TELCOFLEX® L2 Telecom Power Wire and Cable



Images not to scale. See Table 1 for Dimensions

CONSTRUCTION:

1. **Conductors:** Class I modified bunched (8 and 6 AWG) or rope bunched (4 AWG and larger) tinned copper
2. **Separator:** Mylar tape
3. **Insulation:** Limited smoke, non-halogenated, 105°C Dry, 60°C Wet

APPLICATIONS AND FEATURES:

This specification covers the construction requirements for a limited smoke, non-halogenated power cable insulated with TelcoHyde®. 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 1/0AWG and larger.

SPECIFICATIONS:

- ASTM B-33 and B-172 Class I tinned copper
- UL 44 Type RHH, FT4-ST1, VW-1, 600 Volts DC or AC
- KS-24194™ List 2
- UL 2731 Telecommunications Central Office Power Cable
- ATIS-0600017.2014 Non-Halogenated DC Power Wire and Cable for Telecommunications Power Systems
- Telecordia GR-347-CORE
- CSA AWM IB 105°C 600V. FT4-ST1
- Lead-Free, Silicone-Free, RoHS Complaint
- IEC including 60674 and 60332
- REACH - European Community Regulation

SAMPLE PRINT LEGEND:

SIZES 14 AWG THROUGH 10 AWG:

SOUTHWIRE AIW™ CORD BRAND TELCOFLEX® II L2 NON-HAL (UL) E30117 SIZE AWG 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

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SIZES 8 AWG THROUGH 1 AWG:
SOUTHWIRE AIW™ CORD BRAND TELCOFLEX® II/KS24194™ L2 NON-HAL (UL) E30117 SIZE (AWG OR KCMIL) 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 AIW™ CORD BRAND TELCOFLEX® II/KS24194™ L2 NON-HAL (UL) E30117 SIZE (AWG OR KCMIL) 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 AT 2 FOOT INTERVALS ON ONE SIDE OF THE CABLE.

TABLE 1 – PHYSICAL AND ELECTRICAL DATA

SIZE	STRANDING	NOMINAL CONDUCTOR DIAMETER (INCHES)	INSUL. MIN. AVG. WALL (MILS)	NOMINAL INSUL. DIAM. (INCHES)	MAX D.C RES @ 20°C (OHMS/MFT)	AMPACITY PER NEC TABLE 310.15(B)(16)	
						75°C	90°C
14	41	.077	45	.170	2.730	20	25
12	65	.089	45	.182	1.720	25	30
10	104	.116	45	.209	1.080	35	40
8	41	.153	60	.280	0.6790	50	55
6	65	.186	60	.315	0.4360	65	75
4	126	.260	60	.365	0.2740	65	95
2	168	.305	60	.430	0.1720	115	130
1	210	.370	80	.540	0.1260	130	150
1/0	266	.392	80	.560	0.1090	150	170
2/0	342	.455	80	.620	0.0565	175	195
4/0	532	.577	80	.745	0.0546	230	260
350	888	.760	95	.960	0.0334	310	350
500	1221	.890	95	1.090	0.0234	380	430
750	1850	1.094	110	1.320	0.0157	475	535

A. CONDUCTORS:
Class K copper used with 14-10 AWG. Class I modified bunched (8 AND 6AWG) or rope-bunched (4AWG and larger) stranded tin-coated copper conforming to ASTM B-33 and Underwriters' Laboratories requirements. An mylar tape shall be applied over the conductor to facilitate stripping.

B. INSULATION:
105°C rated low smoke, non-halogen TelcoHyde® conforming to Underwriters' Laboratories Standard 44, Standard 758 and CSA C22.2 No. 210-11. In addition, TelcoHyde® complies with the requirements of Telcordia Specification GR-347-CORE. The insulation has a Limiting Oxygen Index of 35%.

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C. 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.

D. LABELS:

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

E. LENGTHS AND 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.

PART NUMBERS FOR TELCOFLEX® L2

SIZE ALL ITEMS ARE NOT BRAIDED	TELCOFLEX LIST 2 COLORS							
	GRAY	GREEN	BLUE	RED	BLACK	RED	BLUE	GRAY
						BLACK TRACER	BLACK TRACER	BLACK TRACER
14	64884701	59286201	58868201	58868001	58868501	58904201	58904001	64931801
12	64884601	59286101	58867901	58867801	59532301	58904101	58904301	64931701
10	64446301	59286001	58868601	58867701	58867601	59268301	59268401	64931601
8	56987601	57178401	57833301	56987701	56987501	56987801	59285901	64931501
6	57158301	56986001	57144701	57126401	56985801	57126601	57772401	56985901
4	56981901	56982101	56981801	57128601	56981701	56982301	57152901	56982001
2	56974501	56974801	56975001	56975401	56975301	56975501	56975101	56975201
1/0	56966001	57144901	57149301	56966201	56965901	56966301	57141801	56966101
2/0	56977201	56977401	57149501	57149401	56977001	57784901	56977101	56977301
4/0	56983901	56964101	57128401	57128301	57128501	57149601	56983801	56984001
350	56980101	56980301	56979901	56980401	56979701	56980501	56980001	56980201
500	56962701	58370701	56962601	56962801	57149801	57916801	58048161	57878701
750	56960701	56960901	56960501	56961001	56960301	57173501	56960601	57622601



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