

# TELCOFLEX® L3 Telecom Power Wire and Cable



Images not to scale. See Table 1 for Dimensions

## CONSTRUCTION:

1. **Conductors:** Class B stranded, tinned copper
2. **Separator Tape:** 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-8 and B-33 Class B tinned copper
- UL 44 Type RHH, FT4-ST1, VW-1, 600 Volts DC or AC
- KS-24194™ List 3
- 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 8 AWG THROUGH 2 AWG:

SOUTHWIRE AIW™ CORD BRAND TELCOFLEX® III/KS24194™ L3 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® III/KS24194™ L3 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)	NOMINAL OUTSIDE DIAMETER OVER BRAID (INCHES)	MAX D.C RES @ 20°C (OHMS/MFT)	AMPACITY PER NEC TABLE 310.15(B)(16)	
							75°C	90°C
14	7/.0247"	.0708	45	.164	.226	2.730	20	25
12	7/.0311"	.0892	45	.182	.244	1.720	25	30
10	7/.0392"	.1130	45	.210	.272	1.080	35	40
8	7/.0495"	.1420	60	.265	.327	0.6795	50	55
6	7/.0624"	.1780	60	.304	.370	0.4276	65	75
4	7/.0787"	.2250	60	.348	.414	0.2689	85	95
2	7/.0992"	.2830	60	.406	.482	0.1691	115	130
1/0	19/.0760"	.3620	80	.530	.606	0.1063	150	170
2/0	19/.0853"	.4050	80	.579	.651	0.08432	175	195
4/0	19/.1076"	.5120	80	.688	.756	0.05248	230	260
350	37/.0991"	.6610	95	.854	.930	0.03206	310	350
500	37/.1185"	.7900	95	.983	1.059	0.02222	380	430
750	61/.1130"	.9680	110	1.200	1.276	0.01481	475	535

**A. CONDUCTORS:**

Class B 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%.

**C. SEPARATOR:**

On sizes 6 AWG and larger, a 1 mil 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 on 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® L3**

SIZE ALL ITEMS ARE NOT BRAIDED	TELCOFLEX LIST 3 COLORS							
	GRAY	GREEN	BLUE	RED	BLACK	RED	BLUE	GRAY
						BLACK TRACER	BLACK TRACER	BLACK TRACER
14	57133601	57145701	57155601	57133701	57133501	64157301	W39794	
12	56969501	56969601	56969401	56969701	56969301	W39799	W39800	
10	57051101	56968201	56968001	56968301	56967901	56968401	W39806	
8	57126701	56988001	57149001	56988101	56987901	W39811	W39812	W40771
6	56986401	56986501	56986201	56986601	56986101	56986701	57149101	57141001
4	56982601	56982801	56982401	56982901	57128701	56983101	56982501	56982701
2	56975701	56976001	56976101	56975801	56975901	56976201	56976301	56976501
1/0	56966701	56966901	56966401	56967001	57138401	56967101	56966601	56966801
2/0	56977701	56977901	56977501	56978101	57138301	56978201	56977601	56977801
4/0	56984501	56984701	56984301	56984901	56984201	56985001	56984401	56984601
350	56980801	57156901	57149201	56981001	57138201	56981101	56980701	56980901
500	56963301	56963501	56963001	57155501	56962901	56963601	56963101	56963401
750	56961301	56961501	56961101	56961701	58203701	57126201	56961201	56961401

