

TELCOFLEX® L2 Telecom Power Wire and Cable

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

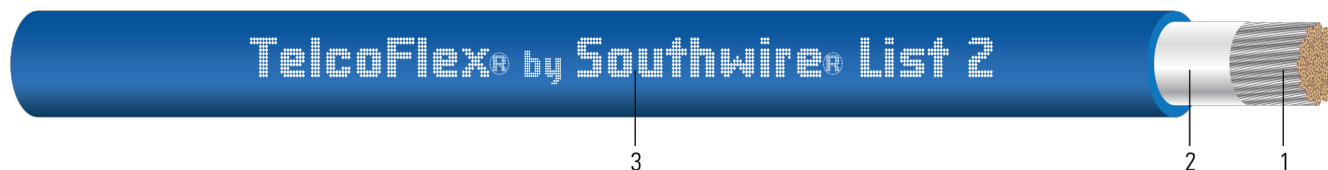


Image not to scale. See Table 1 for dimensions.

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



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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)



Southwire



Services



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

