



Southwire®



DATE: 3-13-15

PRODUCT SPECIFICATION 13877 U

TYPE: TelcoFlex® II / KS24194™ L2
Central Office Power Wire and Cable
Low Smoke, Non-Halogenated Insulated (Without Braid)
Lead-Free and Silicone Free, Meets European RoHS Directive
105°C Dry, 60°C Wet - 600 Volts
UL Listed RHH/ST1 and VW-1
UL Listed "For CT Use" (1/0 & Larger)
CSA AWM I B 105°C, 600 Volts, FT4
Audited by Telcordia to all 33 requirements of GR-347-CORE
Meets all requirements of ATIS-0600017.2014
Meets IEC Including 60674 & 60332
REACH – European Community Regulation

SIZE: 14 AWG thru 750 KCMIL - Single Conductor

I. SCOPE:

This specification covers the construction requirements for low smoke, non-halogenated central office power wire and cable, insulated with Southwire TelcoHyde® 5221. UL listed Type RHH/ST1 for use in accordance with the National Electrical Code. The construction of the wire and cable is in accordance with Telcordia GR-347-CORE and KS-24194™ and ATIS-0600017.2014, Underwriters' Laboratories requirements, and the requirements of CSA for the FT4 flame test. Sizes 1/0 AWG and larger are UL "CT Use" (Cable Tray) rated.

II. CONSTRUCTION:

SIZE	STRANDING	NOMINAL CMA	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	4110	.077	45	.170	2.730	20	25
12	65	6530	.089	45	.182	1.720	25	30
10	104	10380	.116	45	.209	1.080	35	40
8	41	16510	.153	60	.280	0.6790	50	55
6	65	26240	.188		.315	0.4360	65	75
4	105	41740	.260		.385	0.2740	85	95
2	168	66360	.305		.430	0.1720	115	130
1	224	83690	.370	80	.540	0.1260	130	150
1/0	266	105600	.392		.560	0.1090	150	170
2/0	342	133100	.455		.620	0.0868	175	195
4/0	532	211600	.577		.745	0.0546	230	260
350	888	350000	.760	95	.960	0.0334	310	350
500	1221	500000	.890		1.090	0.0234	380	430
750	1850	750000	1.094		1.320	0.0157	475	535



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A. CONDUCTORS:

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

B. INSULATION:

105°C rated low smoke, non-halogen TelcoHyde[®] 5221 conforming to Underwriters' Laboratories Standard 44, Subjects 509 and 758, and CSA C22.2 No. 210-11. In addition, TelcoHyde[®] 5221 complies with the requirements of Telcordia Specification GR-347-CORE. The insulation has a Limiting Oxygen Index of 35%.

C. SURFACE MARKING:

Two sides of the cable shall be printed using an ink of a contrasting color and with the following information:

“SOUTHWIRE AIW[™] CORD BRAND TELCOFLEX[®] II/KS24194[™] L2 NON-HAL (UL) E18321 SIZE (AWG or KCMIL) 600 VOLTS RHH ST1 FT4 OR AWM 3578 60°C WET VW-1 --- LL8825 CSA AWM I B 105°C 600 VOLTS FT4-ST1 YEAR TIME JULIAN DATE --- MEETS IEC INCLUDING 60674 & 60332”

Note: KS24194[™] L2 printed on 8-750 only.

Add “FOR CT USE” before “(AWM 3578)” on Sizes 1/0 AWG and larger.

Sequential footage markings shall be applied at 2 foot intervals on one side of the cable.

D. TESTING:

Physical and electrical tests in accordance with the requirements of UL Std. 44, Subject 509 and 758, and CSA Standard C22.2 No. 210-11 as AWM.

E. LABELS:

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

F. LENGTHS:

All put-ups one length only unless agreed to otherwise. Maximum lengths per size will be advised.



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G. PACKAGING:

The ends of the cable shall be capped or taped to prevent the entrance of moisture during shipment or storage.

H. PART NUMBERS for TelcoFlex® II / KS24194™ 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
750	56960701	56960901	56960501	56961001	56960301	57173501	56960601	57622601
500	56962701	58370701	56962601	56962801	57149801	57916801	58048101	57878701
350	56980101	56980301	56979901	56980401	56979701	56980501	56980001	56980201
4/0	56983901	56984101	57128401	57128301	57128501	57149601	56983801	56984001
2/0	56977201	56977401	57149501	57149401	56977001	57784901	56977101	56977301
1/0	56966001	57144901	57149301	56966201	56965901	56966301	57141801	56966101
2	56974501	56974801	56975001	56975401	56975301	56975501	56975101	56975201
4	56981901	56982101	56981801	57128601	56981701	56982301	57152901	56982001
6	57158301	56986001	57144701	57126401	56985801	57126601	57772401	56985901
8	56987601	57178401	57833301	56987701	56987501	56987801	W39873	W40761
10			58868601	58867701	58867601			
12			58867901	58867801		58904101	58904301	
14			58868201	58868001	58868501	58904201	58904001	

