

LIQUID-TUFF™

Non-UL Liquidtight VF Flexible Steel Conduit

Scope

This specification covers AFC Cable Systems, Inc. LIQUID-TUFF™ Liquidtight, Flexible Steel Conduit, VF designed for use in specific applications where the product is designed to be used for specific applications where Underwriters Laboratories Inc. (UL) or other agency approvals are not required, but when flexibility is required. The product is appropriate for use at 60°C (140°F) in a dry location, 60°C in a wet location or 60°C in an oily location. SUNLIGHT RESISTANT in all trade sizes. The product has no agency listing or certification.

Construction

The LIQUID-TUFF™ Liquidtight, Flexible Steel Conduit, VF core shall be formed into an interlocked steel conduit from a zinc coated galvanized low carbon steel strip having a uniform width and thickness. The convolutions of the interlock shall be filed with a fibrous material designed to promote flexibility.

Jacket - PVC

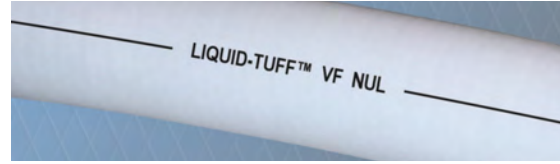
A rugged moisture, oil and sunlight resistant polyvinyl chloride (PVC) jacket shall be extruded directly over the interlocked flexible steel core with a wall thickness in conformance with Table 1 below. Jacket: Gray

Markings

The outer surface of the jacket shall be clearly marked with the applicable print legend.

Performance Tests

The completed LIQUID-TUFF™ Liquidtight, Flexible Steel Conduit, VF shall meet all of the performance requirements prescribed by applicable manufacturing standards.



Description

- Mechanical and moisture protection for conductors
- Sunlight resistant
- Flame retardant PVC jacket – Gray
- Hot dipped zinc galvanized low carbon steel core
- Very flexible

Temperature Rating

- 60°C to -20°C Dry
- 60°C Wet
- 60°C Oil resistant

Applications

- 600 volt and lower circuits
- Vibration and movement absorbing
- Made in USA of US and/or imported materials

Table 1.

| Conduit Trade | | Min. Acceptable Average Thickness of Jacket (inches) |
|---------------|-------------------|------------------------------------------------------|
| Trade Size | Metric Designator | |
| 3/8 | 12 | 0.030 |
| 1/2 | 16 | 0.030 |
| 3/4 | 21 | 0.035 |
| 1 | 27 | 0.035 |
| 1-1/4 | 35 | 0.035 |
| 1-1/2 | 41 | 0.040 |
| 2 | 53 | 0.040 |
| 2-1/2 | 63 | 0.050 |
| 3 | 78 | 0.050 |
| 3-1/2 | 91 | 0.060 |
| 4 | 103 | 0.060 |

| ORDERING INFORMATION | | | | | | PRODUCT DIMENSIONS/BEND RADIUS | | |
|----------------------|---------------------|-----------------|--------------------|--------------------|----------------------------------|--------------------------------|------------------------------------|----------------------|
| Product Code | Trade Size (inches) | Trade Size (mm) | Coil Length (feet) | Reel Length (feet) | Approx. Weight 100 feet (pounds) | External Diameter (inches) | Internal Diameter (min/max) inches | Bend Radius (inches) |
| | | | | | | Over Jacket (min/max) | | |
| 6101-30-00 | 3/8 | 12 | 100' | — | 22 | 0.690/0.710 | 0.484/0.504 | 2 |
| 6101-45-00 | 3/8 | 12 | — | 500' | 22 | 0.690/0.710 | 0.484/0.504 | 2 |
| 6101-60-00 | 3/8 | 12 | — | 1000' | 22 | 0.690/0.710 | 0.484/0.504 | 2 |
| 6101-65-00 | 3/8 | 12 | — | 2500' | 22 | 0.690/0.710 | 0.484/0.504 | 2 |
| 6102-30-00 | 1/2 | 16 | 100' | — | 26 | 0.820/0.840 | 0.622/0.642 | 3.25 |
| 6102-45-00 | 1/2 | 16 | — | 500' | 26 | 0.820/0.840 | 0.622/0.642 | 3.25 |
| 6102-60-00 | 1/2 | 16 | — | 1000' | 26 | 0.820/0.840 | 0.622/0.642 | 3.25 |
| 6102-68-00 | 1/2 | 16 | — | 3500' | 26 | 0.820/0.840 | 0.622/0.642 | 3.25 |
| 6103-30-00 | 3/4 | 21 | 100' | — | 33 | 1.030/1.050 | 0.820/0.840 | 4.25 |
| 6103-45-00 | 3/4 | 21 | — | 500' | 33 | 1.030/1.050 | 0.820/0.840 | 4.25 |
| 6103-60-00 | 3/4 | 21 | — | 1000' | 33 | 1.030/1.050 | 0.820/0.840 | 4.25 |
| 6103-66-00 | 3/4 | 21 | — | 2000' | 33 | 1.030/1.050 | 0.820/0.840 | 4.25 |
| 6104-30-00 | 1 | 27 | 100' | — | 45 | 1.290/1.315 | 1.041/1.066 | 6.5 |
| 6104-41-00 | 1 | 27 | — | 400' | 45 | 1.290/1.315 | 1.041/1.066 | 6.5 |
| 6105-24-00 | 1-1/4 | 35 | 50' | — | 60 | 1.630/1.660 | 1.380/1.410 | 8 |
| 6105-40-00 | 1-1/4 | 35 | — | 200' | 60 | 1.630/1.660 | 1.380/1.410 | 8 |
| 6105-47-00 | 1-1/4 | 35 | — | 750' | 60 | 1.630/1.660 | 1.380/1.410 | 8 |
| 6106-24-00 | 1-1/2 | 41 | 50' | — | 90 | 1.865/1.900 | 1.575/1.600 | 9 |
| 6106-35-00 | 1-1/2 | 41 | — | 150' | 90 | 1.865/1.900 | 1.575/1.600 | 9 |
| 6106-62-00 | 1-1/2 | 41 | — | 600' | 90 | 1.865/1.900 | 1.575/1.600 | 9 |
| 6107-24-00 | 2 | 53 | 50' | — | 120 | 2.340/2.375 | 2.020/2.045 | 11.12 |
| 6107-30-00 | 2 | 53 | — | 100' | 120 | 2.340/2.375 | 2.020/2.045 | 11.12 |
| 6107-80-00 | 2 | 53 | — | 300' | 120 | 2.340/2.375 | 2.020/2.045 | 11.12 |
| 6108-22-00 | 2-1/2 | 63 | 25' | — | 121 | 2.840/2.875 | 2.480/2.505 | 14.62 |
| 6108-79-00 | 2-1/2 | 63 | — | 275' | 121 | 2.840/2.875 | 2.480/2.505 | 14.62 |
| 6109-22-00 | 3 | 78 | 25' | — | 145 | 3.460/3.500 | 3.070/3.100 | 17.5 |
| 6109-56-00 | 3 | 78 | — | 175' | 145 | 3.460/3.500 | 3.070/3.100 | 17.5 |
| 6120-22-00 | 3-1/2 | 91 | 25' | — | 200 | 3.960/4.000 | 3.500/3.540 | 20 |
| 6120-56-00 | 3-1/2 | 91 | — | 175' | 200 | 3.960/4.000 | 3.500/3.540 | 20 |
| 6110-22-00 | 4 | 103 | 25' | — | 250 | 4.460/4.500 | 4.000/4.040 | 24 |
| 6110-30-00 | 4 | 103 | — | 100' | 250 | 4.460/4.500 | 4.000/4.040 | 24 |

NOTE: All dimensions and weights are subject to normal manufacturing tolerances. **Not for grounding.**

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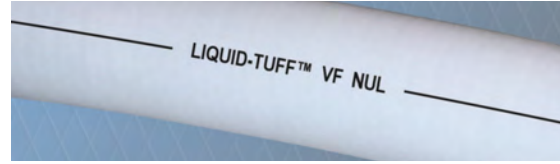
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