

TELCOFLEX® L2 Telecom Power Wire and Cable

Limited smoke, Non-halogenated Insulation, 105°C Dry, 60°C Wet

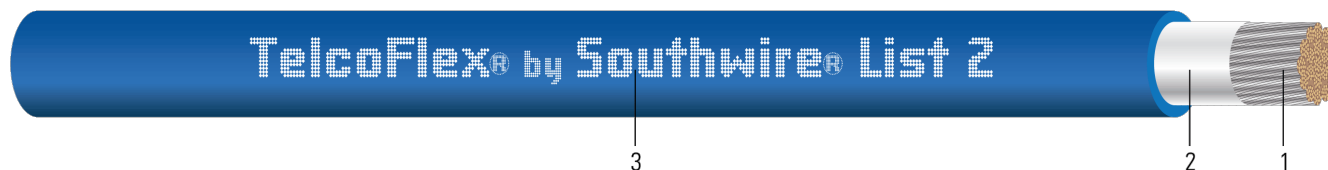


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

- Conductor:** Class K (14-10 AWG), Class I modified bunched (8 and 6 AWG) or rope bunched (4 AWG and larger) tinned copper
- Separator:** Opaque Mylar tape
- Insulation:** Limited smoke, non-halogenated, 105°C Dry, 60°C Wet TelcoHyde® 5221. Conforms to UL 44, UL 758, CSA C22.2 No. 210-11, and Telcordia Specification GR-347- CORE. Insulation has a Limiting Oxygen Index of 35%

APPLICATIONS AND FEATURES:

This specification covers the construction requirements for a limited smoke, non-halogenated power cable insulated with TelcoHyde® 5221. UL listed Type RHH, FT4-ST1 in accordance with the National Electrical Code. Product is for use in Central Office, CATV Head End, Data Center and Cell tower applications. Cable is suitable for UL "CT USE" (Cable Tray rated) in sizes 1/0 AWG and larger.

SPECIFICATIONS:

- ASTM B33 Standard Specification for Tin-Coated Soft or Annealed Copper Wire
- ASTM B172 Standard Specification for Rope-Lay-Stranded Copper Conductors Having Bunch-Stranded Copper Conductors
- UL 44 Type RHH, FT4-ST1, VW-1, 600 Volts DC or AC
- UL 2731 Telecommunications Central Office Power Cable
- CSA AWM IB 105°C 600V. FT4-ST1
- IEC including 60674 and 60332
- RoHS Compliant Lead-Free, Silicone-Free
- KS-24194™ List 2
- ATIS-0600017.2014 Non-Halogenated DC Power Wire and Cable for Telecommunications Power Systems
- Telcordia GR-347-CORE
- REACH - European Community Regulation



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



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SAMPLE PRINT LEGEND:

SIZES 14 AWG THROUGH 10 AWG:

SOUTHWIRE AIWTM CORD BRAND TELCOFLEX® II L2 NON-HAL (UL) E30117 SIZE (AWG) XXX STRAND CLASS I 600 VOLTS RHH ST1 FT4 OR AWM 3578 60°C WET VW-1 --- LL90458 CSA AWM I B 105°C 600 VOLTS FT4 (YYYY) (TIME JULIAN DATE) --- MEETS IEC INCLUDING 60674 & 60332

SIZES 8 AWG THROUGH 1 AWG:

SOUTHWIRE AIWTM CORD BRAND TELCOFLEX® II/KS24194TM L2 NON-HAL (UL) E30117 SIZE (AWG) XXX STRAND CLASS I 600 VOLTS RHH ST1 FT4 OR AWM 3578 60°C WET VW-1 --- LL90458 CSA AWM I B 105°C 600 VOLTS FT4 (YYYY) (TIME JULIAN DATE) --- MEETS IEC INCLUDING 60674 & 60332

SIZES 1/0 AWG THROUGH 750 KCMIL:

SOUTHWIRE AIWTM CORD BRAND TELCOFLEX® II/KS24194TM L2 NON-HAL (UL) E30117 SIZE (AWG OR KCMIL) XXX STRAND CLASS I 600 VOLTS RHH ST1 FT4 FOR CT USE OR AWM 3578 60°C WET VW-1 --- LL90458 CSA AWM I B 105°C 600 VOLTS FT4 (YYYY) (TIME JULIAN DATE) --- MEETS IEC INCLUDING 60674 & 60332

NOTE: CABLE SHALL BE PRINTED ON BOTH SIDES USING INK OF CONTRASTING COLOR; SEQUENTIAL FOOTAGE MARKS SHALL BE APPLIED 2 FOOT INTERNALS ON ONE SIDE OF THE CABLE.

PACKAGING:

All put-ups one length only unless agreed to otherwise. Maximum lengths per size will be advised. The ends of the cable shall be capped or taped to prevent the entrance of moisture during shipment or storage.

Table 1 – Physical and Electrical Data

| Cond. Size | Cond. Strands | Diameter Over Cond. | Insul. Thickness | Approx. OD | Approx. Weight | DC Resistance @ 20°C | Min Bending Radius | Allowable Ampacity 75°C * | Allowable Ampacity 90°C * |
|---------------|---------------|---------------------|------------------|------------|----------------|----------------------|--------------------|---------------------------|---------------------------|
| AWG/ Kcmil | strands | inch | mil | inch | lb/1000ft | Ω/1000ft | inch | Amp | Amp |
| 14 | 41 | 0.077 | 45 | 0.17 | 24 | 2.73 | 2 | 20 | 25 |
| 12 | 65 | 0.089 | 45 | 0.182 | 35 | 1.72 | 2 | 25 | 30 |
| 10 | 104 | 0.116 | 45 | 0.209 | 50 | 1.08 | 2 | 35 | 40 |
| 8 | 41 | 0.153 | 60 | 0.28 | 78 | 0.679 | 2 | 50 | 55 |
| 6 | 65 | 0.186 | 60 | 0.315 | 122 | 0.436 | 3 | 65 | 75 |
| 4 | 126 | 0.26 | 60 | 0.365 | 205 | 0.274 | 3 | 85 | 95 |
| 2 | 168 | 0.305 | 60 | 0.43 | 254 | 0.172 | 4 | 115 | 130 |
| 1 | 210 | 0.37 | 80 | 0.54 | 351 | 0.126 | 4 | 130 | 145 |
| 1/0 | 266 | 0.392 | 80 | 0.56 | 420 | 0.109 | 5 | 150 | 170 |
| 2/0 | 342 | 0.455 | 80 | 0.62 | 536 | 0.0565 | 5 | 175 | 195 |
| 4/0 | 532 | 0.577 | 80 | 0.745 | 792 | 0.0546 | 6 | 230 | 260 |
| 350 | 888 | 0.76 | 95 | 0.96 | 1250 | 0.0334 | 8 | 310 | 350 |
| 500 | 1221 | 0.89 | 95 | 1.09 | 1713 | 0.0234 | 9 | 380 | 430 |
| 750 | 1850 | 1.094 | 110 | 1.32 | 2682 | 0.0157 | 10 | 475 | 535 |

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Allowable Ampacity In Raceway per NEC Table 310.15(B)(16)



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TESTING:





Physical and electrical tests in accordance with the requirements of UL Standard 44, Standard 758 and CSA Standard C22.2 No. 210-11 as AWM.

LABELS

UL and CSA tags and labels shall be applied to all packages.

Stock Numbers and Colors

| Size (All Items are Not Braided) | Gray | Green | Blue | Red |
|----------------------------------|---|---|--|---|
| |  |  |  |  |
| 14 | 64884701 | 59286201 | 58868201 | 58868001 |
| 12 | 64884601 | 59286101 | 58867901 | 58867801 |
| 10 | 64446301 | 59286001 | 58868601 | 58867701 |
| 8 | 56987601 | 57178401 | 57833301 | 56987701 |
| 6 | 57158301 | 56986001 | 57144701 | 57126401 |
| 4 | 56981901 | 56982101 | 56981801 | 57128601 |
| 2 | 56974501 | 56974801 | 56975001 | 56975401 |
| 1/0 | 56966001 | 57144901 | 57149301 | 56966201 |
| 2/0 | 56977201 | 56977401 | 57149501 | 57149401 |
| 4/0 | 56983901 | 56984101 | 57128401 | 57128301 |
| 350 | 56980101 | 56980301 | 56979901 | 56980401 |
| 500 | 56962701 | 58370701 | 56962601 | 56962801 |
| 750 | 56960701 | 56960901 | 56960501 | 56961001 |

| Size (All Items are Not Braided) | Black | Red - Black Tracer | Blue - Black Tracer | Gray - Black Tracer |
|----------------------------------|---|---|--|---|
| |  |  |  |  |
| 14 | 58868501 | 58904201 | 58904001 | 64931801 |
| 12 | 59532301 | 58904101 | 58904301 | 64931701 |
| 10 | 58867601 | 59268301 | 59268401 | 64931601 |
| 8 | 56987501 | 56987801 | 59285901 | 64931501 |
| 6 | 56985801 | 57126601 | 57772401 | 56985901 |
| 4 | 56981701 | 56982301 | 57152901 | 56982001 |
| 2 | 56975301 | 56975501 | 56975101 | 56975201 |
| 1/0 | 56965901 | 56966301 | 57141801 | 56966101 |
| 2/0 | 56977001 | 57784901 | 56977101 | 56977301 |
| 4/0 | 57128501 | 57149601 | 56983801 | 56984001 |
| 350 | 56979701 | 56980501 | 56980001 | 56980201 |
| 500 | 57149801 | 57916801 | 58048101 | 57878701 |
| 750 | 56960301 | 57173501 | 56960601 | 57622601 |

