

# Southwire TYPE TC SDN® Flexible Control Cable

600 Volts, 90°C Dry, 75°C Wet. Flexible Strand Bare Copper, PVC/Nylon Conductors and Black Neoprene Jacket. Oil and Sunlight Resistant Jacket. Approved for Outdoor use and Direct Burial. Rated FT4 Flame Resistant.



Image not to scale and for reference only. See Table 1 for Dimensions.

## CONSTRUCTION:

- Conductors:** Class K, Flexible stranded bare copper per ASTM B3 and B174  
**Insulation:** Polyvinyl Chloride (PVC)  
**Color Code:** ICEA Method 1, Table E2. (Other color code options available with MOQ)  
**Jacket:** Nylon  
**Assembly:** The insulated and jacketed conductors are cabled together with fillers as required to form a round cabled assembly. A two mil mylar tape is helically applied over the cabled core to facilitate overall jacket removal.  
**Jacket:** Black, Heavy Duty, Sunlight and Oil Resistant Neoprene

## APPLICATIONS AND FEATURES:

Southwire SDN (Small Diameter Neoprene) Flexible Control Cable is for use in industrial power or control circuits where small diameter, flame retardant cables are desired. Primary installations include cable trays, raceways, and outdoor locations where supported by a messenger wire.

Southwire SDN Flexible Control Cable is listed for direct burial and for use in Class 1, Division 2 hazardous locations and Class 1 control circuits. Conductors may be used at temperatures not to exceed 75°C in wet locations or 90°C in dry locations.

Southwire SDN Flexible Control Cable is also CSA listed as Control and Instrumentation Cable (CIC), whereas conductors may be used at temperatures not to exceed 75°C in wet locations or 90°C in dry locations.

## SPECIFICATIONS:

- ASTM B3, B174
- UL 66 - TFFN Conductors (AWG 18 through 16)
- UL 83 - THHN Conductors (AWG 14 through 12)
- UL 1277 - Tray Cable
- CSA C22.2 No. 239 - CIC

## SAMPLE PRINT LEGEND:

SOUTHWIRE® SDN 12 AWG (3.31mm<sup>2</sup>) 4/C TC 90C DRY 75C WET SUN RES 600V DIR BUR E75755 (UL) --- 156205 CSA CIC 90C DRY 75C WET PVC/N (-40C) 600V SR OIL RES FT4



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | [www.southwire.com](http://www.southwire.com)

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**TABLE 1 - WEIGHTS & MEASUREMENTS**

| Stock Code                 | No. of Cond. | PVC Insulation Thickness (mils) | Nylon Thickness (mils) | Neoprene Jacket Thickness (mils) | Nominal OD (mils) | Nominal Weight (Lbs/Mft) |
|----------------------------|--------------|---------------------------------|------------------------|----------------------------------|-------------------|--------------------------|
| <b>18 AWG (16 STRANDS)</b> |              |                                 |                        |                                  |                   |                          |
| 569925xx                   | 3            | 15                              | 5                      | 45                               | 283               | 74                       |
| 569926xx                   | 5            | 15                              | 5                      | 45                               | 328               | 100                      |
| 569927xx                   | 6            | 15                              | 5                      | 45                               | 360               | 105                      |
| 569928xx                   | 8            | 15                              | 5                      | 45                               | 387               | 124                      |
| 571341xx                   | 10           | 15                              | 5                      | 45                               | 446               | 153                      |
| 569929xx                   | 12           | 15                              | 5                      | 45                               | 448               | 161                      |
| 569943xx                   | 14           | 15                              | 5                      | 45                               | 486               | 177                      |
| 571342xx                   | 16           | 15                              | 5                      | 45                               | 511               | 196                      |
| 569944xx                   | 19           | 15                              | 5                      | 60                               | 552               | 241                      |
| 571389xx                   | 24           | 15                              | 5                      | 60                               | 651               | 291                      |
| 569930xx                   | 37           | 15                              | 5                      | 60                               | 740               | 424                      |
| <b>16 AWG (26 STRANDS)</b> |              |                                 |                        |                                  |                   |                          |
| 569912xx                   | 2            | 15                              | 5                      | 60                               | 422               | 78                       |
| 571340xx                   | 3            | 15                              | 5                      | 60                               | 433               | 88                       |
| 569914xx                   | 4            | 15                              | 5                      | 60                               | 461               | 106                      |
| 569915xx                   | 5            | 15                              | 5                      | 60                               | 492               | 122                      |
| 569916xx                   | 6            | 15                              | 5                      | 60                               | 522               | 133                      |
| 569917xx                   | 7            | 15                              | 5                      | 60                               | 522               | 147                      |
| 569918xx                   | 8            | 15                              | 5                      | 60                               | 577               | 131                      |
| 570089xx                   | 9            | 15                              | 5                      | 60                               | 608               | 172                      |
| 569910xx                   | 10           | 15                              | 5                      | 60                               | 574               | 153                      |
| 569919xx                   | 12           | 15                              | 5                      | 60                               | 644               | 234                      |
| 570090xx                   | 14           | 15                              | 5                      | 60                               | 689               | 253                      |
| 569920xx                   | 16           | 15                              | 5                      | 60                               | 718               | 291                      |
| 569922xx                   | 19           | 15                              | 5                      | 60                               | 745               | 327                      |
| 569911xx                   | 24           | 15                              | 5                      | 60                               | 841               | 408                      |
| 569923xx                   | 30           | 15                              | 5                      | 60                               | 865               | 481                      |
| 569924xx                   | 37           | 15                              | 5                      | 60                               | 996               | 622                      |
| <b>14 AWG (41 STRANDS)</b> |              |                                 |                        |                                  |                   |                          |
| 569931xx                   | 3            | 15                              | 5                      | 60                               | 464               | 137                      |
| 569932xx                   | 4            | 15                              | 5                      | 60                               | 497               | 137                      |
| 569933xx                   | 5            | 15                              | 5                      | 60                               | 533               | 191                      |
| 569934xx                   | 6            | 15                              | 5                      | 60                               | 567               | 177                      |
| 570091xx                   | 8            | 15                              | 5                      | 60                               | 639               | 234                      |
| 569935xx                   | 10           | 15                              | 5                      | 60                               | 715               | 285                      |
| 570092xx                   | 12           | 15                              | 5                      | 60                               | 712               | 311                      |
| 569936xx                   | 16           | 15                              | 5                      | 60                               | 798               | 396                      |
| 570094xx                   | 24           | 15                              | 5                      | 60                               | 904               | 553                      |
| 570095xx                   | 37           | 15                              | 5                      | 60                               | 1099              | 826                      |
| <b>12 AWG (65 STRANDS)</b> |              |                                 |                        |                                  |                   |                          |
| 569937xx                   | 3            | 15                              | 5                      | 60                               | 504               | 146                      |
| 569938xx                   | 4            | 15                              | 5                      | 60                               | 542               | 174                      |
| 569940xx                   | 5            | 15                              | 5                      | 60                               | 584               | 210                      |
| 569941xx                   | 6            | 15                              | 5                      | 60                               | 624               | 240                      |
| 569942xx                   | 8            | 15                              | 5                      | 60                               | 740               | 340                      |
| 571313xx                   | 12           | 15                              | 5                      | 60                               | 808               | 438                      |

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