TELCOFLEX® L4 Telecom Power Wire and Cable

SPEC

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
4. **Separator Tape:** Mylar tape on 6 AWG and larger
5. **Cotton Braid**
6. **Saturant and Colored Finisher**

APPLICATIONS AND FEATURES:

This specification covers the construction requirements for a limited smoke, non-halogenated power cable insulated with TelcoHyde® with an overall flame retardant saturated braid. 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 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 4
- UL 2731 Telecommunications Central Office Power Cable
- ATIS-0600017.2014 Non-Halogenated DC Power Wire and Cable for Telecommunications Power System
- 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 8 AWG THROUGH 2 AWG:

SOUTHWIRE AIW™ CORD BRAND TELCOFLEX® IV/KS24194™ L4 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

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SIZES 1/0 AWG THROUGH 750 KCMIL:
SOUTHWIRE AIW™ CORD BRAND TELCOFLEX® IV/KS24194™ L4 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." BELOW THE LAST SAMPLE ACTUAL PRINT LEGEND.

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
8	41	.153	60	.277	0.679	50	55
6	65	.186	60	.312	0.436	65	75
4	126	.260	60	.383	0.274	85	95
2	168	.305	60	.438	0.172	115	130
1/0	266	.392	80	.555	0.109	150	170
2/0	342	.455	80	.618	0.0868	175	195
4/0	532	.577	80	.745	0.0546	230	260
350	888	.760	95	.953	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 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. A 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%.

C. SEPARATOR:
On sizes 6 AWG and larger, a mylar tape shall be applied over the insulation.

D. COVERING AND FINISH:
On all sizes, a natural cotton braid conforming to UL Standard 44 requirements is applied overall. A section of completed cable has a Limiting Oxygen Index of 35%. A moisture resistant, flame retardant saturant and a colored finisher are applied to the braid.

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E. 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.

F. LABELS:

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

G. 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® L4

SIZE ALL ITEMS ARE BRAIDED	TELCOFLEX LIST 4 COLORS						
	GRAY	GREEN	RED	BLUE	BLACK	RED	BLUE
						BLACK TRACER	BLACK TRACER
8	56988201	57206101	57178901	57179001	57532701	W40000	W40001
6	56987001	57150401	57153001	57126301	56986801	56987201	56986901
4	56983301	57936101	56983401	57168501	57157301	W40012	56983201
2	57145801	57192501	57168801	57149901	56976801	56976601	56976701
1/0	57050601	56967201	56967401	57155201	57138101	56967501	67835701
2/0	56978401	56978501	56978601	56978901	56978301	W40030	56979001
4/0	56985201	57126801	56985301	56985101	57126901	W40036	58324401
350	56981301	57310201	57168901	57137901	57150001	56979601	56981201
500	56963701	57850601	56963801	57155101	57157401	56963901	56962501
750	56961901	57145001	56962001	56961801	57150101	56962101	56962301

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