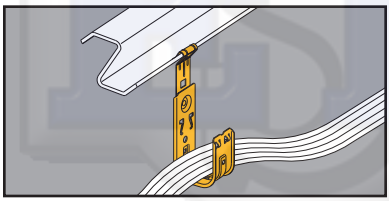


- Supports cable from vertical flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Flange Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128078	**BCH12-F3**	3/4"	1/16" to 1/4"	50
78101104815	**BCH21-F3**	1 5/16"	1/16" to 1/4"	50
78101104837	**BCH32-F3**	2"	1/16" to 1/4"	50
78101104869	**BCH64-F3**	4"	1/16" to 1/4"	25



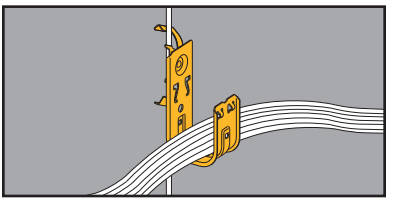
- Supports cable from angled flanges.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

Cable To Flange Fasteners



UPC/Part Number	Catalog Number	Hook Size	Flange Thickness	Box Qty.
78205128079	**BCH12-F4**	3/4"	1/16" to 1/4"	50
78101104817	**BCH21-F4**	1 5/16"	1/16" to 1/4"	50
78101104839	**BCH32-F4**	2"	1/16" to 1/4"	50
78101104870	**BCH64-F4**	4"	1/16" to 1/4"	25

(See pages 239-240 for technical data.)



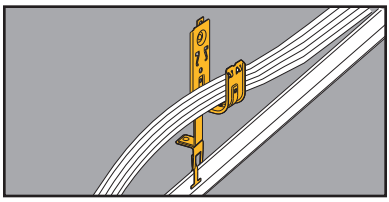
Cable To Wire and Rod Fasteners

- Supports cable from #12 wire thru 3/8" threaded rod.
- Cable retainer clips are included with hooks.
- W2 series attaches to #12 wire thru 1/4" plain or threaded rod.
- W6 series attaches to 3/8" plain or threaded rod.
- Static Load Capacity: 25 Lbs.
- Finish: Pre-galvanized



UPC/Part Number	Catalog Number	Description	Box Qty.
78205146573	**BCH12-W2**	3/4"	50
78101104819	**BCH21-W2**	1 5/16"	50
78101104841	**BCH32-W2**	2"	50
78205128082	**BCH12-W6**	3/4"	50
78101195567	**BCH21-W6**	1 5/16"	50
78101195569	**BCH32-W6**	2"	50

(See pages 239-240 for technical data.)



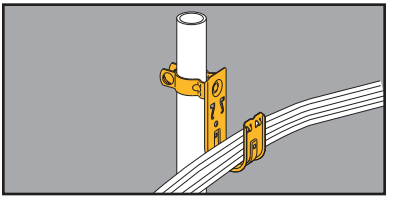
Cable To T-Bar Fasteners

- Supports cable above ceiling grid and allows 360° rotation.
- Provides compliance with the EIA/TIA requirements.
- Permits dropwire attachment if required.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized



UPC/Part Number	Catalog Number	Description	Box Qty.
78205128083	**BCH12-A28**	3/4"	50
78101104857	**BCH21-A28**	1 5/16"	50
78101104858	**BCH32-A28**	2"	50

(See pages 239-240 for technical data.)

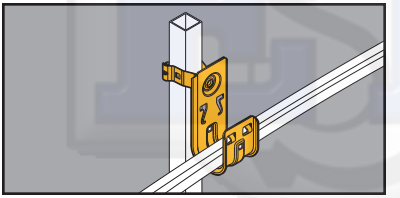


Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Floor Post Size	Box Qty.
78205128085	**BCH12-L1410**	3/4"	1" O.D.	50
78101104851	**BCH21-L1410**	1 5/16"	1" O.D.	50
78101104855	**BCH32-L1410**	2"	1" O.D.	50
78101104871	**BCH64-L1410**	4"	1" O.D.	25



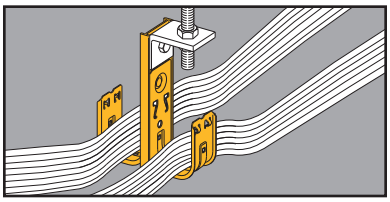
Cable To Floor Support Fasteners



- Supports cable from computer floor post.
- Organizes cable off the floor for a neat installation.
- Cable retainer clips are included with hooks.
- Static Load Capacity: 30 Lbs.
- Finish: Pre-galvanized

UPC/Part Number	Catalog Number	Hook Size	Floor Post Size	Box Qty.
78205128086	**BCH12-G-8-12**	3/4"	1" Square	50
78101172487	**BCH21-G-8-12**	1 5/16"	1" Square	50
78101172489	**BCH32-G-8-12**	2"	1" Square	50
78101172491	**BCH64-G-8-12**	4"	1" Square	25

(See pages 239-240 for technical data.)



Double-Sided Multi-Tier Cable Fasteners

- Factory assembled multi-tier fasteners speed up installation.
- Unique design prevents hook and assembly rotation when pulling cable.
- All support bars furnished in 6063-T6 aluminum.
- Shown with optional BCHK2 kit.
- Cable retainer clips are included with hooks.
- Static Load Capacity: (per hook) 30 Lbs.
- Finish: Pre-galvanized



1D

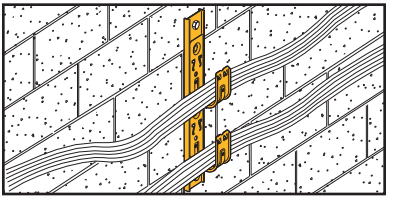


2D

UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104758	**BCH21-1D**	1 5/16"	1 Tier, 2-Sided, 5 1/2" High	20
78101104762	**BCH32-1D**	2"	1 Tier, 2-Sided, 6 3/16" High	25
78101104874	**BCH64-1D**	4"	1 Tier, 2-Sided, 9" High	10
78101104766	**BCH21-2D**	1 5/16"	1 Tier, 2-Sided, 9 1/4" High	10
78101104770	**BCH32-2D**	2"	1 Tier, 2-Sided, 11" High	10
78101104875	**BCH64-2D**	4"	1 Tier, 2-Sided, 18 1/4" High	10

Patent #5961081

(See pages 239-240 for technical data.)



Single-Sided Multi-Tier Cable Fasteners

- Factory assembled multi-tier fasteners speed up installation.
- Available in two-six tier assemblies.
- Unique design prevents hook and assembly rotation when pulling cable.
- Cable retainer clips are included with hooks.
- All support bars furnished in 6063-T6 aluminum.
- Static Load Capacity: 30 Lbs. (per hook)



2S



3S

UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104773	**BCH21-2S**	$1\frac{5}{16}$"	2 Tier, 1-Sided, 11" Overall Height	20
78101104776	**BCH32-2S**	2"	2 Tier, 1-Sided, $12\frac{3}{4}$" Overall Height	25
78101195300	**BCH64-2S**	4"	2 Tier, 1-Sided, $19\frac{5}{16}$" Overall Height	10
78101104779	**BCH21-3S**	$1\frac{5}{16}$"	3 Tier, 1-Sided, $14\frac{3}{4}$" Overall Height	10
78101104782	**BCH32-3S**	2"	3 Tier, 1-Sided, $17\frac{1}{2}$" Overall Height	10
78101195303	**BCH64-3S**	4"	3 Tier, 1-Sided, $28\frac{1}{16}$" Overall Height	10

Patent #5961081

(See pages 239-240 for technical data.)







UPC/Part Number	Catalog Number	Hook Size	Description	Box Qty.
78101104785	**BCH21-4S**	$1\frac{5}{16}$"	4 Tier, 1-Sided, $18\frac{1}{2}$" Overall Height	10
78101104788	**BCH32-4S**	2"	4 Tier, 1-Sided, $21\frac{3}{4}$" Overall Height	10
78101197872	**BCH64-4S**	4"	4 Tier, 1-Sided, $36\frac{13}{16}$" Overall Height	10
78101104791	**BCH21-5S**	$1\frac{5}{16}$"	5 Tier, 1-Sided, $21\frac{3}{4}$" Overall Height	10
78101104794	**BCH32-5S**	2"	5 Tier, 1-Sided, 27" Overall Height	10
78101104797	**BCH21-6S**	$1\frac{5}{16}$"	6 Tier, 1-Sided, 26" Overall Height	10
78101104800	**BCH32-6S**	2"	6 Tier, 1-Sided, $31\frac{3}{4}$" Overall Height	10

Patent #5961081

(See pages 239-240 for technical data.)



Shown with BRC5 Brackets



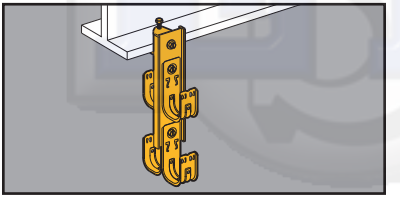
Shown with Cable Hooks

Multi-Tier Support Bar

- The BCH-HBA combines a tiered support bar and angle bracket into one piece.
- More flexibility! The BCH-HBA can be supported from 3/16", 1/4", 5/16" or 3/8" rod.
- Mounts up to three BCH21 or BCH32 cable hooks or two BCH64 cable hooks per side.
- Mounts up to three BRC5 MC/AC cable support brackets per side.
- Load Capacity: 180 lbs.



UPC/Part Number	Catalog Number	Description	Box Qty.
78205143819	**BCH-HBA**	Multi-Tier Support Bar	40



Multi-Tier Cable Hook Kits

- Support bars furnished in 6063-T6 aluminum.



BCH-HB Support Bars

UPC/Part Number	Catalog Number	Description	Box Qty.
78101199572	**BCH-HB21**	Support Bar for BCH21 and BCH32 8 1/4" long with .281Ø holes	20
78101199574	**BCH-HB64**	Support Bar for BCH64 13 5/16" long with .281Ø holes	20

(See pages 239-240 for technical data.)

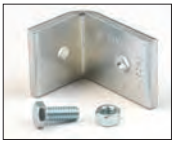
Multi-Tier Attachment Kits

- BCHK1 includes: Beam clamp (B444-1/4) and 1/4"-20 x 1/2" hex head cap screw



BCHK1

- BCHK2 includes: Angle bracket (.320"Ø and .390"Ø holes) and 1/4"-20 x 1/2" hex head cap screw



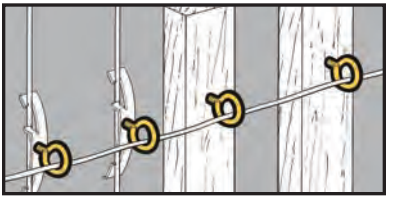
BCHK2

- BCHK3 includes: 1 each BCHK1 Kit and BCHK2 Kit



BCHK3

UPC/Part Number	Catalog Number	Kit Description	Flange Thickness	Box Qty.
78101104872	**BCHK1**	Beam Clamp	Thru 1/2"	10
78101104860	**BCHK2**	Angle Bracket	–	10
78101104873	**BCHK3**	Beam Clamp	Thru 1/2" with Angle Bracket (swivels 360°)	10



- Supports low voltage communication cables from beams or rods when used with other fasteners.
- *Ultimate Static Load Capacity:* 50 Lbs.
- Finish: Zinc Plated

Threaded Bridle Rings

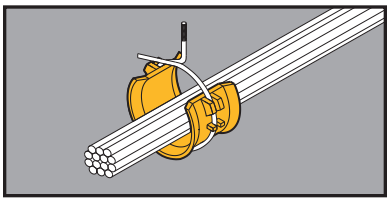


UPC/Part Number	Catalog Number	Ring Size	Thread Size x Thread Length	Box Qty.
78101119550	**BR-8-T**	1/2"	#10-24 x 9/16"	100
78101119555	**BR-12-T**	3/4"	#10-24 x 9/16"	100
78101119560	**BR-20-T**	1 1/4"	#10-24 x 9/16"	100
78101119570	**BR-32-T**	2"	#10-24 x 9/16"	100
78101119565	**BR-20-4T**	1 1/4"	1/4"-20 x 9/16"	100
78101119575	**BR-32-4T**	2"	1/4"-20 x 9/16"	100
78101119889	**BR-64-4T**	4"	1/4"-20 x 9/16"	50



Lag Screw for Wood Beams

UPC/Part Number	Catalog Number	Ring Size	Thread Size x Thread Length	Box Qty.
78101119875	**BR-16-3W**	1"	#10 x 9/16"	100
78101119886	**BR-24-4W**	1 1/2"	1/4" x 27/32"	100
78101119876	**BR-32-4W**	2"	1/4" x 7/8"	100



- The convenience of a bridle ring with the cable-bearing surface of a hook.
- 2″ saddle is available separately. Can be easily attached before or after cable installation.

Bridle Ring Saddles



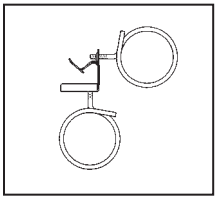
BRS-64A

BRS-32A

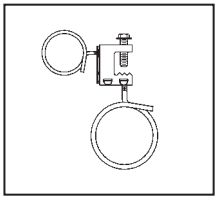
BRS-32

UPC/Part Number	Catalog Number	Thread Size x Thread Length/ Description	Box Qty.
78205122761	**BRS-32A**	1/4″-20 x 7/8″ 2″ Ring Assembly	50
78205122762	**BRS-64A**	1/4″-20 x 1″ 4″ Ring Assembly	25
78205122759	**BRS-32**	2″ Saddle Only	50

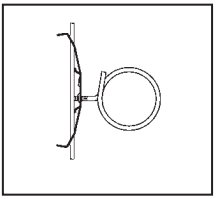
Also available for use with the following B-Line Fasteners.



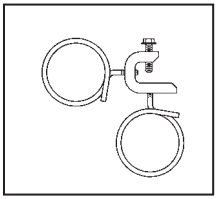
BU-9-12



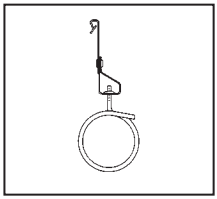
BC1



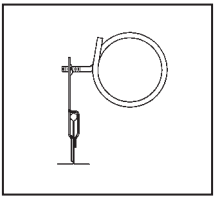
BW2



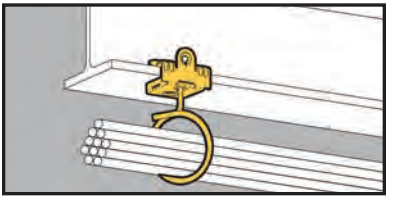
BC442



BH4-F3



BA5-4T

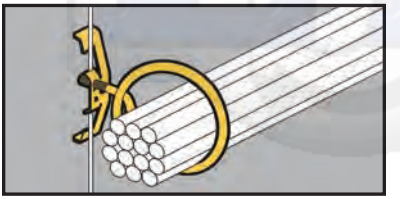


Bridle Ring/Beam Fastener Assy.

- Supports low voltage communication cables from beam flanges 1/8" to 3/4" thick.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102921	**BR-32-4T-U-2-4**	1/8" to 1/4"	50
78101102923	**BR-32-4T-U-5-8**	5/16" to 1/2"	50
78101102924	**BR-32-4T-U-9-12**	9/16" to 3/4"	50

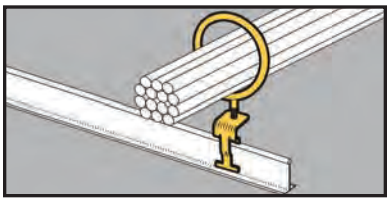


Bridle Ring/Rod & Wire Fastener Assy.

- Supports low voltage communication cables from drop wire.
- Pre-assembled with 2" bridle ring.
- Reduces installation time.
- Static Load Capacity : 15 lbs.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102929	**BR-32-4T-W2**	#12 Wire Thru 1/4" Plain or Threaded Rod	50

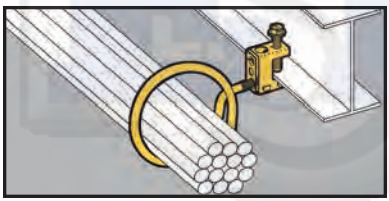


- Supports low voltage communication cables above the T-Bar.
- Pre-assembled with 2″ bridle ring.
- Reduces installation time.
- For positioning only - No Load Rating

Bridle Ring/T-Bar Fastener Assembly

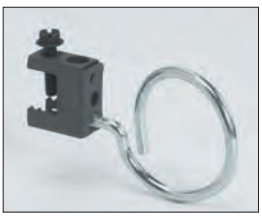


UPC/Part Number	Catalog Number	Description	Box Qty.
78101102934	**BR-32-4T-A6**	2″ Ring Size	50



- Supports low voltage communication cables from beam flanges thru 1/2″ thick.
- Pre-assembled with 2″ bridle ring.
- Reduces installation time.
- Static Load Capacity: 15 lbs.

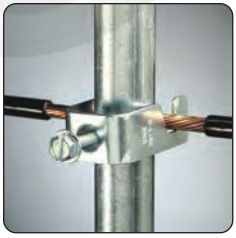
Bridle Ring/Beam Fastener Assembly



UPC/Part Number	Catalog Number	Description	Box Qty.
78101102937	**BR-32-4T-C1**	2″ Ring Size	50

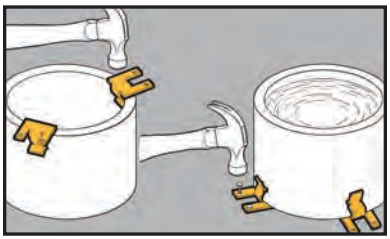










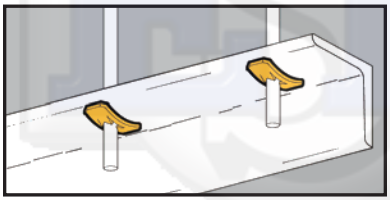


- Allows for rigid attachment of pipe sleeves to wall and floor forms for concrete pouring.
- Accommodates Schedule 40, Schedule 80, or 5/16" and smaller wall thickness.

Pipe Sleeve Fasteners



UPC/Part Number	Catalog Number	Sleeve Diameter	Wall Thickness	Box Qty.
78101118285	**BD40**	All Dia.	5/16" & Under	100
78101118285	**BD40**	2" to 6"	Schedule 40 Pipe	100



- Push Nuts designed for use with plain rod.
- "U" Nuts provide 1/4"-20 thread impression for unthreaded hole.
- No installation tools required.

Accessory Nuts

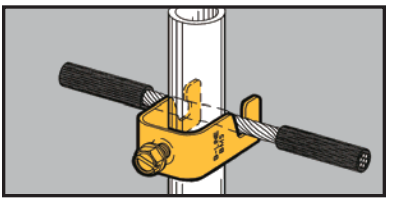


BN-2, BN-4, BN-6 Push Nuts



BN1 "U" Nuts With Thread Impression

UPC/Part Number	Catalog Number	Rod/Wire Size	Static Load Capacity	Box Qty.
78101110115	**BN-2**	#8 Wire	100 lbs. thru 3/8" hole	100
78101119120	**BN-4**	1/4" Plain Rod	100 lbs. thru 3/8" hole	100
78101119125	**BN-6**	3/8" Plain Rod	200 lbs. thru 1/2" hole	100
78101119110	**BN1**	1/4" Threaded Rod	50 lbs. on 9/32" hole	100

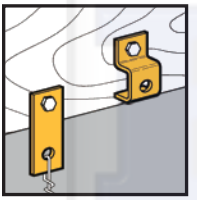


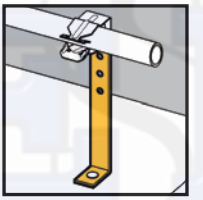
- Attaches signal reference grid wire to computer floor posts.
- Fits #8 thru #4 stranded wire. (.146" O.D. thru .232" O.D.).
- Fits 3/4" to 1" round or square posts.

Reference Wire Fasteners



UPC/Part Number	Catalog Number	Description	Box Qty.
78101101659	**BM5**	Single Reference Grid Wire Fastener	100





- Brackets are easily attached with screws or drive pins to wood, concrete or steel structures.
- Brackets are adaptable for use with a wide variety of fasteners, wires, "S" hooks and hangers.



BD2

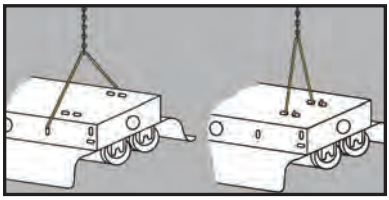


BD4



BA28B

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101686	**BD2**	Flat Bracket	100
78101118280	**BD4**	Offset Bracket	100
78101101449	**BA28B**	Angle Bracket	50



- For hanging industrial class fluorescent lighting fixtures.
- Use with Jack Chain and "S" Hooks.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

Light Fixture Hangers

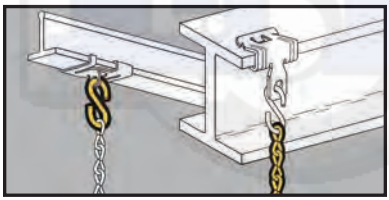


BH15



BH16

UPC/Part Number	Catalog Number	Description	Box Qty.
78101101236	**BH15**	Side Mount Fluorescent Light Fixture Hanger	100
78101101237	**BH16**	Top Mount Fluorescent Light Fixture Hanger	100



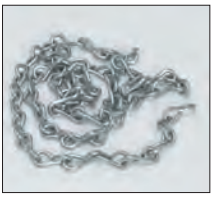
- For support of light fixtures and signs.
- Static Load Capacity: 29 Lbs.
- Finish: Zinc Plated

Jack Chain & "S" Hooks



BH10

BH9
BH9-10



UPC/Part Number	Catalog Number	Description	Box Qty.
78101118850	**BH9**	#12 Single Jack Chain	100 ft.
78101102901	**BH9-10**	#10 Single Jack Chain	100 ft.
78101118855	**BH10**	#11 "S" Hook	50



KwikWire™ Clamps

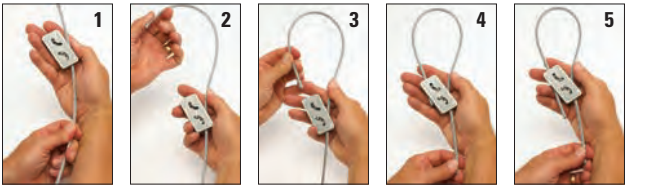
- KwikWire™ system replaces jack chain or ATR to support lighting, ductwork, cable tray, etc.
- Can be quickly installed around beams - No drilling required.
- Ideal for sloped ceilings - can hang objects at up to 60° angles.
- Simple height adjustments are made by releasing locking tab, no tools required.
- Spools of wire can be cut to length in field, reducing waste and up front planning.

UPC/Part Number	Catalog Number	For Use With Wire Rope Diameters	Box Qty.
78205140719	**BKC100**	1/16" & 3/32"	100
78205140723	**BKC200**	1/8" & 3/16"	50

KwikWire Clamp Working Loads*

Clamp Part No.	Wire Rope Dia.	Lbs. Safety Factor 5
BKC100	1/16"	0-75
	3/32"	25-150
BKC200	3/32"	25-150
	1/8"	25-250
	3/16"	50-640

** Working loads shown are for hanging vertically. For suspending at 15°, 30°, 45° or 60° angles from vertical use the following percentage of the working loads from the chart: 15° = 96%, 30° = 86%, 45° = 70%, 60° = 50%*



1. Pass the wire through the KwikWire Clamp
2. Loop wire through/around support
3. Pass wire back through KwikWire Clamp
4. Push wire through clamp leaving 2" to 3" tail, then apply tension on wire
5. To adjust, remove tension and pull wire slightly to disengage teeth, slide adjustment pin in direction shown by arrow to release wire.







7 x 7



7 x 19

KwikWire™ Wire Rope

UPC/Part Number	Catalog Number	Wre Diameter	Working Load - Lbs.	Spool Qty.
78205140725	**BKW063** (1)	1/16"	96	500 ft.
78205140727	**BKW094** (1)	3/32"	184	500 ft.
78205140733	**BKW125** (1)	1/8"	340	500 ft.
78205140734	**BKW188** (2)	3/16"	840	250 ft.

(1) Wire rope construction Type 7 x 7
(2) Wire rope construction Type 7 x 19
Uncoated Galvanized Wire



- KwikPak™ includes a supply of kwik-clamps and a spool of wire rope.
- KwikPak are shipped in a specially designed dispenser box to ease field cutting of wire.

KwikPak™

UPC/Part Number	Catalog Number	Kit Includes	Box Qty.
78205140749	**BKP10063**	BKC100 (100 pcs.) 1/16"Ø Wire Rope (500 ft.)	1
78205140751	**BKP10094**	BKC100 (100 pcs.) 3/32"Ø Wire Rope (500 ft.)	1
78205140761	**BKP20125**	BKC200 (50 pcs.) 1/8"Ø Wire Rope (500 ft.)	1
78205140763	**BKP20188**	BKC200 (50 pcs.) 3/16"Ø Wire Rope (250 ft.)	1





- KwikWire™ hanger combines the versatility of a bolt with an adjustable wire rope solution.
- Can be quickly installed in existing anchors or metal brackets with a nut.
- Ideal for supporting light fixtures, wire basket cable tray, HVAC ducts, and sign/banner supports.
- See page 182 for wire rope spools.

KwikWire™ Hanger

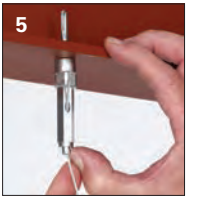
UPC/Part Number	Catalog Number	Thread Size	Wire Rope Diameter	Load SF5	Box Qty.
78205158764	**BKF100-4**	1/4"-20	1/16" 3/32"	45 lbs. 90 lbs.	100
78205158765	**BKF100-6**	3/8"-16	1/16" 3/32"	45 lbs. 90 lbs.	100













1. Screw KwikWire Hanger into installed hanger support
2. Push wire up through the bottom of KwikWire Hanger
3. Continue pushing through until 1/4" minimum is extending out the side of the KwikWire Hanger
4. To adjust up - pull or push more wire through KwikWire Hanger
5. To adjust down - push up on bottom of KwikWire Hanger and allow wire to feed down
6. When hanging the wire is complete, cut off any excess cable wire if desired

KwikWire™ Accessories



Loop Termination

- Available as a wire rope with loop termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".





Single & "Y" Style Hook Termination

- Hook designed to accept up to 3/8" diameter wire.
- Available as a wire rope with hook termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles





Single & "Y" Style Toggle Termination

- Available as a wire rope with toggle termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) leg styles
- All triple (3) leg styles are non-stock, consult B-Line for lead times



Bolt Loop Termination

- Ideal for use with ARS, ARC, ADI, ACPW, or ACPD anchors.
- Available as a wire rope with bolt termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".
- Available in single, double (Y), and triple (3) styles
- All double (Y) and triple (3) styles are non-stock, consult B-Line for lead times

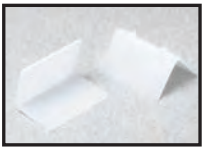


Angle Bracket Termination

- Available as a wire rope with angle bracket termination only or as a ready-to-use kit with a BKC100 clamp.
- Available in lengths of 40", 80", 120", 180", 240", and 360".

For additional options, refer to KwikWire Brochure (KWHS)

Accessories


BKCP


B601-62


BKCC

KwikWire™ Accessories

UPC/Part Number	Catalog Number	Description	Box Qty.
78205140766	**BKCP**	Air Duct Corner Protector	100
78101156059	**B601-62**	Air Duct Support	50
78205140297	**BKCC ***	Wire Rope Cutter	1

Danger: Never use cutters on energized circuits, wire, or cable.

Note: Additional accessories include BE Series (pg. 96), BF Series (pgs. 125 & 129), and BPNA Series (pg. 139)

** Not for use of cutting 3/16" diameter cable.*

KwikWire™ System Recommendations:

- *Do not exceed the safe working load of the products shown in their charts*
- *All characteristics of KwikWire must be used with wire supplied by B-Line*
- *Do not use for overhead lifting or hoisting*
- *Do not use if cable or components are visibly distorted or worn, remove damaged cable end prior to inserting in KwikWire™ Clamp*
- *Do not paint cable near working area of KwikWire Clamp connector*
- *Do not apply lubricant*
- *Keep product clean and free of dirt*
- *Do not use on coated wire rope*
- *Do not use in chlorinated or caustic atmospheres*
- *For use in dry locations*
- *Cooper's BKCC tool is recommended for cutting wire rope to prevent fraying*
- *For use on vertical applications only*

Application Photos









UPC/Part Number	Catalog Number	Description	Box Qty.
78101101687	**SHHMS 1/4x1/2**	1/4"-20 x 1/2" Slotted Hex Head Machine Screw	100



UPC/Part Number	Catalog Number	Description	Box Qty.
78101142103	**MSQN1/4**	1/4"-20 Machine Square Nut	100



UPC/Part Number	Catalog Number	Description	Box Qty.
78101110675	**BWHS-9**	Sheet Metal Screw #8 x 9/16"	1000

Note: BWHS-9 can be used with all fasteners requiring attachments with sheet metal screws.



UPC/Part Number	Catalog Number	Description	Box Qty.
78101104925	**BWHS-9D**	#8 x 1/2" Self-Drilling Sheet Metal Screw	1000

Note: BWHS-9D can be used with all fasteners requiring attachment with sheet metal screws except BB2-16, BB2-16D, BB2-24 & BB2-24D.











Glossary

Prefix - Description	Screw Dia.	Length	Suffix
ACB - Concrete Anchor Bolt	4 - #4	75 - 3/4"	AN - Acorn Nut
ACPD - Bang-IT	6 - #6	81 - 13/16"	CH - Combo Head
ACPW - Wood-Knocker	8 - #8	87 - 7/8"	F - Flat
ACS - Concrete Screw	10 - #10	100 - 1"	FL - Flanged
ADA - Drive Anchor	12 - 1/8"	118 - 1 3/18"	H - Hex
ADE - Double Expansion Anchor	18 - 3/16"	125 - 1 1/4"	HN - Hex Nut
ADH - Hollow-Base Drop-IN	25 - 1/4"	150 - 1 1/2"	HS - Hole Saw
ADI - Drop-In	31 - 5/16"	175 - 1 3/4"	K - Kit
ADM - Mini Drop-In	37 - 3/8"	187 - 1 7/8"	M - Mushroom
ADN - Drive Nail	50 - 1/2"	200 - 2"	OH - Oval Head
AMS - Machine Screw	62 - 5/8"	225 - 2 1/4"	PH - Pan Head
APC - Conical Anchor	75 - 3/4"	250 - 2 1/2"	RH - Rod Hanger
APD - Plastic Driller	87 - 7/8"	275 - 2 3/4"	RS - Slotted Round Head
APDM - Plastic Driller - Mini		300 - 3"	
APH - Plastic Hollow Wall Anchor		325 - 3 1/4"	SS4 - 304 Stainless Steel
APS - Plastic Screw Anchor		350 - 3 1/2"	
ARC - Rapid Rod™ Concrete		375 - 3 3/4"	T - Tool
ARS - Rapid Rod™ Steel		400 - 4"	WH - Wire Hanger
ARW - Rapid Rod™ Wood		425 - 4 1/4"	
ASA - Sleeve Anchor		450 - 4 1/2"	
ASE - Single Expansion Anchor		500 - 5"	
ATB - Toggle Bolt		525 - 5 1/4"	
ATM - Self-Tapping Machine Screw Anchor		550 - 5 1/2"	
		600 - 6"	
AWA - Wedge Anchor		700 - 7"	
AWSD - Seismic Wedge Anchor			
AWS - Wall Screw			
AZD - Zinc Driller			
AZDM - Zinc Driller-Mini			

Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Steel rapid rods can be installed with a screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers Steel

Steel Rapid Rod - Data		
Point Style	#3	#5
Self-Drilling Range (in.)	20 ga. - 3/16	3/16 - 1/2
Screw Size (UNC) *	1/4"-20	1/4"-20
Thread Length (in.) *	1 3/16	31/32

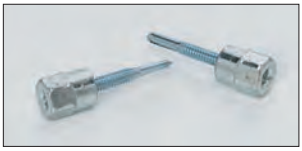
* Dimensions for self-drilling (embedded) portion of anchor.

Steel Rapid Rod - Load Data

Rod/ Anchor Size	Minimum Steel Gauge Thickness						
	20 (.036")	18 (.048")	16 (.060")	14 (.075")	12 (.105")	3/16"	1/4"
1/4	100	155	245	290	390	800	1260
1/4 w/nut	390	390	440	440	510	960	510
3/8	100	155	245	290	390	490	490
3/8 w/nut	365	365	365	365	365	365	365
1/2	120	175	230	390	510	820	1260

Loads shown for ASTM A36 steel beams and ASTM A572 steel purlins include a safety factor of 4.
For UL & FM listings, steel rapid rod must be installed with a retaining nut.
UL & FM load rating for 3/8" rapid rod is 365 lbs. and can support up to a maximum 4" pipe.
UL & FM load rating for 1/2" rapid rod is 900 lbs. and can support up to a maximum 6" pipe.

Rapid Rod™ Hangers



UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
Steel Rod Hanger - Point Style #3 For Purlins				
78205153317	**ARS-25-100**	1/4"	1/4" x 1"	100
78205153318	**ARS-37-200**	3/8"	1/4" x 2"	100
78205153320	**ARS-37-100HN****	3/8"	1/4" x 1" w/nuts	100
78205153321	**ARS-37-150**	3/8"	1/4" x 1 1/2"	100
78205153322	**ARS-37-150HN****	3/8"	1/4" x 1 1/2" w/nuts	100
Steel Rod Hanger - Side Mount - Point Style #3 For Purlins				
78205153323	**ARS-25-100SW**	1/4"	1/4" x 1"	100
78205153324	**ARS-37-100SW**	3/8"	1/4" x 1" w/nuts	100
Steel Rod Hanger - Point Style #5 For Purlins				
78205153325	**ARS-25-150HD**	1/4"	#12-24 x 1 1/2"	100
78205153326	**ARS-37-150HDHN****	3/8"	#12-24 x 1 1/2" w/nuts	100
78205153327	**ARS-50-150HDHN****	1/2"	#12-24 x 1 1/2" w/nuts	100

** For UL & FM listings, steel rapid rod should be installed with a retaining nut.

UPC/Part Number	Catalog Number	Tool Description	Box Qty.
Tool			
78205153287	**7187**	Universal Steel & Wood Socket	1

Rapid Rod™ Hangers

- One-piece, all steel threaded fastener system for suspending steel threaded rod.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Side Mount (SW) available for side mounting applications.
- Lower in-place cost, when compared to beam clamps, lag bolts and drop-ins.
- Wood rapid rods can be installed with a screw gun or hammer drill.
- Concrete Rapid Rod hangers can be installed with an adjustable torque, battery powered screw gun or hammer drill.
- UL & FM approved.
- Made of Zinc Plated carbon steel.

Rapid Rod Hangers - Concrete

Concrete Rapid Rod - Data	1/4"	3/8"	1/2"
ANSI Drill Bit (in.)	1/4	1/4	3/8
Thread Length (in.)	1 1/8	1 3/8	2 1/2
Min. Embedment Depth (in.)	1 1/4	1 1/2	2 3/4
Load Capacity Tension (lbs.) *	485	650	1510
Load Capacity Shear (lbs.) *	610	660	1580

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.
FM approved load capacity for 3/8" anchor is 365 lbs., maximum 4" pipe size. FM approved load capacity for 1/2" anchor is 950 lbs., maximum 8" pipe size.

Rapid Rod Hangers - Wood

Wood Rapid Rod - Data	1/4" Thread Forming	3/8" Thread Forming
Pre-Drill Diameter (in.)	1/8	1/8
Point Style	Type 17	Type 17

Wood Rapid Rod - Embedment & Load Data				
Rod/Anchor Size	Embedment Depth	Fir	Pine	Spruce
1/4	1"	170	160	160
3/8	2"	375	375	375
1/2	2 1/2"	665	775	775

Minimum load ratings are based on a safety factor of 4.
UL approved load capacity for 3/8" rod sizes and 1/4" screw size is 260 lbs., maximum 3" pipe. UL approved load capacity for 3/8" rod sizes and 3/8" screw size is 375 lbs., maximum 4" pipe. FM approval only applies to 3/8" x 2 1/2" screw size. Approved for 365 lbs., up to 4" pipe.

Rapid Rod™ Hangers


ARC Series


ARW Series

UPC/Part Number	Catalog Number	Rod Size	Shank Size & Length	Box Qty.
Concrete Rod Hanger - ANSI Wedge-Bolt OT Thread Shank Style				
78205153328	**ARC-25-125**	1/4"	1/4" x 1"	100
78205153329	**ARC-37-150**	3/8"	1/4" x 1 1/2"	100
78205153330	**ARC-50-275**	1/2"	3/8" x 2 3/4"	50
For side mount concrete applications use ARW-25-100SW or ARW-37-200SW with 1/4" drill bit.				
Wood Rod Hanger - Point Style Type 17				
78205153331	**ARW-25-200**	1/4"	1/4" x 2"	100
78205153332	**ARW-37-100**	3/8"	1/4" x 1"	100
78205153333	**ARW-37-200**	3/8"	1/4" x 2"	100
78205153334	**ARW-37-250**	3/8"	3/8" x 2 1/2"	100
78205153335	**ARW-50-250**	1/2"	1/2" x 2 1/2"	100
Wood Rod Hanger - Side Mount - Point Style Type 17				
78205153336	**ARW-25-100SW**	1/4"	1/4" x 1"	100
78205153337	**ARW-37-200SW**	3/8"	1/4" x 2"	100

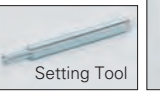
UPC/Part Number	Catalog Number	Tool Description	Box Qty.
Tools			
78205153287	**7187**	Universal Steel & Wood Socket	1
78205153288	**7195**	1/4" Concrete Socket	1
78205153289	**7197**	3/8" Concrete Socket	1
78205153290	**7198**	1/2" Concrete Socket	1
78205153360	**5874**	Concrete Tapper Sleeve Assy.	1
78205153361	**5866**	1/4" X 6" Hex Shank SDS Drill Bit	1

Drop-in Anchors

- Designed for use in solid concrete.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- UL & FM approved.
- Available in Zinc Plated finish or Stainless Steel.


Smooth Wall


Flanged


Setting Tool

Drop-In Anchors - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	40	80
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Min. Embedment Depth (in.)	1	1 9/16	2	2 1/2	3 3/16
Load Capacity Tension (lbs) *	495	1045	1440	1860	3600
Load Capacity Shear (lbs) *	530	1145	1600	3095	3920

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

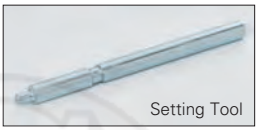
UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Thread Depth	Box Qty.
Drop-In Anchor - Smooth Wall - Steel					
78101103218	**ADI-25**	1/4"	1"	7/16"	100
78101103219	**ADI-37**	3/8"	1 9/16"	5/8"	50
78101103220	**ADI-50**	1/2"	2"	13/16"	50
78101103221	**ADI-62**	5/8"	2 1/2"	1 13/16"	25
78101103222	**ADI-75**	3/4"	3 3/16"	1 3/8"	10
Drop-In Anchor - Smooth Wall - StainlessSteel					
78101103223	**ADI-25SS4**	1/4"	1"	7/16"	100
78101103224	**ADI-37SS4**	3/8"	1 9/16"	5/8"	50
78101103226	**ADI-50SS4**	1/2"	2"	13/16"	50
78101103227	**ADI-62SS4**	5/8"	2 1/2"	1 13/16"	25
78101103228	**ADI-75SS4**	3/4"	3 3/16"	1 3/8"	10
Drop-In Hanger - Flanged - Steel					
78205153297	**ADI-25FL**	1/4"	1"	7/16"	100
78205153298	**ADI-37FL**	3/8"	1 9/16"	5/8"	50
78205153299	**ADI-50FL**	1/2"	2"	13/16"	50

UPC/Part Number	Catalog Number	Rod Size	Pin Length	Box Qty.
Setting Tools				
78101103229	**6305**	1/4"	39/64"	1
78101103231	**6307**	3/8"	61/64"	1
78101103232	**6309**	1/4"	1 3/16"	1
78101103233	**6311**	1/4"	1 5/15"	1
78101103234	**6313**	1/4"	1 61/64"	1

Mini Drop-in Anchors

- Carbon steel machine bolt anchor for use in shallow embedment applications.
- Can be used in solid concrete and precast hollow core plank, in addition to post-tensioned concrete slabs and concrete pours over metal deck.
- Can be used for overhead applications such as suspending cable tray, strut, pipe supports and lighting.
- Flanged (lipped) version installs flush for easy inspection and standardizes rod heights.
- Setting tool scores flange when set to verify proper expansion
- Available in zinc plated finish.


Anchor


Setting Tool

Mini Drop-In Anchors - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8
Max. Tightening Torque (ft-lbs)	3	5	10
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Min. Embedment Depth (in.)	5/8	3/4	1
Load Capacity Tension (lbs) *	350	530	840
Load Capacity Shear (lbs) *	415	1055	1220

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Thread Depth	Box Qty.
Mini Drop-In Anchor - Steel				
78205153300	**ADM-25**	1/4"	3/8"	100
78205153302	**ADM-37**	3/8"	13/32"	50
78205153302	**ADM-50**	1/2"	5/8"	50
Setting Tools				
78205153301	**6336**	1/4"	–	1
78205153303	**6323**	3/8"	–	1
78205153305	**6338**	3/8"	–	1

Hollow Base Drop-in Anchors

- For use in hollow base materials such as hollow concrete block, brick with weep holes, and precast hollow core plank.
- Can also be used in solid base materials.
- Smooth wall drop-in can be installed flush mounted or below the base material surface.
- Available in Zinc Plated finish.


Anchor


Setting Tool

Hollow Base Drop-In - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	3/8	5/8	3/4
Max. Tightening Torque (ft-lbs)	5	10	20
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Thread Length In Cone (in.)	3/8	5/8	3/4
Min. Embedment Depth (in.)	3/4	1	1 1/2
Load Capacity Tension (lbs) *	285	520	1005
Load Capacity Shear (lbs) *	300	640	1005

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Overall Length	Sleeve Length	Box Qty.
Hollow Base Drop-In					
78205153291	**ADH-25**	1/4"	7/8"	5/8"	100
78205153293	**ADH-37**	3/8"	1 5/16"	15/16"	50
78205153294	**ADH-50**	1/2"	1 3/4"	1 1/4"	50
Setting Tools					
78205153292	**9323**	1/4"	–	–	1
78205153294	**9343**	3/8"	–	–	1
78205153296	**9353**	1/2"	–	–	1

Concrete Screw Bolts

- For use in racking, shelving, material handling, structural anchorage, masonry and food & beverage facilities.
- One piece heavy-duty anchor with a finished hex-head.
- Fits standard fixture hole dimensions in fabricated steel.
- Fast installation and immediate loading reduces downtime.
- For proper performance, screw anchors must be installed with the corresponding bits. The bits have a matched tolerance range designed to provide optimum performance.



Concrete Screw Bolts - Data	1/4"	3/8"
ACB Drill Bit Size (in.)	1/4	3/8
Concrete Screw Tolerance Range (in.)	0.255 - 0.259	0.385 - 0.389
Min. Embedment Depth (in.)	1	1 1/2
Load Capacity Tension (lbs) *	335	630
Load Capacity Shear (lbs) *	520	1170

* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.
For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

UPC/Part Number	Catalog Number	Anchor Length	Thread Length	Box Qty.
Screw Type Anchor - Steel				
78205153247	**ACB-25-175**	1/4" x 1 3/4"	1 5/8"	100
78205153248	**ACB-25-225**	1/4" x 2 1/4"	2"	100
78205153249	**ACB-25-300**	1/4" x 3"	2 3/4"	100
78205153250	**ACB-37-175**	3/8" x 1 3/4"	1 1/2"	50
78205153251	**ACB-37-250**	3/8" x 2 1/2"	2 1/4"	50
78205153252	**ACB-37-300**	3/8" x 3"	2 3/4"	50
78205153253	**ACB-37-400**	3/8" x 4"	3 3/4"	50

UPC/Part Number	Catalog Number	Drill Size	Usable Length	Overall Length	Box Qty.
Drill Bits - Straight Shank Type					
78205153254	**1372**	1/4"	4"	6"	1
78205153256	**1380**	3/8"	4"	6"	1
Drill Bits - SDS Type					
78205153255	**1314**	1/4"	4"	6"	1
78205153257	**1316**	3/8"	4"	6"	1

Note: Matched tolerance bits must be used for installation.

Concrete Screws

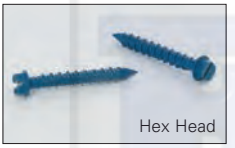
- Light to medium duty anchor for use in concrete, masonry block and brick base materials.
- Concrete screws are engineered with matched tolerance bits and installation tools to optimize performance.
- High low thread design for greater stability and grip.
- No hole spotting required.
- One drill bit is packaged in each box of concrete screws.
- Blue fluorocarbon coating for corrosion resistance.



Straight Shank Drill Bit

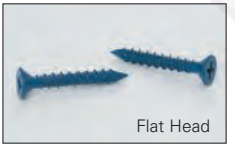


SDS Hex Drill Bit



Hex Head

Hex Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	9/64
Head Width (in.)	1/4	5/16
Washer O.D. (in.)	11/32	13/32
Washer Thickness (in.)	1/32	1/32
Hex Driver (in.)	1/4	5/16



Flat Head

Flat Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	5/32	3/16
Fixture Clearance Hole (in.)	1/4	5/16
Phillips Head O.D. (in.)	3/8	1/2
Phillips Head Height (in.)	9/64	3/16
Phillips Bit Size	2	3

Embedment Depth	Nominal Anchor Dia. / Loading*			
	3/16" Tension	3/16" Shear	1/4" Tension	1/4" Shear
1"	90	175	265	205
1 1/4"	175	230	335	355
1 3/8"	215	230	370	385
1 1/2"	255	230	405	355
1 3/4"	375	235	435	370

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

Concrete Screws

UPC/Part Number	Catalog Number	Size	Box Qty.
Hex Head Concrete Screws			
78101103342	**ACS-18-125H**	3/16" x 1 1/4"	100
78101103343	**ACS-18-175H**	3/16" x 1 3/4"	100
78101103344	**ACS-18-225H**	3/16" x 2 1/4"	100
78101103346	**ACS-18-275H**	3/16" x 2 3/4"	100
78101103347	**ACS-18-325H**	3/16" x 3 1/4"	100
78101103348	**ACS-18-375H**	3/16" x 3 3/4"	100
78101103349	**ACS-18-400H**	3/16" x 4"	100
78101103342	**ACS-25-125H**	1/4" x 1 1/4"	100
78101103343	**ACS-25-175H**	1/4" x 1 3/4"	100
78101103344	**ACS-25-225H**	1/4" x 2 1/4"	100
78101103346	**ACS-25-275H**	1/4" x 2 3/4"	100
78101103347	**ACS-25-325H**	1/4" x 3 1/4"	100
78101103348	**ACS-25-375H**	1/4" x 3 3/4"	100
78101103349	**ACS-25-400H**	1/4" x 4"	100
Flat Head Concrete Screws			
78205153259	**ACS-18-125F**	3/16" x 1 1/4"	100
78205153260	**ACS-18-175F**	3/16" x 1 3/4"	100
78205153261	**ACS-18-225F**	3/16" x 2 1/4"	100
78205153262	**ACS-18-275F**	3/16" x 2 3/4"	100
78205153263	**ACS-25-125F**	1/4" x 1 1/4"	100
78205153264	**ACS-25-175F**	1/4" x 1 3/4"	100
78205153265	**ACS-25-225F**	1/4" x 2 1/4"	100
78205153266	**ACS-25-275F**	1/4" x 2 3/4"	100

UPC/Part Number	Catalog Number	Bit Size	Usable Length	Box Qty.
Straight Shank Drill Bits				
78205153267	**2782**	5/32" x 4 1/2"	3"	1
78205153269	**2786**	3/16" x 4 1/2"	3"	1
SDS Hex Drill Bits				
78205153268	**2793**	5/32" x 5"	3"	1
78205153270	**2796**	3/16" x 5"	3"	1

UPC/Part Number	Catalog Number	Dsecription	Box Qty.
Setting Tool			
78101103453	**2791**	ConcreteScrew Tool Kit	100

Wedge Expansion Anchors

- Heavy and medium duty all purpose anchor.
- For use in solid concrete and grout filled block.
- Anchors can be installed through the fixture, no need for hole spotting.
- Interlocking clip wedges prevent anchor spinning during installation.
- Wire hanger hole size 9/32" diameter, head height 3/4".
- UL & FM approved.
- Available in Zinc Plated Carbon Steel or Type 304 Stainless Steel.



Wedge Expansion Anchor - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8
Fixture Clearance Hole (in.)	5/16	7/16	9/16	11/16
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Washer O.D. (in.)	5/8	13/16	1 1/16	1 3/4
Wrench Size	7/16	9/16	3/4	15/16
Max. Tightening Torque (ft-lbs)	8	28	60	90
Min. Embedment Depth (in.)	1 1/8	1 5/8	2 1/4	2 3/4
Load Capacity Tension (lbs) *	360	760	1390	2075
Load Capacity Shear (lbs) *	405	940	1700	2975

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.

Wire Hanger Wedge Anchor - Data	1/4"
ANSI Drill Bit Size (in.)	1/4
Min. Embedment Depth (in.)	1 1/8
Head Height (in.)	3/4
Load Capacity Tension (lbs) *	360
Load Capacity Shear (lbs) *	405

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Size	Hole Size	Box Qty.
Wire Hanger				
78101103106	**AWA-25-200WH**	1/4" x 2"	9/32"	100

Wedge Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Wedge Anchor				
78101103068	**AWA-25-175**	1/4" x 1 3/4"	3/4"	100
78101103069	**AWA-25-225**	1/4" x 2 1/4"	1 1/4"	100
78101103070	**AWA-25-325**	1/4" x 3 1/4"	2 1/4"	100
78101103071	**AWA-37-225**	3/8" x 2 1/4"	1 1/4"	50
78101103072	**AWA-37-275**	3/8" x 2 3/4"	1 5/8"	50
78101103073	**AWA-37-300**	3/8" x 3"	1 7/8"	50
78205153364	**AWA-37-350**	3/8" x 3 1/2"	2 3/8"	50
78101103074	**AWA-37-375**	3/8" x 3 3/4"	2 5/8"	50
78101103075	**AWA-37-500**	3/8" x 5"	3 7/8"	50
78205153366	**AWA-50-275**	1/2" x 2 3/4"	1 3/8"	50
78101103077	**AWA-50-375**	1/2" x 3 3/4"	2 3/8"	50
78205145636	**AWA-50-450**	1/2" x 4 1/2"	3 1/8"	50
78101103079	**AWA-50-550**	1/2" x 5 1/2"	4 1/8"	50
78101103080	**AWA-50-700**	1/2" x 7"	5 5/8"	25
78101103081	**AWA-62-275**	5/8" x 3 1/2"	2"	25
78101103082	**AWA-62-375**	5/8" x 4 1/2"	3"	25
78101103083	**AWA-62-450**	5/8" x 5"	3 1/2"	25
78101103084	**AWA-62-550**	5/8" x 6"	4 1/2"	25
78101103085	**AWA-62-700**	5/8" x 7"	5 1/2"	25
Wedge Anchor - Stainless Steel				
78101103146	**AWA-25-175SS4**	1/4" x 1 3/4"	3/4"	100
78101103147	**AWA-25-225SS4**	1/4" x 2 1/4"	1 1/4"	100
78101103148	**AWA-25-325SS4**	1/4" x 3 1/4"	2 1/4"	100
78101103149	**AWA-37-225SS4**	3/8" x 2 1/4"	1 1/4"	50
78101103150	**AWA-37-275SS4**	3/8" x 2 3/4"	1 5/8"	50
7810110151	**AWA-37-300SS4**	3/8" x 3"	1 7/8"	50
78205153365	**AWA-37-350SS4**	3/8" x 3 1/2"	2 3/8"	50
78101103152	**AWA-37-375SS4**	3/8" x 3 3/4"	2 5/8"	50
78101103153	**AWA-37-500SS4**	3/8" x 5"	3 7/8"	50
78101103154	**AWA-50-275SS4**	1/2" x 2 3/4"	1 3/8"	50
78101103155	**AWA-50-375SS4**	1/2" x 3 3/4"	2 3/8"	50
78205153367	**AWA-50-450SS4**	1/2" x 4 1/2"	3 1/8"	50
78101103157	**AWA-50-550SS4**	1/2" x 5 1/2"	4 1/8"	50
78205153368	**AWA-50-700SS4**	1/2" x 7"	5 5/8"	25
78205153369	**AWA-62-275SS4**	5/8" x 3 1/2"	2"	25
78205153370	**AWA-62-375SS4**	5/8" x 4 1/2"	3"	25
78205153779	**AWA-62-450SS4**	5/8" x 5"	3 1/2"	25
78205153371	**AWA-62-550SS4**	5/8" x 6"	4 1/2"	25
78205143044	**AWA-62-700SS4**	5/8" x 7"	5 1/2"	25

Seismic Wedge Anchors

- Fully threaded, torque-controlled, wedge anchor which is designed for consistent performance in cracked and uncracked concrete.
- For use in concrete, structural sand lightweight concrete, and concrete over metal deck.
- Nominal drill bit size is the same as the anchor diameter.
- ICC-ES listed, ESR-2502, Category 1
- Zinc plated carbon steel body with stainless steel expansion clip from premium performance.
- Qualified for seismic and wind loading.



Seismic Wedge Anchor - Data	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	7/16	9/16	11/16	13/16
Minimum Hole Depth (in.)	2 5/8	2 3/4	4 1/4	5
Minimum Concrete Thickness (in.)	4	4 1/2	5 3/4	7
Max. Tightening Torque (ft-lbs)	20	40	60	110
Min. Embedment Depth (in.)	2 3/8	2 1/2	3 7/8	4 1/2

For loading information, see ICC-ES ESR-2502.

Seismic Wedge Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Seismic Wedge Anchor				
78205153398	**AWSD-37-300**	3/8" X 3"	1 3/4"	50
78205153399	**AWSD-37-350**	3/8" X 3 1/2"	2 1/4"	50
78205153400	**AWSD-37-375**	3/8" X 3 3/4"	2 1/2"	50
78205153401	**AWSD-37-500**	3/8" X 5"	3 3/4"	50
78205153402	**AWSD-50-375**	1/2" X 3 3/4"	2 1/8"	50
78205153403	**AWSD-50-450**	1/2" X 4 1/2"	2 7/8"	50
78205153404	**AWSD-50-550**	1/2" X 5 1/2"	3 7/8"	50
78205153405	**AWSD-50-700**	1/2" X 7"	5 3/8"	50
78205153406	**AWSD-62-475**	5/8" X 4 3/4"	2 7/8"	25
78205153407	**AWSD-62-500**	5/8" X 5"	3 1/8"	25
78205153408	**AWSD-62-600**	5/8" X 6"	4 1/8"	25
78205153409	**AWSD-62-700**	5/8" X 7"	5 1/8"	25
78205153410	**AWSD-75-550**	3/4" X 5 1/2"	3 1/4"	20
78205153411	**AWSD-75-625**	3/4" X 6 1/4"	4"	20
78205153425	**AWSD-75-700**	3/4" X 7"	4 3/4"	20

Drive Anchor

- One-piece, tamper-proof vibration resistant anchor for use in concrete.
- Anchor is formed with an 's' shaped configuration at the working end of the anchor to create an expansion mechanism.
- Anchor is pre-expanded so no secondary tightening operation is required.
- FM approved.
- Made of Zinc Plated carbon steel.



Mushroom Head - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	7/64
Head Size O.D. (in.)	7/16	1/2
Min. Embedment Depth (in.)	7/8	7/8
Load Capacity Tension (lbs.) *	215	235
Load Capacity Shear (lbs.) *	330	470



Rod Hanger - Data	1/4"	3/8"
ANSI Drill Bit Size (in.)	3/16	1/4
UNC Thread Size	1/4"-20	3/8"-16
Head Height (in.)	1/2	5/8
Head Size O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	1 1/4	1 3/4
Load Capacity Tension (lbs.) *	315	500
Load Capacity Shear (lbs.) *	245	525



Wire Hanger - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Tie-Wire Hole (in.)	3/16	9/32
Head Height (in.)	37/64	41/64
Head Width (in.)	9/64 x 7/16	3/16 x 9/16
Min. Embedment Depth (in.)	1 1/8	1 1/8
Load Capacity Tension (lbs.)*	265	290
Load Capacity Shear (lbs.)*	240	330

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

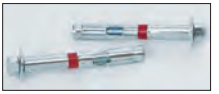
Drive Anchors

UPC/Part Number	Catalog Number	Size	Box Qty.
Mushroom Head			
78205153271	**ADA-18-100**	3/16" x 1"	100
78205153272	**ADA-18-125**	3/16" x 1 1/4"	100
78205153273	**ADA-18-150**	3/16" x 1 1/2"	100
78205153274	**ADA-18-200**	3/16" x 2"	100
78205153275	**ADA-18-250**	3/16" x 2 1/2"	100
78205153276	**ADA-18-300**	3/16" x 3"	100
78205153278	**ADA-25-100**	1/4" x 1"	100
78205153279	**ADA-25-125**	1/4" x 1 1/4"	100
78205153280	**ADA-25-150**	1/4" x 1 1/2"	100
78205153281	**ADA-25-200**	1/4" x 2"	100
78205153282	**ADA-25-250**	1/4" x 2 1/2"	100
78205153283	**ADA-25-300**	1/4" x 3"	100

UPC/Part Number	Catalog Number	Head Size	Box Qty.
Rod Hanger			
78205153284	**ADA-25RH**	1/4"	100
78205153286	**ADA-37RH**	3/8"	100
Wire Hanger			
78205153277	**ADA-18WH**	3/16"	100
78205153285	**ADA-25WH**	1/4"	100

Sleeve Type Expansion Anchors

- For use in concrete and masonry substrates.
- Suitable for solid and hollow core materials.
- Fits standard fixture holes - no need to undersize anchors for proper fit.
- Sleeve has 360° contact area and reduces concrete stress.
- UL & FM approved.
- Available in Zinc Plated Steel or Type 304 Stainless Steel.



Hex Nut (HN) Style



Acorn Nut (AN) Style



Slotted Round Head (RS) Style

Sleeve Type Expansion - Data	1/4"	3/8"	1/2"	5/8"	3/4"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/8	3/4
Fixture Clearance Hole (in.)	5/16	7/16	9/16	11/16	15/16
Plow Bolt Size (UNC)	#10-24	5/16"-18	3/8"-16	1/2"-13	5/8"-11
Min. Embedment Depth (in.)	5/8	1 5/8	2 1/4	2 1/4	2 1/4
Load Capacity Tension (lbs) *	155	670	1255	1465	2105
Load Capacity Shear (lbs) *	300	610	1055	1800	2900

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading contact factory.



Rod Hanger (RH) Style



Wire Hanger (WH) Style

Sleeve Type Expansion - Data	Hanger Rod			Wire Hanger
	1/4"	3/8"	1/2"	5/16"
ANSI Drill Bit Size (in.)	1/4	3/8	1/2	5/16
Fixture Clearance Hole (in.)	NA	NA	NA	1/4
Plow Bolt Size (UNC)	#10-24	5/16"-18	3/8"-16	1/4"-20
Coupling Height (in.)	7/8	1	1 1/4	NA
Min. Embedment Depth (in.)	5/8	1 5/8	2 1/4	1 1/2
Load Capacity Tension (lbs) *	155	670	1255	520
Load Capacity Shear (lbs) *	300	610	1055	380

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading go to www.cooperbline.com.

Sleeve Type Expansion Anchors

UPC/Part Number	Catalog Number	Size	Thread Length	Box Qty.
Hex Nut Style				
78101102995	**ASA-37-187HN**	3/8" x 17/8"	15/8"	50
78101102996	**ASA-37-300HN**	3/8" x 3"	15/8"	50
78205153400	**ASA-37-400HN**	3/8" x 4"	15/8"	50
78101102997	**ASA-50-225HN**	1/2" x 21/4"	21/8"	25
78101102998	**ASA-50-300HN**	1/2" x 3"	21/4"	25
78101102999	**ASA-50-400HN**	1/2" x 4"	21/4"	25
78205153351	**ASA-50-525HN**	1/2" x 51/4"	21/4"	25
78101103002	**ASA-50-600HN**	1/2" x 6"	21/4"	10
78101103003	**ASA-62-225HN**	5/8" x 21/4"	21/8"	25
78101103004	**ASA-62-300HN**	5/8" x 3"	23/4"	25
78101103005	**ASA-62-425HN**	5/8" x 41/4"	23/4"	10
78101103006	**ASA-62-600HN**	5/8" x 6"	23/4"	10
78101103007	**ASA-75-250HN**	3/4" x 21/2"	21/8"	10
78101103008	**ASA-75-425HN**	3/4" x 41/4"	33/8"	10
78101103009	**ASA-75-625HN**	3/4" x 61/4"	33/8"	10
Hex Nut Style - Stainless Steel				
78205153343	**ASA-37-187HNSS4**	3/8" x 17/8"	15/8"	50
78205153345	**ASA-37-300HNSS4**	3/8" x 3"	15/8"	50
78205153347	**ASA-50-225HNSS4**	1/2" x 21/4"	21/8"	25
78205153349	**ASA-50-300HNSS4**	1/2" x 3"	21/4"	25
78205153350	**ASA-50-400HNSS4**	1/2" x 4"	21/4"	25
78205153352	**ASA-62-425HNSS4**	5/8" x 41/4"	23/4"	10
78205153353	**ASA-75-400HNSS4**	3/4" x 4"	33/8"	10
Acorn Nut Style				
78205153341	**ASA-25-62AN**	1/4" x 5/8"	1/2"	100
78101102991	**ASA-25-137AN**	1/4" x 13/8"	11/8"	100
78101102992	**ASA-25-225AN**	1/4" x 21/4"	11/8"	100
Slotted Round Head Style				
78205153338	**ASA-25-112RS**	1/4" x 11/8"	1"	100
78205153340	**ASA-25-200RS**	1/4" x 2"	11/8"	100

UPC/Part Number	Catalog Number	Size	Drill Diameter	Box Qty.
Rod Hanger				
78205153339	**ASA-25-150RH**	1/4" x 11/2"	5/16"	50
78205153344	**ASA-37-187RH**	3/8" x 17/8"	3/8"	50
78205153348	**ASA-50-225RH**	1/2" x 21/4"	1/2"	25
Wire Hanger				
78205153342	**ASA-31-150WH**	5/16" x 11/2"	5/16"	100

Double Expansion Anchors

- For use in concrete, block, brick or stone.
- Double expansion anchor is particularly suited for base materials of questionable strength (job site tests are recommended).
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



Double Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Thread Length In Cone (in.)	1/2	5/8	3/4	7/8
Min. Embedment Depth (in.)	1 1/4	1 3/4	2 1/4	2 1/2
Load Capacity Tension (lbs) *	415	875	1625	1750
Load Capacity Shear (lbs) *	405	1000	1540	2855

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
Double Expansion Anchor				
78101103251	**ADE-25**	1/4"	1 3/8"	50
78101103253	**ADE-37**	3/8"	2"	50
78101103254	**ADE-50**	1/2"	2 1/2"	25
78101103256	**ADE-62**	5/8"	2 3/4"	25

Single Expansion Anchors

- For use in concrete, block, brick or stone.
- Recommended for floor and wall attachments.
- Not recommended for overhead applications.
- Internally threaded anchor for easy removability and service work.
- Made of Zamac Alloy material.



Single Expansion - Data	1/4"	3/8"	1/2"	5/8"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8	1
Max. Tightening Torque (ft-lbs)	5	10	20	30
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11
Thread Length In Cone (in.)	5/16	5/16	7/16	5/8
Min. Embedment Depth (in.)	1 3/8	1 5/8	2 1/2	2 3/4
Load Capacity Tension (lbs) *	500	725	1225	2050
Load Capacity Shear (lbs) *	405	950	1540	2855

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Size	Anchor Length	Box Qty.
Single Expansion Anchor				
78101103245	**ASE-25**	1/4"	1 5/16"	50
78101103247	**ASE-37**	3/8"	1 1/2"	50
78101103248	**ASE-50**	1/2"	2 1/16"	25
78101103249	**ASE-62**	5/8"	2 5/8"	25

Wood Knocker™† Anchors

- Wood-Knocker™ concrete inserts are installed onto wooden forms used to support newly poured concrete floor slabs, roof slabs or walls.
- When the forms are stripped, the color-coded flange is visibly embedded in the concrete surface.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is being installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



Wood Knocker™ - Data	1/4"	3/8"	1/2"	5/8"	3/4"
Insert Thread Length (in.)	3/8	5/8	11/16	15/16	1 1/8
Plastic Flange Diameter (in.)	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10
Overall Length (in.)	1 7/8	1 7/8	1 7/8	1 7/8	1 7/8
Min. Insert Spacing (in.)	9	9	9	12	12
Min. End Distance (in.)	6	6	6	9	9
Load Capacity Tension (lbs) *	930	1200	1200	1160	1160
Load Capacity Shear (lbs) *	370	1330	1840	2800	2800

* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory.
Minimum embedment depth is 2".

UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
Wood Knocker				
78205131147	**ACPW-25**	1/4"	Brown	100
78205131149	**ACPW-38**	3/8"	Green	100
78205131151	**ACPW-50**	1/2"	Yellow	100
78205131152	**ACPW-62**	5/8"	Red	50
78205131153	**ACPW-75**	3/4"	Purple	50

† Wood Knocker™ is a registered trademark used by Power® Fasteners, Inc.

Bang-It™† Anchors

- Bang-It™ concrete inserts are designed for installation in and through metal composite deck used to support newly poured concrete floors or roof slabs.
- After installation, the protective sleeve of the insert protrudes below the surface of the deck, allowing overhead attachment of threaded rod.
- The unique, six sided impact plate offers resistance to rotation within the concrete as threaded rod is bing installed.
- Suitable for overhead installations such as suspending cable tray, pipe hangers, strut and conduit.
- Color coded by size for all trades.
- UL and FM approved.
- Lowest in-place cost.



Bang-It™ - Data	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"
Metal Hole Saw Diameter (in.)	13/16	13/16	13/16	13/16	13/16	13/16
Drilling Speed (rpm)	700-900	700-900	700-900	500-700	500-700	500-700
Insert Thread Length (in.)	3/8	5/8	11/16	15/16	1 1/8	15/16
Length of Sleeve (in.)	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8	3 3/8
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13	5/8"-11	3/4"-10	7/8"-9
Embedment Depth (in.)	2	2	2	2	2	2
Upper Deck Tension Load (lbs) *	835	1435	1775	2200	2200	2200
Lower Deck Tension Load (lbs) *	835	1115	1115	1115	1115	1115
Upper Deck Shear Load (lbs) *	620	620	620	740	740	740
Lower Deck Shear Load (lbs) *	625	840	840	840	840	840

* Based on normal weight concrete with minimum compression strength of 3000 psi. Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory. Minimum insert spacing of 12", minimum end spacing 12".

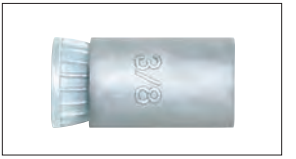
UPC/Part Number	Catalog Number	Rod Diameter	Color	Box Qty.
Bang-It™				
78205131154	**ACPD-25**	1/4"	Brown	100
78205131156	**ACPD-38**	3/8"	Green	100
78205131157	**ACPD-50**	1/2"	Yellow	100
78205131158	**ACPD-62**	5/8"	Red	50
78205131166	**ACPD-75**	3/4"	Purple	50
78205153258	**ACPD-87**	7/8"	Black	50
Bang-It™ Hole Saws				
78205131169	**ACPD-HS813**	13/16" Carbide Hole Saw for 1/4", 3/8", 1/2"		1
78205131171	**ACPD-HS1188**	1 3/16" Carbide Hole Saw for 5/8", 3/4", 7/8"		1

† Bang-It™ is a registered trademark used by Power® Fasteners, Inc.

Read safety/installation instruction sheets in packages before use.

Machine Screw Anchors

- For use in concrete, block, brick or stone.
- Not recommended for use in overhead applications.
- Readily accepts machine bolts.
- Internally threaded anchor for easy removability and service work.
- Anchor installation requires shallow embedment.
- Made of Zamac Alloy material.



Machine Screw Anchor - Data	1/4"	3/8"	1/2"
ANSI Drill Bit Size (in.)	1/2	3/4	7/8
Max. Tightening Torque (ft-lbs)	5	10	15
Thread Size (UNC)	1/4"-20	3/8"-16	1/2"-13
Min. Embedment Depth (in.)	7/8	1 1/4	1 1/2
Load Capacity Tension (lbs) *	585	775	1095
Load Capacity Shear (lbs) *	355	825	1135

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Rod Diameter	Box Qty.
Machine Screw Anchor			
78101103239	**AMS-25**	1/4"	100
78101103242	**AMS-37**	3/8"	50
78101103243	**AMS-50**	1/2"	50
Setting Tool			
78205109765	**9221**	1/4"	1
78205109767	**9231**	3/8"	1
78205109768	**9241**	1/2"	1

Self-Tapping Machine Screw Anchors

- For use in normal-weight concrete, structural sand lightweight concrete and concrete over metal deck.
- Anchor design allows for shallow embedment and mechanically interlocks with base material.
- Internally threaded anchor for easy adjustment and removability of threaded rod or bolt.
- Fast anchor installation with a powered impact wrench.
- Suitable for overhead applications such as suspending cable tray, strut, pipe hangers and conduit.
- FM Approved.
- ICC-ES listed, ESR-2272
- Made of Zinc Plated carbon steel.
- Setting tool included.



Self-Tapping Machine Screw - Data	3/8"
ANSI Drill Bit Size (in.)	1/2
Min. Concrete Thickness (in.)	4
Max. Tightening Torque (ft-lbs)	8
Min. Embedment Depth (in.)	1 5/8
Load Capacity Tension (lbs) *	540
Load Capacity Shear (lbs) *	825

* Based on concrete compression strength of 4000 psi in uncracked concrete using applied safety factor of 4.0. For additional loading information contact factory.
For ultimate strength design data in cracked and uncracked concrete, see ICC-ES ESR-2526.

UPC/Part Number	Catalog Number	Size	Thread Depth	Box Qty.
Self-Tapping Machine Screw Anchor				
78205153362	**ATM-37**	3/8"	11/16"	50
Tool				
78205153363	**6407 SD**	3/8"	--	1

Drive Nail Anchors

- For use in concrete, block or brick.
- Anchor is recommended for light duty, tamper-proof applications.
- Not recommended for overhead applications.
- Made of Zamac Alloy material.



Drive Nail - Data	3/16"	1/4"
ANSI Drill Bit Size (in.)	3/16	1/4
Fixture Clearance Hole (in.)	1/4	5/16
Head Height (in.)	7/64	9/64
Head Size, O.D. (in.)	13/32	35/64
Min. Embedment Depth (in.)	3/4	5/8
Load Capacity Tension (lbs) *	125	150
Load Capacity Shear (lbs) *	175	205

* Based on concrete compression strength of 4000 psi using applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Size	Box Qty.
Drive Nail Anchor			
78101102964	**ADN-18-87**	3/16" x 7/8"	100
78101102965	**ADN-25-75**	1/4" x 3/4"	100
78101102966	**ADN-25-100**	1/4" x 1"	100
78101102967	**ADN-25-125**	1/4" x 1 1/4"	100
78101102968	**ADN-25-150**	1/4" x 1 1/2"	100
78101102969	**ADN-25-200**	1/4" x 2"	100
78205153306	**ADN-25-300**	1/4" x 3"	100

Toggle Bolts

- The toggle bolt is a spring wing type hollow wall anchor designed for use in block, wallboard and other hollow base materials.
- Anchor is a two-part assembly consisting of a machine screw and a spring wing toggle.
- Adjustable to accommodate various wall thicknesses up to $2\frac{1}{2}$".
- Combo round head bolt is provided.
- Made of zinc plated carbon steel.



Toggle Bolt - Data	3/16"		1/4"		3/8"	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	35	35	55	55	60	65
1/2" Wallboard	45	50	60	60	65	75
5/8" Wallboard	60	60	65	65	75	80
3/4" Wallboard	75	70	80	75	85	90
Hollow Concrete Masonry *	70	70	70	120	195	140

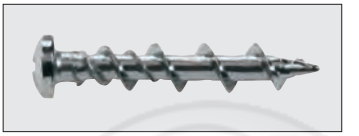
Allowable load capacities are calculated using applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Drill Diameter	Size	Box Qty.
Toggle Bolt				
78205153354	**ATB-18-300**	1/2"	3/16" x 3"	50
78205153355	**ATB-18-400**	1/2"	3/16" x 4"	50
78205153356	**ATB-25-300**	5/8"	1/4" x 3"	50
78205153357	**ATB-25-400**	5/8"	1/4" x 4"	50
78205153358	**ATB-37-300**	7/8"	3/8" x 3"	25
78205153359	**ATB-37-400**	7/8"	3/8" x 4"	25

Wall Screws

- One-piece, all steel anchor with high-profile threads for easy fastening into wallboard and other masonry base materials.
- Deep cutting, corkscrew-like threads provide for smooth entry and a strong hold.
- No pre-drilling is required when fastening into wallboard or wood.
- Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled 3/16" ANSI hole.
- Installed with a No. 8 drill bit or No. 2 Phillips driver.
- Made of case hardened carbon steel with chrome finish.



Wall Screw - Data	Minimum Embedment Depth	Load Cap. Tension (lbs.) *	Load Cap. Shear (lbs.) *
Concrete *	3/4"	90	260
1/2" Wallboard	NA	20	60
5/8" Wallboard	NA	35	90
3/4" Plywood	NA	65	150
Grout-Filled Concrete Masonry	1"	55	165
Hollow Concrete Masonry	1"	60	165
Brick Masonry	3/4"	70	120

* Based on concrete compression strength of 4000 psi. Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading contact factory.

UPC/Part Number	Catalog Number	Size	Head Type	Box Qty.
Wall Screw				
78205153372	**AWS-CH**	3/16" x 1 1/4"	Combo	100
78205153373	**AWS-OH**	3/16" x 1 1/4"	Oval	100
78205153374	**AWS-PH**	3/16" x 1 1/4"	Pan	100

Plastic Screw Anchors

- One-piece anchor designed for light duty applications in wallboard, concrete and masonry.
- Works in hollow or solid base materials.
- Suitable for screws with various thread sizes and styles - screws may be installed with a screw gun.



Plastic Screw Anchor - Data	APS-4	APS-6	APS-8
Drill Diameter (in.)	3/16	1/4	5/16
Screw Size Range	#4-#10	#6-#12	#8-#14
Min, Thread Length (in.)	1 3/16	1 3/8	1 13/16
Min. Hole Diameter (in.)	1 3/8	1 9/16	2
Min. Wall Thickness (in.)	1/4	3/8	1/2
Min. Embedded Thread Length (in.)	1 7/8	2	2 9/16
Load Capacity Tension (lbs) *	18	20	22
Load Capacity Shear (lbs) *	32	40	45

* Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
Plastic Screw Anchors			
78205153315	**APS-4**	#4 - #10	100
78205153316	**APS-6**	#6 - #12	100
78205153319	**APS-8**	#8 - #14	100

Plastic Hollow Wall Anchors

- Heavy duty hollow wall anchor designed for use in plaster, wallboard, concrete block, or hollow tile.
- Pre-assembled anchor consisting of a carbon steel wing and a locking cap/ratchet leg assembly molded from engineered plastic.
- When compared to traditional toggles, this anchor can be installed in a smaller hole and does not require a fixture or screw to set it.
- Adjustable to accommodate various wall thickness up to 2 1/2".



Plastic Hollow Wall - Data	3/16"	1/4"	3/8"	1/2"
Thread Size (UNC)	3/16"-24	1/4"-20	3/8"-16	1/2"-13
Max. Tightening Torque (ft-lbs)	5	5	5	5
Minimum Clearance (in.)	1 7/8"	1 7/8"	1 7/8"	1 7/8"

Plastic Hollow Wall - Data	3/16"		1/4"		3/8"		1/2"	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	30	60	35	70	35	70	35	75
1/2" Wallboard	35	70	35	75	40	75	40	90
5/8" Wallboard	50	95	55	105	55	105	55	110
3/4" Wallboard	50	110	55	120	60	120	60	120
Hollow Concrete Masonry *	215	150	270	285	285	465	345	595

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

* Based on hollow wall concrete masonry with minimum compression strength of 1500 psi.

UPC/Part Number	Catalog Number	Anchor Size	Drill Dia.	Wall Thickness	Box Qty.
Plastic Hollow Wall Anchor					
78205153311	**APH-18**	3/16" x 4"	1/2"	3/8" - 2 1/2"	50
78205153312	**APH-25**	1/4" x 4"	1/2"	3/8" - 2 1/2"	50
78205153313	**APH-37**	3/8" x 4"	3/4"	3/8" - 2 1/2"	25
78205153314	**APH-50**	1/2" x 4"	3/4"	3/8" - 2 1/2"	25

Self-Drilling Wallboard Anchors

- One-piece self drilling anchor designed for use in hollow wallboard for light to medium duty loads.
- Ideal for mounting electrical fixtures, phone systems, and miscellaneous hardware.
- APD/AZD designed for use in 3/8" to 1" wallboard.
- APDM/AZDM designed for use in 3/8" to 5/8" wallboard.
- Kit includes 50 anchors, 50 screws and #2 Phillips Drive Bit.
- Available in engineered Nylon and Zamac Alloy.





Self-Drilling Wallboard Anchor - Data	APD/AZD	APDM/AZDM
Anchor Length (in.)	1 11/16	1 5/16
Min. Screw Engagement (in.)	3/4	3/4

Self-Drilling Wallboard Anchor - Data	APD/AZD		APDM/AZDM	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
3/8" Wallboard	15	15	10	15
1/2" Wallboard	15	20	15	15
5/8" Wallboard	20	25	20	20
3/4" Wallboard	20	25	20	20

Allowable load capacities are calculated using an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
Self-Drilling Wallboard Anchor			
78101103314	**APD-8K**	#8 x 1"	50
78101103318	**AZD-8K**	#8 x 1"	50
78205153310	**APDM-6K**	#6 x 1"	50
78205153375	**AZDM-6K**	#6 x 1"	50

Plastic Conical Anchors

- Designed for use with lightweight fixtures.
- Recommended for use in concrete, block and brick.
- Recommended for light duty static applications where holding power is not critical.
- Not recommended for overhead use.
- Kit includes 100 anchors, 100 screws and one drill bit.
- Made of engineered plastic.





Plastic Conical Anchor - Data	#8		#10 - #12	
	Tension (lbs.)	Shear (lbs.)	Tension (lbs.)	Shear (lbs.)
Nominal Weight Concrete *	110	70	140	90
Hollow Concrete Masonry **	60	45	70	55
Clay Brick Masonry ***	30	50	55	65
Minimum Embedment Depth	7/8"	7/8"	1"	1"

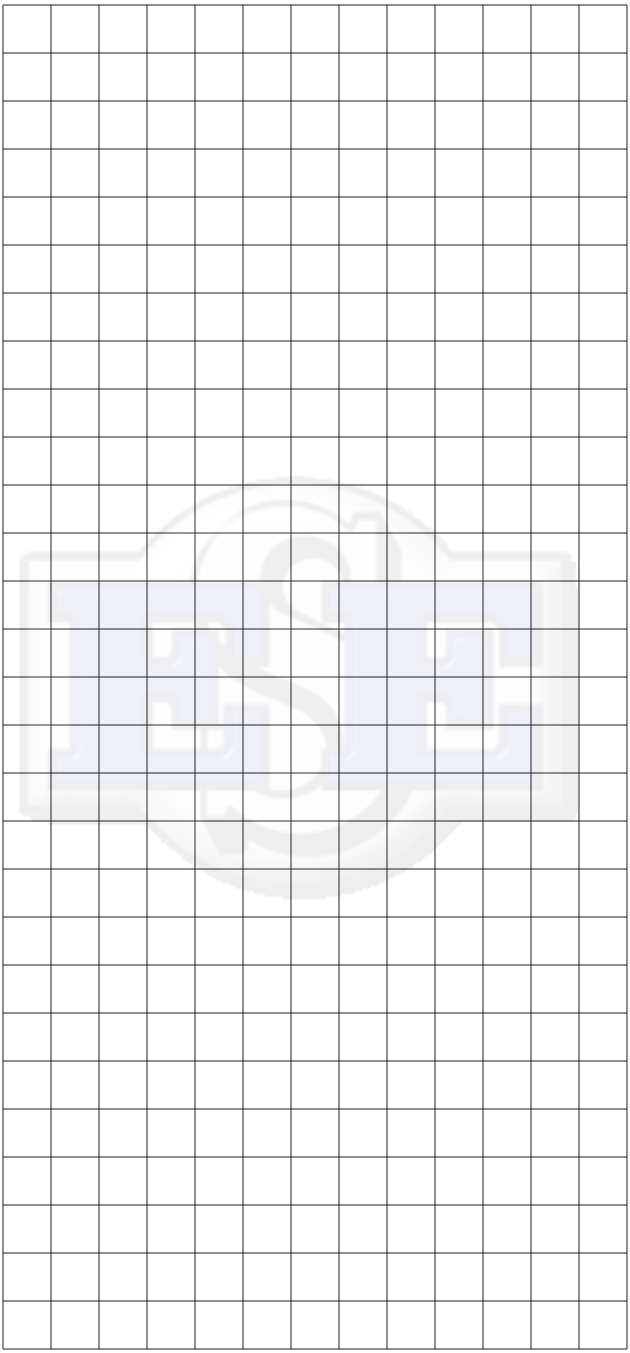
* Based on concrete compression strength of 4000 psi.

** Based on hollow concrete masonry with minimum compression strength of 1500 psi.

*** Based on clay brick masonry with minimum compression strength of 1500 psi.

Loads contain an applied safety factor of 4.0. For additional loading information contact factory.

UPC/Part Number	Catalog Number	Screw Size	Box Qty.
Plastic Conical Anchor			
78205153307	**APC-8K**	#8 x 1"	100
78205153308	**APC-10K**	#10 x 1"	100
78205153309	**APC-12K**	#12 x 1"	100



Code Compliance for Spring Steel Fasteners Based on the 2005 NEC®

Eaton's B-Line Business has recognized the need for a reference source, detailing the National Electrical Code requirements for Spring Steel Fasteners. The following pages are reprinted portions of the 2005 NEC. These sections address nearly every aspect of fastener installations and offer design solutions for the electrical industry. If a topic has not been covered sufficiently to answer a specific question or if additional information is desired, contact our engineering department.

The following information has been carefully checked for accuracy and is believed to be correct and current. No warranty, either expressed or implied, is made as to either its applicability to, or its compatibility with, specific requirements, of this information, nor for damages consequent to its use. All design characteristics, specifications, tolerances and similar information are subject to change without notice.

To obtain a copy of the NEC® contact:
National Fire Protection Association
1 Batterymarch Park
P.O. Box 9101
Quincy, Massachusetts 02269-9101
1-800-344-3555

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90.4 Enforcement. This *Code* is intended to be suitable for mandatory application by governmental bodies that exercise legal jurisdiction over electrical installations, including signaling and communications systems, and for use by insurance inspectors. The authority having jurisdiction for enforcement of the *Code* has the responsibility for making interpretations of the rules, for deciding upon the approval of equipment and materials, and for granting the special permission contemplated in a number of the rules.

By special permission, the authority having jurisdiction may waive specific requirements in this *Code* or permit alternate methods where it is assured that equivalent objectives can be achieved by establishing and maintaining effective safety. *

This *Code* may require new products, constructions, or materials that may not yet be available at the time the *Code* is adopted. In such event, the authority having jurisdiction may permit the use of the products, constructions, or materials that comply with the most recent previous edition of this *Code* adopted by the jurisdiction.

Article 100 - Definitions

Listed. Equipment, materials, or services included in a list published by an organization that is acceptable to the authority having jurisdiction and concerned with evaluation of products or services, that maintains periodic inspection of production of listed equipment or materials or periodic evaluation of services, and whose listing states that the equipment, material, or services either meets appropriate designated standards or has been tested and found suitable for a specific purpose.

FPN: The means for identifying listed equipment may vary for each organization concerned with product evaluation, some of which do not recognize equipment as listed unless it is labeled. Use of the system employed by the listing organization allows the authority having jurisdiction to identify a listed product.

***Note:** Local codes may override certain requirements of the National Electrical Code®. Consult your local inspector for further details.

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300.4 Protection Against Physical Damage. Where subject to physical damage, conductors shall be adequately protected.

(A) Cables and Raceways through Wood Members.

(1) Bored Holes. . . . , holes shall be bored so that the edge of the hole is not less than 32mm (1 1/4 in.) from the nearest edge of the wood member. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by screws or nails by a steel plate or bushing, at least 1.6 mm (1/16 in.) thick, and of appropriate length and width installed to cover the area of the wiring. *(See Figure 1)*

Exception No. 1: Steel plates shall not be required to protect RMC, IMC, RNC, or EMT.

*Exception No. 2: A **listed** and marked steel plate less than 1.6 mm (1/16 in.) thick that provides equal or better protection against nail or screw penetration shall be permitted.*

(2) Notches in Wood. . . . , cables or raceways shall be permitted to be laid in notches in wood studs, joists, rafters, or other wood members where the cable or raceway at those points is protected against nails or screws by a steel plate at least 1.6 mm (1/16 in.) thick, and of appropriate length and width, installed to cover the area of the wiring. The steel plate shall be installed before the building finish is applied. *(See Figure 1)*

Exception: See Exceptions 1 & 2 from (1) Bored Holes

(B) Nonmetallic-Sheathed Cables and Electrical Nonmetallic Tubing through Metal Framing Members.

(1) Nonmetallic-Sheathed Cable. . . . where nonmetallic-sheathed cables pass through either factory or field punched, cut or drilled slots or holes in metal members, the cable shall be protected by listed bushings or listed grommets covering all metal edges that are securely fastened in the opening prior to installation of the cable. *(See Figure 2)*

(2) Nonmetallic-Sheathed Cable and Electrical Nonmetallic Tubing. Where nails or screws are likely to penetrate nonmetallic-sheathed cable or electrical nonmetallic tubing, a steel sleeve, steel plate, or steel clip not less than 1.6 mm (1/16 in.) in thickness shall be used to protect the cable or tubing. *(See Figure 1)*

Exception: See Exception 2 from (A)(1) Bored Holes

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(D) Cables and Raceways Parallel to Framing Members and Furring Strips. . . . , the cable or race way shall be installed and supported so that the nearest outside surface of the cable or raceway is not less than 32 mm ($1\frac{1}{4}$ in.) from the nearest edge of the framing member or furring strips where nails or screws are likely to penetrate. Where this distance cannot be maintained, the cable or raceway shall be protected from penetration by nails or screws by a steel plate, sleeve, or equivalent at least 1.6 mm ($\frac{1}{16}$ in.) thick
(See Figures 1, 3, 4)

Exception 1: See Exception 1 from (A)(1) Bored Holes
Exception No. 2: For concealed work in finished buildings, or finished panels for prefabricated buildings where such supporting is impracticable, it shall be permissible to fish the cables between access points.

Exception 3: See Exception 2 from (A)(1) Bored Holes

(E) Cables and Raceways Installed in Shallow Grooves. . . . , shall be protected by 1.6 mm ($\frac{1}{16}$ in.) thick steel plate, sleeve, or equivalent or by not less than 32 mm ($1\frac{1}{4}$ in.) free space for the full length of the groove in which the cable or raceway is installed.
(See Figure 1)

Exception: See Exceptions 1 & 2 from (A)(1) Bored Holes

Figure 1 - BM3 & BM3M

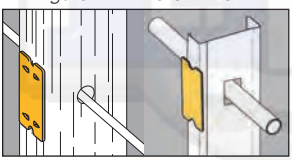


Figure 2 - BM1/BM2

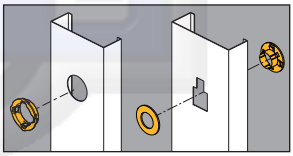


Figure 3 - BRC4 & BRC6M

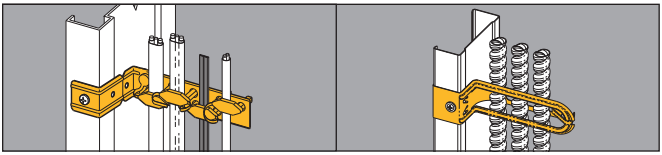
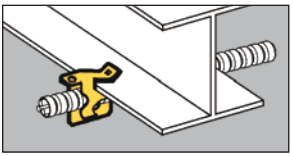


Figure 4 - BX4



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300.11 Securing and Supporting.

(A) Secured in Place. Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sole support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and race ways shall not be supported by ceiling grids.

(1) Fire Rated Assemblies. Wiring located within the cavity of a fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided and shall be permitted to be attached to the assembly. Where independent support wires are used, they shall be distinguishable by color, tagging, or other effective means from those that are part of the fire-rated design.

Exception: *The ceiling support system shall be permitted to support wiring and equipment that have been tested as part of the fire-rated assembly.*

(2) Non-Fire-Rated Assemblies. Wiring located within the cavity of a non-fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires.
An independent means of secure support shall be provided.

Exception: *The ceiling support system shall be permitted to support branch-circuit wiring and associated equipment where installed in accordance with the ceiling system manufacturer's instructions.*

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Note: A previously acceptable practice, namely supporting cable and raceways by the ceiling grid, is no longer allowed. The intent of Article 300.11 is simple: an independent means of secure support must be provided for cable assemblies, raceways, boxes, etc. *(See Figures 5 - 8)*

Typical Drop Wire / Rod Applications

Additional drop wires, which are installed specifically for cable support, must be secured at both ends. When independent wires are used in fire-rated assemblies, they must be distinguishable from those wires that are part of the fire-rated assembly. B-Line's BA-311 series can be used to secure support wire to the ceiling grid. Its bright yellow color allows it to be easily recognized by inspectors. *(See Figure 8)*

Upper Attachments

Figure 5 - BE Series

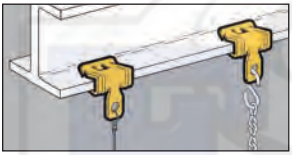


Figure 6 - BF3 Series & BF4 Series

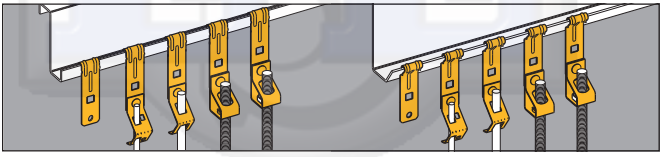


Figure 7 - BG-8-12-S18-W2

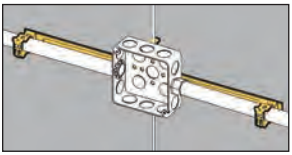
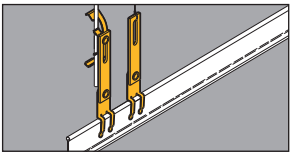


Figure 8 - BA311



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310.15 Ampacities For Conductors Rated 0-2000 Volts.

(B) Tables . . . . .

(2) Adjustment Factors.

(a) More Than Three Current-Carrying Conductors in a Raceway or Cable. Where the number of current-carrying conductors in a raceway or cable exceeds three, or where single conductors or multiconductor cables are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing and are not installed in raceways, the allowable ampacity of each conductor shall be reduced as shown in Table 310.15(B)(2)(a). Each current-carrying conductor of a paralleled set of conductors shall be counted as a current-carrying conductor.

FPN No. 1: See Annex B, Table B.310.11, for adjustment factors for more than three current-carrying conductors in a raceway or cable with load diversity.

FPN No. 2: See 366.23(A), for correction factors for conductors in sheet metal auxiliary gutters and 376.22 for correction factors for conductors in metal raceways.

Exception No. 1: Where conductors of different systems, as provided in 300.3, are installed in a common raceway or cable, the derating factors shown in Table 310.15(B)(2)(a) shall apply only to the number of power and lighting conductors (Articles 210, 215, 220, and 230).

Exception No. 2: For conductors installed in cable trays, the provisions of 392.11 shall apply.

Exception No. 3: Derating factors shall not apply to conductors in nipples having a length not exceeding 600 mm (24 in.).

Exception No. 4: Derating factors shall not apply to underground conductors entering or leaving an outdoor trench if those conductors have physical protection in the form of rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit having a length not exceeding 3.05 m (10 ft) and if the number of conductors does not exceed four.

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Exception No. 5: Adjustment factors shall not apply to Type AC cable or to Type MC cable without an overall outer jacket under the following conditions:

(1) Each cable has not more than three current-carrying conductors.

(2) The conductors are 12 AWG copper.

(3) Not more than 20 current-carrying conductors are bundled, stacked, or supported on "bridle rings". (See Figure 9)

A 60 percent adjustment factor shall be applied where current-carrying conductors in these cables that are stacked or bundled longer than 600 mm (24 in.) without maintaining spacing exceeds 20.

(b) More Than One Conduit, Tube, or Raceway Spacing between conduits, tubing, or raceways shall be maintained.

Figure 9 - Bridle Rings

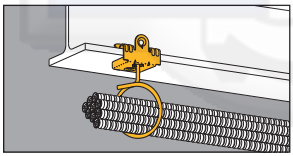
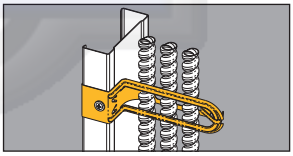


Figure 10 - BRC6M



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314.23 Supports. Enclosures within the scope of this article shall be supported in accordance with one or more of the provisions in 314.23 (A) through (H).

(C) Mounting in Finished Surfaces. An enclosure mounted in a finished surface shall be rigidly secured thereto by clamps, anchors, or fittings identified for the application. *(See Figures 11 & 12)*

(D) Suspended Ceilings. An enclosure mounted to structural or supporting elements of a suspended ceiling shall be not more than 1650 cm^3 (100 $in.^3$) in size and shall be securely fastened in place in accordance with either (D)(1) or (D)(2).

(1) Framing Members. An enclosure shall be fastened to the framing members by mechanical means such as bolts, screws, or rivets, or by the use of clips or other securing means identified for use with the type of ceiling framing member(s) and enclosure(s) employed. . . . . *(See Figure 13)*

(2) Support Wires. The installation shall comply with the provisions of 300.11(A). The enclosure shall be secured, using methods identified for the purpose to ceiling support wire(s), including any additional support wire(s) installed for that purpose. Support wire(s) used for enclosure support shall be fastened at each end so as to be taut within the ceiling cavity. *(See Figure 14)*

(E) Raceway Supported Enclosures, Without Devices, Luminaries (Fixtures), orLampholders. . . . It shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 900 mm (3 ft) of the enclosure, or within 450 mm (18 in.) of the enclosure if all conduit entries are on the same side. *(See Figure 15)*

(F) Raceway Supported Enclosures, With Devices, Luminaries (Fixtures), or Lampholders. . . . It shall be supported by two or more conduits threaded wrenchtight into the enclosure or hubs. Each conduit shall be secured within 450 mm (18 in.) of the enclosure. *(See Figure 15)*

314.27 Outlet Boxes

(B) Maximum Luminaire (Fixture) Weight. Outlet boxes or fitting installed as required by 314.23 shall be permitted to support luminaries (lighting fixtures) weighing 23 kg (50 lbs.) or less. A luminaire (lighting fixture) that weighs more than 23 kg (50 lbs.) shall be supported independently of the outlet box unless the outlet box is listed for the weight to be supported. *(See Figure 13)*

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(D) Boxes at Ceiling-Suspended (Paddle) Fan Outlets. Outlet boxes or outlet box systems used as the sole support of a ceiling-suspended (paddle) fan shall be listed, shall be marked by their manufacturer as suitable for this purpose, and shall not support ceiling-suspended (paddle) fans that weigh more than 32 kg (70 lb). For outlet boxes or outlet box systems designed to support of a ceiling-suspended (paddle) fans that weigh more than 16 kg (35 lb), the required marking shall include the maximum weight to be supported.
(See Figure 16)

Figure 11 - BB4-23

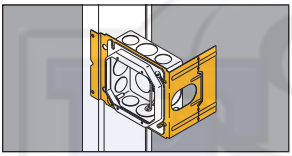


Figure 12 - BB9 & BB12



Figure 13 - BA50

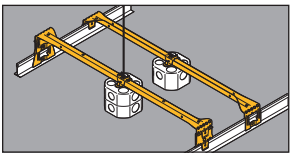


Figure 14 - BG-8-12-S18-W2

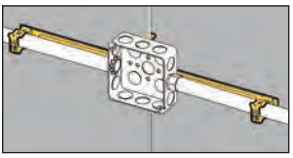


Figure 15 - BG-8-12-S18-U-2-4

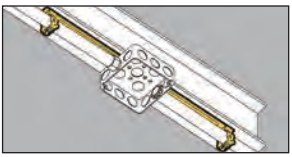
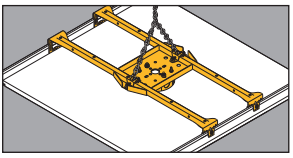


Figure 16 - BA50F



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Article 320
Armored Cable : Type AC

320.17 Through or Parallel to Framing Members. Type AC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. *(See Figures 17 & 18)*

320.30 Securing and Supporting.

(A) General. Type AC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings, designed and installed so as not to damage the cable.

(B) Securing. Unless otherwise provided, Type AC cable shall be secured within 300 mm (12 in.) of every out let box, junction box, cabinet, or fitting and at intervals not exceeding 1.4 m (4 1/2 ft) where installed on or across framing members. *(See Figures 19 -22)*

(C) Supporting. Unless otherwise provided, Type AC cable shall be supported at intervals not exceeding 1.4 m (4 1/2 ft). Horizontal runs of Type AC cable installed in wooden or metal framing members or similar supporting means shall be considered supported where such support does not exceed 1.4 m (4 1/2 ft) intervals.

Article 330
Metal-Clad Cable : Type MC

330.17 Through or Parallel to Framing Members. Type MC cable shall be protected in accordance with 300.4 (A), (C), and (D) where installed through or parallel to framing members. *(See Figures 17 & 18)*

330.30 Securing and Supporting.

(A) General. Type MC shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings or other approved means designed and installed so as not to damage the cable.

(B) Securing. Unless otherwise provided, cables shall be secured at intervals not exceeding 1.8 m (6 ft). Cables containing four or fewer conductors sized no larger than 10 AWG shall be secured within 300 mm (12 in.) of every box, cabinet, fitting or other cable termination. *(See Figure 19 - 22)*

(C) Supporting. Unless otherwise provided, cables shall be supported at intervals not exceeding 1.8 m (6ft). Horizontal runs of Type MC cable installed in wooden or metal framing members or similar supporting means shall be considered supported and secured where such support does not exceed 1.8 m (6 ft) intervals.

Article 334
Nonmetallic Sheathed Cables

334.17 Through or Parallel to Framing Members. Type NM, NMC, or NMS cable shall be protected in accordance with 300.4 where installed through or

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parallel to framing members. Grommets used as required in 300.4(B)(1) shall remain in place and be **listed** for the purpose of cable protection.
(See Figures 17 & 18)

334.30 Securing and Supporting. Nonmetallic-sheathed cable shall be supported and secured by staples, cable ties, straps, hangers, or similar fittings designed and installed so as not to damage the cable, at intervals not exceeding 1.4 m (4 1/2 ft) and within 300 mm (12 in.) of every outlet box, junction box, cabinet, or fitting. Flat cables shall not be stapled on edge. Sections of cable protected from physical damage by raceway shall not be required to be secured within the raceway.
(See Figures 19 - 22)

(A) Horizontal Runs Through Holes and Notches. In other than vertical runs, cables installed in accordance with 300.4 shall be considered to be supported and secured where such support does not exceed 1.4 m (4 1/2 ft) intervals and the nonmetallic-sheathed cable is securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other nonmetallic-sheathed cable termination.

FPN: See 314.17(C) for support where nonmetallic boxes are used.

Figure 17 - BM1/BM2

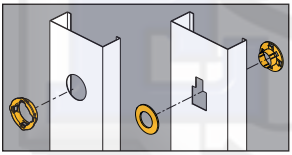


Figure 18 - BM3 & BM3M

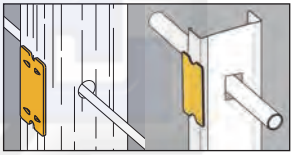


Figure 19 - BG-8-12-H7

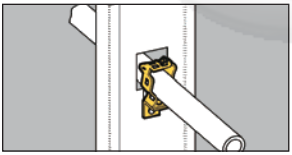


Figure 20 - BRC4 & BRC6M

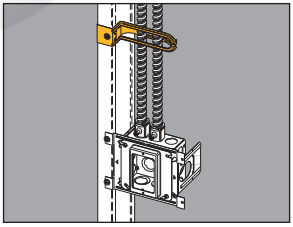


Figure 21 - BX5

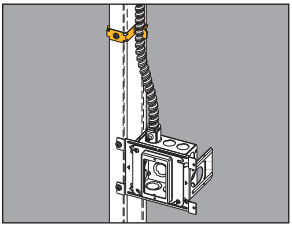
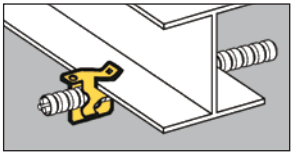


Figure 22 - BX4



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Article 344
Rigid Metal Conduit : Type RMC

344.30 Securing and Supporting.

(A) Securely Fastened. RMC shall be securely fastened within 900 mm (3 ft) of each outlet box, junction box, device box, cabinet, conduit body, or other conduit termination. Fastening shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft). Where approved, conduit shall not be required to be securely fastened within 900 mm (3 ft) of the service head for above-the-roof termination of a mast.
(See Figures 23 - 25)

(B) Supports. RMC shall be supported in accordance with one of the following:

(1) Conduit shall be supported at intervals not exceeding 3 m (10 ft).

(2) The distance between supports for straight runs of conduit shall be permitted in accordance with Table 344.30(B)(2), ...

(3) Exposed vertical risers from industrial machinery or fixed equipment shall be permitted to be supported at intervals not exceeding 6 m (20 ft) . . . .

(4) Horizontal runs of RMC supported by openings through framing members at intervals not exceeding 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. *(See Figure 26)*

Article 348
Flexible Metal Conduit: Type FMC

348.30 Securing and Supporting.

(A) Securely Fastened. FMC shall be securely fastened in place by an approved means within 300 mm (12 in.) of each box, cabinet, conduit body, or other conduit termination and shall be supported and secured at intervals not to exceed 1.4 m (4 1/2 ft).
(See Figures 23 - 25)

(B) Supports. Horizontal runs of FMC supported by openings through framing members at intervals not greater than 1.4 m (4 1/2 ft) and securely fastened within 300 mm (12 in) of termination points shall be permitted. *(See Figure 26)*

** See NFPA 70-2005 for exceptions.*

Article 358
Electrical Metallic Tubing - Type EMT

358.30 Securing and Supporting.

(A) Securely Fastened. EMT shall be securely fastened in place at least every 3 m (10 ft). In addition, each EMT run between termination points shall be securely within 900 mm (3 ft) of each outlet box, junction box,

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device box, cabinet, conduit body, or other tubing termination. *(See Figures 23 - 25)*

Exception No. 1: Fastening of unbroken lengths shall be permitted to be increased to a distance of 1.5 m (5 ft) where structural members do not readily permit fastening within 900 mm (3 ft).

Exception No. 2: For concealed work in finished buildings or prefinished wall panels where such securing is impracticable, unbroken lengths (with out coupling) of EMT shall be permitted to be fished.

(B) Supports. Horizontal runs of EMT supported by openings through framing members at intervals not greater than 3 m (10 ft) and securely fastened within 900 mm (3 ft) of termination points shall be permitted. *(See Figure 26)*

Article 362
Electrical Nonmetallic Tubing - Type ENT

362.30 Securing and Supporting.

(A) Securely Fastened. ENT shall be securely fastened at intervals not exceeding 900 mm (3 ft). In addition, ENT shall be securely fastened in place within 900 mm (3 ft) of each outlet box, device box, junction box, cabinet, or fitting where it terminates. *(See Figures 23 - 25)*

Exception No. 1: Lengths not exceeding a distance of 1.8 m (6 ft) from a luminaire (fixture) terminal connection for tap connection to lighting luminaries (fixtures) shall be permitted without being secured.

Exception No. 2: Lengths not exceeding 1.8 m (6 ft) from the last point where the raceway is securely fastened for connection within an accessible ceiling to luminaire(s) [lighting fixture(s)] or other equipment.

(B) Supports. Horizontal runs of ENT supported by openings in framing members at intervals not exceeding 900 mm (3 ft) of termination points shall be permitted. *(See Figure 26)*

Figure 23 - BG-8-12-S18-U-2-4

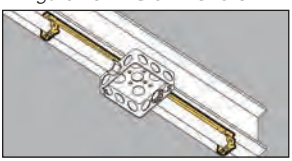


Figure 24 - BB38

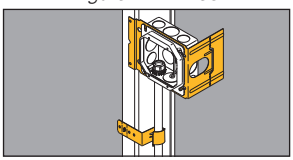


Figure 25 - BG-8-12-B1

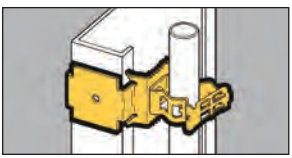
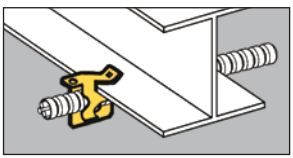


Figure 26 - BX4



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Article 410
Luminaries (Lighting Fixtures), Lampholders, and Lamps

410.16 Means of Support.

(A) Outlet Boxes. Outlet boxes or fittings installed as required by 314.23 and complying with the provisions of 314.27(A) and 314.27(B) shall be permitted to support luminaries (fixtures).

(C) Suspended Ceilings. Framing members of suspended ceiling systems used to support luminaries (fixtures) shall be securely fastened to each other and shall be securely attached to the building structure at appropriate intervals. Luminaries (fixtures) shall be securely fastened to the ceiling framing member by mechanical means such as bolts, screws, or rivets. **Listed** clips identified for use with the type of ceiling framing member(s) and luminaire(s) [fixture(s)] shall also be permitted. *(See Figures 27 - 31)*

410.104 Fastening. Lighting track shall be securely mounted so that each fastening is suitable for supporting the maximum weight of luminaries (fixtures) that can be installed. Unless identified for supports at greater intervals, a single section 1.2 m (4 ft.) or shorter in length shall have two supports, and, where installed in a continuous row, each individual section of not more than 1.2 m (4 ft.) in length shall have one additional support. *(See Figure 30)*

422.18 Support of Ceiling-Suspended (Paddle) Fans Ceiling-suspended (paddle) fans shall be supported independently of an outlet box or by **listed** outlet box or outlet box systems identified for the use and installed in accordance with 314.27(D). *(See Figure 32)*

Article 800
Communication Circuits

800.24 Mechanical Execution of Work. Communications circuits and equipment shall be installed in a neat and workmanlike manner. Cables installed exposed on the surface of ceilings and sidewalls shall be supported by the building structure in such a manner that the cable will not be damaged by normal building use. Such cables shall be secured by straps, staples, hangers, or similar fittings designed and installed so as not to damage the cable. The installation shall also conform with 300.4(D) and 300.11.

FPN: Accepted industry practices are described in ANSI/NECA/BICSI 568-2001, Standard for Installing Commercial Building Telecommunications Cabling, and other ANSI-approved installation standards.

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Figure 27 - BA15

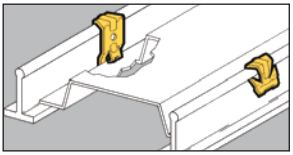


Figure 28 - BA1

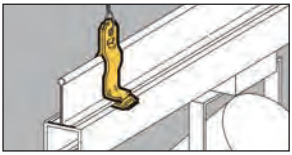


Figure 29 - BA40

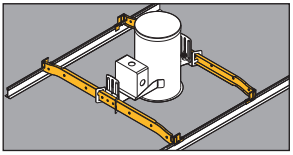


Figure 30 - BA 4-16 Series

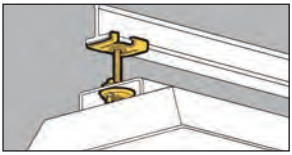


Figure 31 - BAX Series

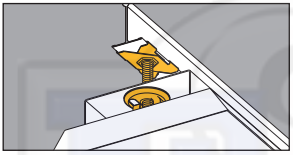
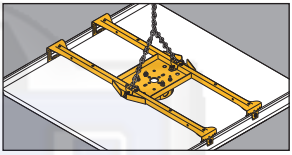


Figure 32 - BA50F



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ANSI/TIA/EIA-569-A

4. Horizontal pathways and related spaces

4.6 Ceiling pathway

4.6.2 Design guidelines

4.6.2.1 Planning. The design shall provide a suitable means for supporting cable from the telecommunications closet to the work areas to be served. Cable shall not be laid directly on the ceiling tile or rails.

4.6.2.2 Clearance. A minimum of 75 mm (3 in.) clear vertical space shall be available above the ceiling tiles for the horizontal cabling and pathway. *(See Figure 33)*

4.6.5 Cable support

4.6.5.1 Where zone conduit or cable tray is not available in a suspended ceiling space and where telecommunications cables are allowed to be placed in the ceiling, adequate open-top cable supports, located on 1220-1525 mm (48-60 inch) centers, shall be provided. Where larger quantities of cables (50-75 cables) bunched together in the ceiling at a congested area, such as close to the telecommunications closet, special supports shall be designed and installed to carry the additional weight. *(See Figures 33 & 34)*

4.6.5.2 A suspended ceiling support rod or wire may be used to mount appropriate cable fasteners loaded with multiple cables up to the total weight for which the fastener is approved. The T-bar rail of a suspended ceiling may be used to mount appropriate cable fasteners loaded with cable up to a total weight of 0.7 kg/m (0.45 lb/ft). The fastener design shall not interfere with the inserting or removing of the ceiling tile. *(See Figures 33 & 34)*

NOTES

1) A weight of 1.0 kg (2.2 lbs.) or 0.7 kg/m with spacing of support wire/rod at 1.5 m (5 ft.) is equivalent to a bundle of sixteen 4-pair 24 AWG UTP cables, including fasteners.

2) If any side pull is exerted on the support wire, like a turn in direction of the cables, the level of the ceiling tee rail could be affected.

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Figure 33 - BCHxx-A28

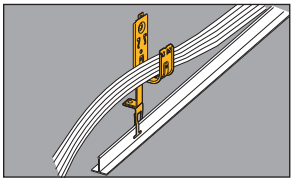
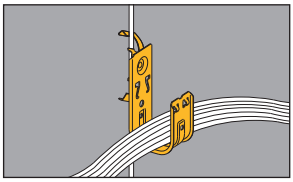


Figure 34 - BCHxx-W2

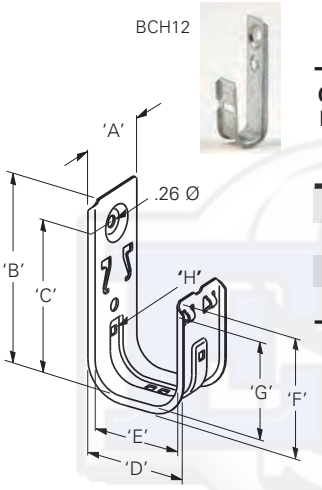


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Cable Hook Technical Data

Single-Sided Single-Tier Cable Fasteners

Hook Size In.	'A' In.	'B' In.	'C' In.	'D' In.	'E' In.	'F' In.	'G' In.	'H' In.
3/4	.88	3.18	2.68	1.00	.75	1.69	.94	--
1 5/16	1.62	3.62	2.81	1.69	1.31	2.00	1.37	.20
2	1.62	4.31	3.50	2.38	2.00	2.69	2.06	.20
4	2.00	6.81	5.56	4.55	4.00	4.84	4.06	.31

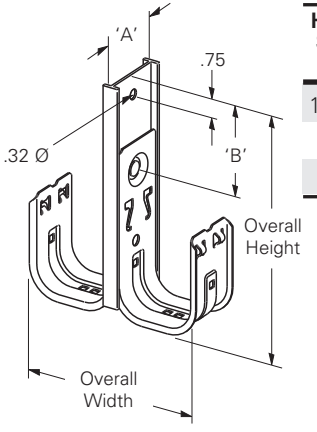


Load Capacity

Cable Hook Size In.	Static Load Capacity (S.F. 3) Galvanized & Stainless Steel Lbs.
3/4	30
1 5/16	30
2	30
4	30

Stated loads are per hook and should not be exceeded. The load capacity of a fastener having more than one component is equal to the load capacity of the lowest rated component.

Double-Sided Single-Tier Cable Fasteners

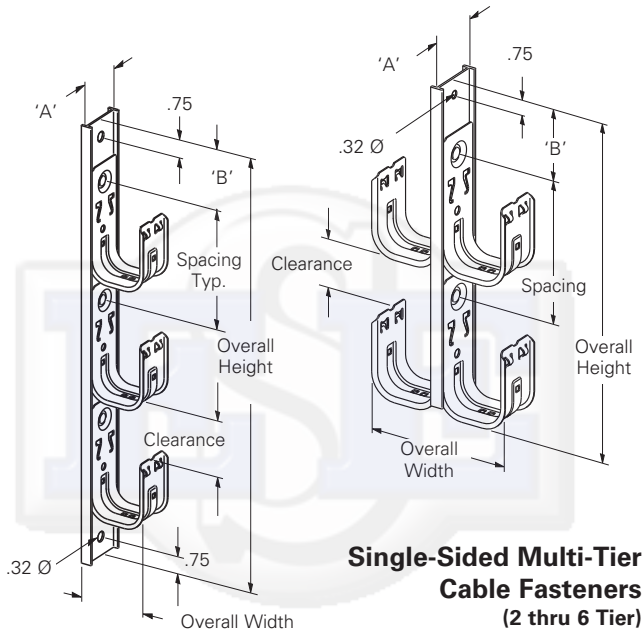


Hook Size In.	'A' In.	'B' In.	Overall Height In.	Overall Width In.
1 5/16	1.90	2.50	5.50	3.47
2	1.90	2.50	6.19	4.85
4	2.38	2.94	9.00	9.19

Cable Hook Technical Data

Double-Sided Double-Tier Cable Fasteners

Hook Size In.	'A' In.	'B' In.	Spacing In.	Clearance In.	Overall Height In.	Overall Width In.
15/16	1.90	2.50	3.75	1.94	9.25	3.47
2	1.90	2.50	4.75	2.25	10.94	4.85
4	2.38	2.94	9.38	4.50	18.20	9.19



Single-Sided Multi-Tier Cable Fasteners (2 thru 6 Tier)

Hook Size In.	No. Tiers In.	'A' In.	'B' In.	Spacing In.	Clearance In.	Overall Height In.	Overall Width
15/16	2	1.90	2.50	3.75	1.94	11.00	1.96
	3	1.90	2.50	3.75	1.94	14.75	1.96
	4	1.90	2.50	3.75	1.94	18.50	1.96
	5	1.90	2.50	3.75	1.94	22.25	1.96
	6	1.90	2.50	3.75	1.94	26.00	1.96
2	2	1.90	2.50	4.75	2.25	12.75	2.66
	3	1.90	2.50	4.75	2.25	17.50	2.66
	4	1.90	2.50	4.75	2.25	22.25	2.66
	5	1.90	2.50	4.75	2.25	27.00	2.66
	6	1.90	2.50	4.75	2.25	31.75	2.66
4	2	2.38	2.94	8.75	3.19	19.33	4.82
	3	2.38	2.94	8.75	3.19	28.08	4.82

Reference Data

Rigid Steel Conduit (Heavy Wall Conduit)

Nominal Conduit Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight Per 100 Ft. With Couplings Attached Lbs.	Weight of Conduit and Conductors Per 100 Ft.* Lbs.
3/8	0.675	0.493	51.5	65.1
1/2	0.840	0.632	79.0	101.1
3/4	1.050	0.836	105.0	145.8
1	1.315	1.063	153.0	219.3
1 1/4	1.660	1.394	201.0	318.3
1 1/2	1.900	1.624	249.0	408.8
2	2.375	2.083	332.0	593.8
2 1/2	2.875	2.489	527.0	901.0
3	3.500	3.090	682.0	1259.0
3 1/2	4.000	3.570	831.0	1604.0
4	4.500	4.050	972.0	1967.0

Intermediate Metal Conduit (IMC)

Nominal Conduit Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight Per 100 Ft. With Couplings Attached Lbs.	Weight of Conduit and Conductors Per 100 Ft.* Lbs.
1/2	0.815	0.745	60.0	82.1
3/4	1.029	0.954	82.0	122.8
1	1.290	1.205	116.0	182.3
1 1/4	1.638	1.553	150.0	267.3
1 1/2	1.883	1.793	182.0	341.8
2	2.360	2.266	242.0	503.8
2 1/2	2.857	2.727	401.0	775.0
3	3.476	3.346	493.0	1069.0
3 1/2	3.971	3.841	573.0	1346.0
4	4.466	4.336	638.0	1632.0

Dimensions taken from ANSI C80.3 - 1977.

* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

Electrical Metallic Tubing (EMT) - Thinwall Conduit

Nominal Conduit Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight Per 100 Ft. With Couplings Attached Lbs.	Weight of Conduit and Conductors Per 100 Ft.* Lbs.
3/8	0.577	0.493	23.0	36.6
1/2	0.706	0.622	28.5	50.6
3/4	0.922	0.824	43.5	84.3
1	1.163	1.049	64.0	130.3
1 1/4	1.510	1.380	95.0	212.3
1 1/2	1.740	1.610	110.0	269.8
2	2.197	2.067	140.0	401.8
2 1/2	2.875	2.731	205.0	579.0
3	3.500	3.356	250.0	826.3
3 1/2	4.000	3.834	325.0	1098.0
4	4.500	4.334	370.0	1364.0

Rigid Aluminum Conduit

Nominal Conduit Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight Per 100 Ft. With Couplings Attached Lbs.	Weight of Conduit and Conductors Per 100 Ft.* Lbs.
1/2	0.840	0.632	27.4	49.5
3/4	1.050	0.836	36.4	77.2
1	1.315	1.063	53.0	119.3
1 1/4	1.660	1.394	69.6	186.9
1 1/2	1.900	1.624	82.2	242.0
2	2.375	2.083	115.7	377.5
2 1/2	2.875	2.489	182.5	556.5
3	3.500	3.090	238.9	815.2
3 1/2	4.000	3.570	287.7	1061.0
4	4.500	4.050	340.0	1334.0
5	5.563	5.073	465.4	2028.0
6	6.625	6.093	612.5	2870.0

Dimensions taken from ANSI C80.3 - 1977.

* Conduit plus weight of heaviest conductor combination as specified by the National Electrical Code.

Reference Data

Schedule 40 PVC Plastic Pipe

Nominal Pipe Size In.	Outside Diameter In.	Wall Thickness In.	Weight of Pipe Lbs. Per Ft.	Weight of Water Lbs. Per Ft.
1/8	0.405	0.068	0.04	0.02
1/4	0.540	0.088	0.07	0.04
3/8	0.675	0.091	0.10	0.08
1/2	0.840	0.109	0.15	0.10
3/4	1.050	0.113	0.20	0.20
1	1.315	0.133	0.30	0.40
1 1/4	1.660	0.140	0.40	0.60
1 1/2	1.900	0.145	0.50	0.90
2	2.375	0.155	0.60	1.40
2 1/2	2.875	0.203	1.00	2.10
3	3.500	0.216	1.30	3.20
3 1/2	4.000	0.226	1.60	4.30
4	4.500	0.237	1.90	5.50

Electrical Non-Metallic Tubing (ENT)

Nominal Size In.	Outside Diameter In.	Nominal Inside Diameter In.	Minimum Weight of Conduit Lbs. Per 100 Ft.	Weight of Conduit and Conductors Lbs. Per 100 Ft.
1/2	0.840	0.560	11.0	33.1
3/4	1.050	0.760	14.0	54.8
1	1.315	1.000	20.0	86.3
1 1/4	1.660	1.402	19.0	136.3
1 1/2	1.990	1.554	27.0	186.8
2	2.375	2.030	32.0	261.8

All Threaded Rod (ATR)

Thread Size	Root Area	Design Load (SF=5)
1/4"-20	0.027 in.^{2}	240 lbs.
5/16"-18	0.045 in.^{2}	400 lbs.
3/8"-16	0.068 in.^{2}	610 lbs.

Tabulated loads are based on an allowable tensile stress of 12000 psi reduced by 25% resulting in 9000 psi. From ANSI/MSS SP-58, Table 3.

Dimensions taken from ANSI B1.1 1982 Unified Inch Screw Threads. All threads are UNCR series.

MC -- Metal Clad Cable Specifications

Trade Size	Grounding Conductor AWG	Armor O.D. In.	Approximate Wt. Per 100 Ft. Lbs.
14-2 Solid	14	0.470	17.5
14-3 Solid	14	0.480	20.5
14-4 Solid	14	0.510	23.0
12-2 Solid	12	0.495	21.5
12-3 Solid	12	0.530	25.5
12-4 Solid	12	0.565	29.5
10-2 Solid	10	0.560	28.5
10-3 Solid	10	0.600	34.0
10-4 Solid	10	0.645	39.5
8-2 Stranded	10	0.710	45.0
8-3 Stranded	10	0.770	54.5
8-4 Stranded	10	0.835	64.5
6-2 Stranded	8	0.795	59.0
6-3 Stranded	8	0.865	72.0
6-4 Stranded	8	0.945	86.0
4-2 Stranded	8	0.945	78.5
4-3 Stranded	8	1.035	98.5
4-4 Stranded	8	1.135	119.5
3-3 Stranded	6	1.025	107.0
3-4 Stranded	6	1.120	126.0
2-2 Stranded	6	1.075	104.5
2-3 Stranded	6	1.180	134.0
2-4 Stranded	6	1.295	164.0

Category 5 Cable

Pair Count	AWG Size	O.D. In.	Weight Lbs. Per 100 Ft.
2	24	0.16	1.3
3	24	0.18	1.7
4	24	0.20	2.1
6	24	0.27	3.5
8	24	0.30	4.2
25	24	0.50	13.0

Reference Data

Type NM -- Non-Metallic Sheathed Cable

Size AWG	Number of Strands	Ground Wire Size	Approximate O.D. In.	Approximate Weight Lbs. Per 100 Ft.
		Without Ground Wire		
14-2	Solid	–	.17 x .37	5.3
12-2	Solid	–	.19 x .40	7.0
10-2	Solid	–	.22 x .45	10.1
14-3	Solid	–	0.295	8.2
12-3	Solid	–	0.332	10.9
10-3	Solid	–	0.396	15.7
8-3	7	–	0.538	27.8
6-3	7	–	0.611	42.2
		With Ground Wire		
14-2	Solid	14	.17 x .37	6.4
12-2	Solid	12	.19 x .41	9.0
10-2	Solid	10	.22 x .49	13.3
8-2	7	10	.28 x .61	21.5
6-2	7	10	.32 x .73	31.3
14-3	Solid	14	.322	9.3
12-3	Solid	12	.363	12.9
10-3	Solid	10	.436	18.7
14-4	Solid	14	.450	11.6
12-4	Solid	12	.490	16.1
10-4	Solid	10	.550	23.3
8-3	7	10	.552	30.5
6-3	7	10	.611	45.0
4-3	7	8	.821	66.4
2-3	7	8	.946	93.0

Type THHN -- Insulated Single Conductor Building Wire

Trade Size	Approximate O.D. In.	Approximate Weight Lbs. Per 100 Ft.
14 AWG	0.11	1.7
12 AWG	0.13	2.5
10 AWG	0.16	4.0
8 AWG	0.22	6.5
6 AWG	0.25	9.7
4 AWG	0.32	15.5
3 AWG	0.35	19.1
2 AWG	0.38	23.6
1 AWG	0.45	30.4
1/0 AWG	0.49	37.5

AC -- Armored Cable Specifications

Trade Size	Armor O.D. In.	Approximate Weight Lbs. Per 100 Ft.
14-2 Solid	0.433	18.0
14-3 Solid	0.453	20.0
14-4 Solid	0.486	25.0
12-2 Solid	0.467	21.0
12-3 Solid	0.489	24.5
12-4 Solid	0.520	29.0
10-2 Solid	0.476	25.0
10-3 Solid	0.500	29.5
10-4 Solid	0.541	38.0
8-2 Solid	0.570	34.5
8-3 Solid	0.601	41.5
8-4 Solid	0.654	48.0
8-2 Stranded	0.604	34.5
8-3 Stranded	0.637	42.0
8-4 Stranded	0.695	51.5
6-2 Stranded	0.700	44.5
6-3 Stranded	0.739	56.0
6-4 Stranded	0.807	68.5
4-2 Stranded	0.836	62.0
4-3 Stranded	0.885	80.0
4-4 Stranded	0.971	99.5
3-3 Stranded	0.990	94.0
3-4 Stranded	1.085	118.0
2-2 Stranded	0.956	81.5
2-3 Stranded	1.014	109.5
2-4 Stranded	1.115	138.0

Index

Catalog No.	Page
1314	196
1316	196
1372	196
1380	196
5860	192
5874	192
6305	193
6307	193
6309	193
6311	193
6313	193
6323	194
6336	194
6338	194
6407SD	212
7187	190, 192
7195	192
7197	192
7198	192
9221	211
9231	211
9241	211
9323	195
9343	195
9353	195

A

ACB Series	196
ACPD Series	210
ACPW Series	209
ACS Series	197-198
ADA Series	203-204
ADI Series	193
ADE Series	207
ADH Series	195
ADM Series	194
ADN Series	213
AMS Series	211
APC Series	219
APD Series	218
APH Series	217
APS Series	216
ARC Series	191-192
ARS Series	189-190
ARW Series	192
ASA Series	205-206
ASE Series	208
ATB Series	214
ATM Series	212
AWA Series	199-200
AWS Series	215
AWSD Series	201-202
AZD Series	218

B

B1RRE	38
B1RRP4C	38
B1RRP5C	38
B1RRR	38
B2RRE	38
B2RRP4C	38
B2RRP5C	38
B2RRR	38
B3RRE	38
B3RRPC	38
B3RRR	38
B4RRE	38
B4RRPC	38
B4RRR	38
B444-1/4	110
B444-5/16	110
B444-3/8	110
B601-62	185
B1506S	52
B1508	52
B1508S	52
B1512	52
B1512S	52
B1516	52
B1516S	52
B1520	52
B1520S	52
B1524S	52
B1532S	52
B1534S	52
B1540S	52
B1548S	52
B1556S	52
B1564S	52
B3223-3/8	143

BA

BA1	87
BA1-9	87
BA1-24	87
BA1-32	87
BA1-95	87
BA1-T	87
BA1-T-BN	87
BA-2-9	91
BA-2-9-BN	91
BA-2-9-W	91
BA-2-9-WBN	91
BA-2-9-7	91
BA-2-9-7-BN	91
BA-2-16	90
BA-2-16-BN	90
BA-2-16-W	90
BA-2-16-WBN	90
BA-2-16-7	90
BA-2-16-7-BN	90
BA-2-16-7-W	90
BA-2-16-7-WBN	90
BA-4-9	91
BA-4-9-W	91
BA-4-16	89
BA-4-16-24	89
BA-4-16-32	89
BA-4-16-48	89

Catalog No.	Page
BA cont.	
BA-4-16-H	88
BA-4-16-H1	88
BA-4-16-W	89
BA-4-WN	89
BA-5-4T	77
BA-6-4T	78
BA12	81
BA12-12	81
BA12-20	81
BA12-30	81
BA14	76
BA15	76
BA17	86
BA18	86
BA20	86
BA-21	89
BA-21D	89
BA28	80
BA28B	144, 179
BA40	85
BA50	82
BA50A	83
BA50CAN	82
BA50C3T	82
BA50C4T	82
BA50D	82
BA50DCAN	82
BA50E	82
BA50F	84
BA50-OB-24	83
BA50-OB-34	83
BA50-SB-24	83
BA50-SB-34	83
BA311	92
BA311-W2	92
BA311-W6	92
BA-SFC	93
BA-SFC-CF	93
BA-SFC-CFS	93
BA-SFC-E	93
BA-SFC-S	93
BAX-4-16	88
BAX-4-16-24	88
BAX-4-16-32	88
BAX-4-16-48	88
BB	
BB1	20
BB2-16T	29
BB2-24T	29
BB2CL	30
BB2TS	29
BB4-4	25
BB4-4D	25
BB4-6	25
BB4-6D	25
BB4-23	25
BB4-23D	25
BB7-16	31
BB7-24	31
BB8-16	32
BB8-24	32
BB9	21
BB10	151
BB10-2	151
BB10-3	151
BB10-4	151
BB10L	152
BB10P	152
BB12	21
BB12-6	21
BB15	37, 154
BB-18	36
BB20	151
BB20L	152
BB27	81
BB32	24
BB33	24
BB33L	24
BB38	45
BB38D	45
BB40-08	37, 153
BB40-10	37, 153
BB40-12	37, 153
BB45-08	37, 153
BB45-10	37, 153
BB45-12	37, 153
BB70	27
BB70E	27
BB73	26
BB74	26
BB76	26
BB216TCL	30
BB216TS	29
BB224TCL	30
BB224TS	29
BBCC	33
BBF15	35
BBF15FC	35
BBF18	35
BBF18FC	35
BBF24	35
BBF24FC	35
BBFC	35
BBFS-18	33
BC	
BC1	111
BC442	100
BC442-6	100
BCH12	155-156
BCH12-A28	166
BCH12-C1	162
BCH12-C2	162
BCH12-C442	161
BCH12-C442A	161
BCH12-E-2-4	159
BCH12-E-5-8	159

Catalog No.	Page
BC cont.	
BCH12-E-9-12	159
BCH12-F3	164
BCH12-F4	164
BCH12-G-8-12	167
BCH12-L1410	167
BCH12-PNA	139
BCH12-RB	158
BCH12-SC4	163
BCH12-U-2-4	160
BCH12-U-5-8	160
BCH12-U-9-12	160
BCH12-W2	165
BCH12-W6	165
BCH21	155-156
BCH21-1D	168
BCH21-2D	168
BCH21-2S	169
BCH21-3S	169
BCH21-4S	170
BCH21-5S	170
BCH21-6S	170
BCH21-A28	166
BCH21-AB	158
BCH21-C1	162
BCH21-C2	162
BCH21-C442	161
BCH21-C442A	161
BCH21-E-2-4	159
BCH21-E-5-8	159
BCH21-E-9-12	159
BCH21-F3	164
BCH21-F4	164
BCH21-G-8-12	167
BCH21-L1410	167
BCH21-PNA	139
BCH21-RB	158
BCH21-SC4	163
BCH21-U-2-4	160
BCH21-U-5-8	160
BCH21-U-9-12	160
BCH21-W2	165
BCH21-W6	165
BCH21X	157
BCH32	155-156
BCH32-1D	168
BCH32-2D	168
BCH32-2S	169
BCH32-3S	169
BCH32-4S	170
BCH32-5S	170
BCH32-6S	170
BCH32-A28	166
BCH32-AB	158
BCH32-C1	162
BCH32-C2	162
BCH32-C442	161
BCH32-C442A	161
BCH32-E-2-4	159
BCH32-E-5-8	159

Catalog No.	Page
BCH32-E-9-12	159
BCH32-F3	164
BCH32-F4	164
BCH32-G-8-12	167
BCH32-L1410	167
BCH32-PNA	139
BCH32-RB	158
BCH32-SC4	163
BCH32-U-2-4	160
BCH32-U-5-8	160
BCH32-U-9-12	160
BCH32-W2	165
BCH32-W6	165
BCH32X	157
BCH64	155-156
BCH64-1D	168
BCH64-2D	168
BCH64-2S	169
BCH64-3S	169
BCH64-4S	170
BCH64-AB	158
BCH64-C1	162
BCH64-C2	162
BCH64-C442	161
BCH64-C442A	161
BCH64-F3	164
BCH64-F4	164
BCH64-G-8-12	167
BCH64-L1410	167
BCH64-PNA	139
BCH64-RB	158
BCH64-SC4	163
BCH64-U-2-4	160
BCH64-U-5-8	160
BCH64-U-9-12	150
BCH64X	157
BCH-HBA	171
BCH-HB21	171
BCH-HB64	171
BCHID-__12	156
BCHID-__21	156
BCHID-__32	156
BCHID-__64	156
BCHK1	172
BCHK2	172
BCHK3	172
BCHR21	154
BCHR32	154
BCHR64	154
BCS-8	67
BCS-8C	67
BCS-12	67
BCS-12AS	67
BCS-12C	67
BCS-16	67
BCS-16AS	67
BCS-16C	67
BCS-18	67
BCS-18C	67
BCS-20	67
BCS-20C	67

Catalog No.	Page
BD	
BD2	144, 179
BD4	144, 179
BD40	178
BE	
BE-1-2	96
BE-2-4	96
BE-2-4-CT2	150
BE-5-8	96
BE-5-8-CT2	150
BE-9-12	96
BE-9-12-CT2	150
BES-8	67
BES-8C	67
BES-12	67
BES-12C	67
BES-16	67
BES-16C	67
BF	
BF1	133
BF1-40	22
BF1-56	22
BF1-64	22
BF1-96	22
BF1-CT2	150
BF2	133
BF2-CT2	150
BF3	129
BF4	125
BF12	123
BF13	123
BFA-1215	66
BFA-1520	66
BG	
BG-6	48
BG-6-4T	48
BG-6-A5	77
BG-6-A6	78
BG-6-B1	20
BG-6-B5	23
BG-6-E-2-4	98
BG-6-E-5-8	98
BG-6-E-9-12	98
BG-6-F1	135
BG-6-F2	135
BG-6-F13	123
BG-6-H7	39
BG-6-PNA	140
BG6-S18	69
BG6-S18-MC3	69
BG6-S18-S	69
BG6-S18-S-MC3	69
BG6-S18-U24	116
BG6-S18-U24-MC3	116
BG6-S18-U58	116
BG6-S18-U58-MC3	116
BG6-S18-W2	70
BG6-S18-W2-MC3	70
BG6-S18-W6	70
BG6-S18-W6-MC3	70
BG6-SC4	138
BG-6-U-2-4	104
BG-6-U-5-8	104
BG-6-U-9-12	104
BG-8-12	48
BG-8-12-4T	48
BG-8-12-A5	77
BG-8-12-A6	78
BG-8-12-B1	20
BG-8-12-B5	23
BG-8-12-C1	112
BG-8-12-C2	111
BG-8-12-D3	68
BG-8-12-D4	68
BG-8-12-E-2-4	98
BG-8-12-E-2-4-AS	106
BG-8-12-E-5-8	98
BG-8-12-E-5-8-AS	106
BG-8-12-E-9-12	98
BG-8-12-E-9-12-AS	106
BG-8-12-F1	135
BG-8-12-F2	135
BG-8-12-F13	123
BG-8-12-G6	55
BG-8-12-G20	55
BG-8-12-G24	55
BG-8-12-G32	55
BG-8-12-G812	55
BG-8-12-H7	39
BG-8-12-PNA	140
BG812-S18	69
BG812-S18-MC3	69
BG812-S18S	69
BG812-S18-S-MC3	69
BG812-S18-U24	116
BG812-S18-U24-MC3	116
BG812-S18-U58	116
BG812-S18-U58-MC3	116
BG812-S18-W2	70
BG812-S18-W2-MC3	70
BG812-S18-W6	70
BG812-S18-W6-MC3	70
BG812-SC4	138
BG-8-12-U-2-4	104
BG-8-12-U-2-4-AS	106
BG-8-12-U-5-8	104
BG-8-12-U-5-8-AS	106
BG-8-12-U-9-12	104
BG-8-12-U-9-12-AS	106
BG-8-12-W2	59
BG-8-12-W6	59
BG-16	48
BG-16-4T	48
BG-16-A5	77
BG-16-A6	78
BG-16-B1	20

Catalog No.	Page
BG cont.	
BG-16-B5	23
BG-16-C1	112
BG-16-C2	111
BG-16-E-2-4	98
BG-16-E-2-4-AS	106
BG-16-E-5-8	98
BG-16-E-5-8-AS	106
BG-16-E-9-12	98
BG-16-E-9-12-AS	106
BG-16-F1	135
BG-16-F2	135
BG-16-F13	123
BG-16-G-6	50
BG-16-G-8-12	50, 55
BG-16-G-16	50
BG-16-G-20	50
BG-16-G-24	50
BG-16-G-32	50
BG-16-PNA	140
BG-16-S18	69
BG16-S18-MC3	69
BG16-S18-S	69
BG16-S18-S-MC3	69
BG16-S18-U24	116
BG16-S18-U24-MC3	116
BG16-S18-U58	116
BG16-S18-U58-MC3	116
BG16-S18-W2	70
BG16-S18-W2-MC3	70
BG16-S18-W6	70
BG16-S18-W6-MC3	70
BG-16-U-2-4	104
BG-16-U-2-4-AS	106
BG-16-U-5-8	104
BG-16-U-5-8-AS	106
BG-16-U-9-12	104
BG-16-U-9-12-AS	106
BG-16-W2	59
BG-16-W6	59
BG-20	48
BG-20-4T	48
BG-20-B5	23
BG-20-C1	112
BG-20-C2	111
BG-20-E-2-4	98
BG-20-E-5-8	98
BG-20-E-9-12	98
BG-20-F13	123
BG-20-U-2-4	104
BG-20-U-5-8	104
BG-20-U-9-12	104
BG-24	48
BG-24-4T	48
BG-24-C1	112
BG-24-C2	111
BG-24-E-2-4	98
BG-24-E-5-8	98
BG-24-E-9-12	98
BG-24-U-2-4	104
BG-24-U-5-8	104
BG-24-U-9-12	104
BG-32	48
BG-32-4T	48
BG-32-C1	112
BG-32-C2	111
BG-32-E-2-4	98
BG-32-E-5-8	98
BG-32-E-9-12	98
BG-32-U-2-4	104
BG-32-U-5-8	104
BG-32-U-9-12	104
BH	
BH1	136
BH1-E-2-4	121
BH1-E-5-8	121
BH1-E-9-12	121
BH1-F1	133
BH1-F2	133
BH1-F3	130
BH1-F4	126
BH1-F12	124
BH1-H7	141
BH1-H8	142
BH1-PNA	139
BH-1-2-R	120
BH2	136
BH2-E-2-4	121
BH2-E-5-8	121
BH2-E-9-12	121
BH2-F1	134
BH2-F2	134
BH2-F3	130
BH2-F4	126
BH2-F12	124
BH2-H7	141
BH2-H8	142
BH2-PNA	139
BH-2-4	120
BH-2-4-R	120
BH4	136
BH4-E-2-4	122
BH4-E-2-4-AS	105
BH4-E-5-8	122
BH4-E-5-8-AS	105
BH4-E-9-12	122
BH4-E-9-12-AS	105
BH4-F1	134
BH4-F2	134
BH4-F3	130
BH4-F4	126
BH4-F12	124
BH4-H7	141
BH4-H8	142
BH4-PNA	140
BH4-SC4	137
BH5	136
BH5-E-2-4	122
BH5-E-5-8	122

Catalog No.	Page
BH cont.	
BH5-E-9-12	122
BH5-F1	134
BH5-F2	134
BH5-F3	130
BH5-F4	126
BH5-F12	124
BH5-H7	141
BH5-H8	142
BH5-PNA	140
BH-5-8	120
BH-5-8-R	120
BH6	136
BH6-E-2-4	122
BH6-E-2-4-AS	105
BH6-E-5-8	122
BH6-E-5-8-AS	105
BH6-E-9-12	122
BH6-E-9-12-AS	105
BH6-F1	134
BH6-F2	134
BH6-F3	130
BH6-F4	126
BH6-F12	124
BH6-H7	141
BH6-H8	142
BH6-PNA	140
BH6-SC4	137
BH7	136
BH7-6	136
BH8	136
BH8-6	136
BH9	180
BH9-10	180
BH-9-12	120
BH-9-12-R	120
BH10	180
BH11	143
BH12	143
BH15	180
BH16	180
BHE-1-2	120
BH-F12	120
BH-F12-R	120
BH-H7	120
BH-PNA	139
BK	
BKA Series	184
BKB Series	184
BKC100	181
BKC200	181
BKCC	185
BKCP	185
BKF100-4	183
BKF100-6	183
BKH Series	184
BKL Series	184
BKP10063	182
BKP10094	182
BKP20125	182
BKP20188	182
BKT Series	184
BKW063	182
BKW094	182
BKW125	182
BKW188	182
BKYH Series	184
BKYT Series	184
BL	
BL1	147
BL2	147
BL3-8	148
BL3-12	148
BL3-16	148
BL3-20	148
BL-24-2	146
BL-24-4	146
BL-24-4C	146
BL-32-4	146
BL1400	53, 54
BL1400-C442	109
BL1400-PNA	140
BL1400-SC4	140
BL1410	53, 54
BL1410-C442	109
BL1410-L1400	56
BL1410-L1410	56
BL1410-L1420	56
BL1410-L1425	56
BL1410-L1430	56
BL1410-L1440	56
BL1410-L1450	56
BL1410-L1460	56
BL1410-L1470	56
BL1410-L1480	56
BL1410-PNA	140
BL1410-SC4	138
BL1420	53, 54
BL1420-C442	109
BL1420-PNA	140
BL1420-SC4	138
BL1425	53, 54
BL1425-C442	109
BL1430	53, 54
BL1430-C442	109
BL1440	53, 54
BL1440-C442	109
BL1450	53, 54
BL1450-C442	109
BL1460	53, 54
BL1470	53, 54
BL1480	53, 54
BL1490	53, 54

Index

Catalog No.	Page
BM	
BM1	46
BM1M	46
BM2	46
BM3	44
BM3M	44
BM5	179
BMB1	36
BN	
BN1	178
BN-2	178
BN-4	178
BN-6	178
BP	
BP-8	49
BP-8-4T	49
BP-8-A28	80
BP-8-A5	77
BP-8-A6	78
BP-8-B1	20
BP-8-B5	23
BP-8-C1	112
BP-8-C2	112
BP-8-D3	68
BP-8-D4	68
BP-8-E-2-4	97
BP-8-E-5-8	97
BP-8-E-9-12	97
BP-8-F13	123
BP-8-H7	39
BP-8-P-8	50
BP-8-P-12	50
BP-8-P-16	50
BP-8-PNA	140
BP8-S18	71
BP8-S18-MC3	71
BP8-S18S	71
BP8-S18-S-MC3	71
BP8-S18-U24	117
BP8-S18-U24-MC3	117
BP8-S18-U58	117
BP8-S18-U58-MC3	117
BP8-S18-W2	72
BP8-S18-W2-MC3	72
BP8-S18-W6	72
BP8-S18-W6-MC3	72
BP8-SC4	138
BP-8-U-2-4	103
BP-8-U-5-8	103
BP-8-U-9-12	103
BP-8-W2	60
BP-8-W6	60
BP-12	49
BP-12-4T	49
BP-12-A28	80
BP-12-A5	77

Catalog No.	Page
BP-12-A6	78
BP-12-B1	20
BP-12-B5	23
BP-12-C1	112
BP-12-C2	112
BP-12-D3	68
BP-12-D4	68
BP-12-E-2-4	97
BP-12-E-5-8	97
BP-12-E-9-12	97
BP-12-F13	123
BP-12-H7	39
BP-12-P-12	50
BP-12-P-16	50
BP-12-PNA	140
BP12-S18	71
BP12-S18-MC3	71
BP12-S18S	71
BP12-S18-S-MC3	71
BP12-S18-U24	117
BP12-S18-U24-MC3	117
BP12-S18-U58	117
BP12-S18-U58-MC3	117
BP12-S18-W2	72
BP12-S18-W2-MC3	72
BP12-S18-W6	72
BP12-S18-W6-MC3	72
BP12-SC4	138
BP-12-U-2-4	103
BP-12-U-5-8	103
BP-12-U-9-12	103
BP-12-W2	60
BP-12-W6	60
BP-16	49
BP-16-4T	49
BP-16-A28	80
BP-16-A5	77
BP-16-A6	78
BP-16-B1	20
BP-16-B5	23
BP-16-C1	112
BP-16-C2	112
BP-16-D4	68
BP-16-E-2-4	97
BP-16-E-5-8	97
BP-16-E-9-12	97
BP-16-F13	123
BP-16-P-16	50
BP-16-PNA	140
BP-16-S18	71
BP16-S18-MC3	71
BP16-S18S	71
BP16-S18-S-MC3	71
BP16-S18-U24	117
BP16-S18-U24-MC3	117
BP16-S18-U58	117
BP16-S18-U58-MC3	117
BP16-S18-W2	72
BP16-S18-W2-MC3	72
BP16-S18-W6	72
BP16-S18-W6-MC3	72

Catalog No.	Page
BP cont.	
BP-16-U-2-4	103
BP-16-U-5-8	103
BP-16-U-9-12	103
BP-16-W2	60
BP-16-W6	60
BPC-8	51
BPC-12	51
BPC-16	51
BPC-20	51
BPC-24	51
BPC-32	51
BPC-40	51
BPC-48	51
BPC-56	51
BPC-64	51
BPNA	139
BR	
BR-8-T	173
BR-12-T	173
BR-16-3W	173
BR-20-4T	173
BR-20-T	173
BR-24-4W	173
BR-32-4T	173
BR-32-4T-A6	176
BR-32-4T-C1	176
BR-32-4T-U-2-4	175
BR-32-4T-U-5-8	175
BR-32-4T-U-9-12	175
BR-32-4T-W2	175
BR-32-4W	173
BR-32-T	173
BR-64-4T	173
BRC1	43
BRC2	43
BRC3	62
BRC3-E-2-4	115
BRC3-E-5-8	115
BRC3-E-9-12	115
BRC3-F1	135
BRC3-F2	135
BRC3-W2	62
BRC3-W6	62
BRC4	42
BRC5-1	63
BRC5-1-C2	114
BRC5-1-C442	108
BRC5-1-E12	100
BRC5-1-E24	100
BRC5-1-E58	100
BRC5-1-E912	100
BRC5-1-F3	132
BRC5-1-F4	128
BRC51-S18	73
BRC51-S18-S	73
BRC51-S18-U24	118
BRC51-S18-U58	118

Catalog No.	Page
BRC51-S18-W2	74
BRC51-S18-W6	74
BRC51-SC4	138
BRC5-1-U24	102
BRC5-1-U58	102
BRC5-1-U912	102
BRC5-1-W2	64
BRC5-1-W6	64
BRC5-2	63
BRC5-2-C2	114
BRC5-2-C442	108
BRC5-2-E12	100
BRC5-2-E24	100
BRC5-2-E58	100
BRC5-2-E912	100
BRC5-2-F3	132
BRC5-2-F4	128
BRC52-SC4	138
BRC5-2-U24	102
BRC5-2-U58	102
BRC5-2-U912	102
BRC5-2-W2	64
BRC5-2-W6	64
BRC5-3	63
BRC5-3-C2	114
BRC5-3-C442	108
BRC5-3-E12	100
BRC5-3-E24	100
BRC5-3-E58	100
BRC5-3-E912	100
BRC5-3-F3	132
BRC5-3-F4	128
BRC6M	41
BRC53-S18	73
BRC53-S18-S	73
BRC53-S18-U24	118
BRC53-S18-U58	118
BRC53-S18-W2	74
BRC53-S18-W6	74
BRC53-SC4	138
BRC5-3-U24	102
BRC5-3-U58	102
BRC5-3-U912	102
BRC5-3-W2	64
BRC5-3-W6	64
BRS-32	174
BRS-32A	174
BRS-64A	174
BS	
BSC4	137

Index

Catalog No.	Page
BU	
BU-2-4	101
BU-2-4-S	101
BU-2-4-S-AS	105
BU-5-8	101
BU-5-8-S	101
BU-5-8-S-AS	105
BU-9-12	101
BU-9-12-S	101
BU-9-12-S-AS	105
BW	
BW2	57
BW2-CT2	150
BW2S	57
BW4	57
BW6	57
BW6-CT2	150
BW6S	57
BW-8	58
BW-12	58
BW-16	58
BW-20	58
BWHS-9	30, 186
BWHS-9D	30, 186
BX	
BX2	65
BX4	40
BX4-A5	79
BX4-A6	79
BX4-C1	113
BX4-C2	113
BX4-E-2-4	99
BX4-E-5-8	99
BX4-E-9-12	99
BX4-F3	131
BX4-F4	127
BX4-F13	124
BX4-H7	39
BX4-PNA	140
BX4-U-2-4	107
BX4-U-5-8	107
BX4-U-9-12	107
BX4-W2	61
BX4-W6	61
BX4M	40
BX4M-A5	79
BX4M-A6	79
BX4M-A28	80
BX4M-C1	113
BX4M-C2	113
BX4MD	40
BX4M-E-2-4	99
BX4M-E-5-8	99
BX4M-E-9-12	99
BX4M-F3	131
BX4M-F4	127

Catalog No.	Page
BX4M-F13	124
BX4M-H7	39
BX4M-PNA	140
BX4M-SC4	138
BX4M-U-2-4	107
BX4M-U-5-8	107
BX4M-U-9-12	107
BX4M-W2	61
BX4M-W6	61
BX5	45
BX6	65
BX-8	61
BX-8B	61
BX9	65
BX-18	61
BX24	65
BX82	42
BXL-67	66
BXL-89	66
BXL-1011	66
BXL-1214	66
BXL-1519	66
BXL-2024	66
BXL-2530	66
BXM-67	66
BXM-89	66
BXM-1011	66
BXM-1214	66
BXM-1519	66
BXM-2024	66
BXM-2530	66
BXS-67	66
BXS-89	66
BXS-1011	66
BXS-1214	66
BXS-1519	66
BXS-2024	66
BXS-2530	66
M	
MSQN 1/4	186
S	
SHHMS 1/4 x 1/2	186
SRHMS 1/4 x 3/8	81

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