

TELCOFLEX® L4 Telecom Power Wire and Cable

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

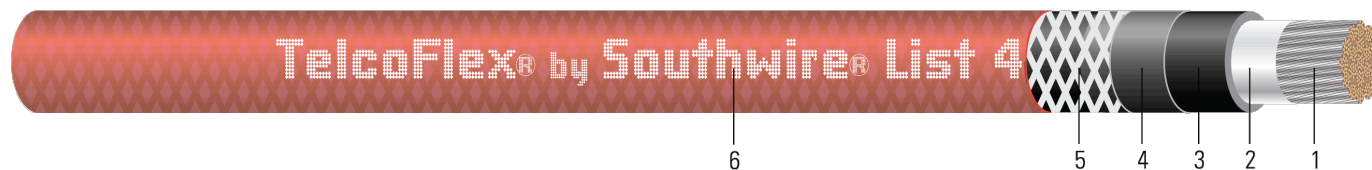


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class I modified bunched (8 and 6 AWG) or rope bunched (4 AWG and larger) tinned copper, conforming to ASTM B-33
2. **Separator Tape:** Opaque Mylar tape
3. **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%
4. **Separator Tape:** 1 mil clear mylar tape on 6 AWG and larger
5. **Cotton Braid:** Overall natural cotton braid conforming to UL 44
6. **Saturant and Colored Finisher:** Moisture resistant, fire retardant saturant and a colored finisher

APPLICATIONS AND FEATURES:

This specification covers the construction requirements for a limited smoke, non-halogenated power cable insulated with TelcoHyde® 5221 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 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 4
- 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



Southwire

**CABLETECH
SUPPORT™**

Services

SAMPLE PRINT LEGEND:

SIZES 8 AWG THROUGH 2 AWG:

SOUTHWIRE AIWTM CORD BRAND TELCOFLEX® IV/KS24194TM L4 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® IV/KS24194TM L4 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	Diameter Over Insulation	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	inch	lb/1000ft	Ω/1000ft	inch	Amp	Amp
8	41	0.153	60	0.277	0.3305	93	0.679	2	50	55
6	65	0.186	60	0.312	0.366	136	0.436	3	65	75
4	126	0.26	60	0.383	0.44	212	0.274	3	85	95
2	168	0.305	60	0.438	0.495	280	0.172	4	115	130
1/0	266	0.392	80	0.555	0.612	450	0.109	5	150	170
2/0	342	0.455	80	0.618	0.675	562	0.0868	5	175	195
4/0	532	0.577	80	0.745	0.81	828	0.0546	6	230	260
350	888	0.76	95	0.953	1.01	1291	0.0334	8	310	350
500	1221	0.89	95	1.09	1.142	1776	0.0234	9	380	430
750	1850	1.094	110	1.32	1.374	2740	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)

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.










Southwire



Services

Stock Numbers and Colors

Size (All Items are Braided)	Gray	Green	Blue	Red
				
8	56988201	57206101	57179001	57178901
6	56987001	57150401	57126301	57153001
4	56983301	57936101	57168501	56983401
2	57145801	57192501	57149901	57168801
1/0	57050601	56967201	57155201	56967401
2/0	56978401	56978501	56978901	56978601
4/0	56985201	57126801	56985101	56985301
350	56981301	57310201	57137901	57168901
500	56963701	57850601	57155101	56963801
750	56961901	57145001	56961801	56962001

Size (All Items are Braided)	Black	Red - Black Tracer	Blue - Black Tracer
			
8	57532701	W40000	W40001
6	56986801	56987201	56986901
4	57157301	W40012	56983201
2	56976801	56976601	56976701
1/0	57138101	56967501	67835701
2/0	56978301	W40030	56979001
4/0	57126901	W40036	58324401
350	57150001	56979601	56981201
500	57157401	56963901	56962501
750	57150101	56962101	56962301

