TELCOFLEX® L2 Telecom Power Wire and Cable

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

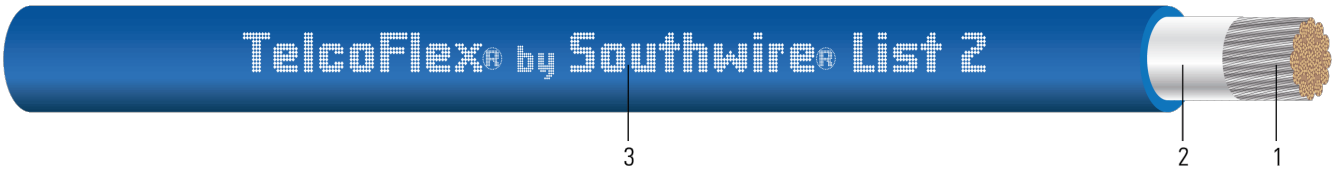


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class K (14-10 AWG), Class I modified bunched (8 and 6 AWG) or rope bunched (4 AWG and larger) tinned copper
2. **Separator:** 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%

APPLICATIONS AND FEATURES:

This specification covers the construction requirements for a limited smoke, non-halogenated power cable insulated with TelcoHyde® 5221. 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, Halogen Free
- ATIS 0600017.2020 List 2
- Telcordia GR-347-CORE

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SAMPLE PRINT LEGEND:

SIZES 14 AWG THROUGH 10 AWG:

{SQFTG} SOUTHWIRE AIW{TM} CORD BRAND TELCOFLEX ® II ATIS 0600017.2020 L2 NON-HAL (UL) E30117 XXX AWG CLASS K (XXXmm2) 600 VOLTS RHH ST1 FT4 OR AWM 3578 60°C WET --- LL90458 (CSA) AWM I B 105°C 600 VOLTS FT4-ST1 {YYYY} {HH:MM} {JULIAN} --- MEETS IEC INCLUDING 60674 & 60332---MEETS GR-347

SIZES 8 AWG THROUGH 1 AWG:

{SQFTG} SOUTHWIRE AIW{TM} CORD BRAND TELCOFLEX ® II ATIS 0600017.2020 L2 NON-HAL (UL) E30117 XXX AWG CLASS I (XXXmm2) 600 VOLTS RHH ST1 FT4 OR AWM 3578 60°C WET --- LL90458 (CSA) AWM I B 105°C 600 VOLTS FT4-ST1 {YYYY} {HH:MM} {JULIAN} --- MEETS IEC INCLUDING 60674 & 60332---MEETS GR-347

SIZES 1/0 AWG THROUGH 750 KCMIL:

{SQFTG} SOUTHWIRE AIW{TM} CORD BRAND TELCOFLEX ® II ATIS 0600017.2020 L2 NON-HAL {UL} E30117 XXX AWG CLASS I (XXX{mm2}) 600 VOLTS RHH ST1 FT4 SR FOR CT USE OR AWM 3578 60°C WET --- LL90458 {CSA} AWM I B 105°C 600 VOLTS FT4-ST1 {YYYY} {HH:MM} {JULIAN} --- MEETS IEC INCLUDING 60674 & 60332---MEETS GR-347

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.

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Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Diameter Over Insulation	Approx. OD	Approx. Weight	DC Resistance @ 25°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
648847	14	41	0.073	45	0.163	0.178	27	2.814	1.4	20	25
592862	14	41	0.073	45	0.163	0.178	27	2.814	1.4	20	25
588682	14	41	0.073	45	0.163	0.178	27	2.814	1.4	20	25
588680	14	41	0.073	45	0.163	0.178	27	2.814	1.4	20	25
588685	14	41	0.073	45	0.163	0.178	27	2.814	1.4	20	25
589042	14	41	0.073	45	0.163	0.178	27	2.814	1.4	20	25
589040	14	41	0.073	45	0.163	0.178	27	2.814	1.4	20	25
648846	12	65	0.094	45	0.184	0.195	36	1.774	1.6	25	30
592861	12	65	0.094	45	0.184	0.195	36	1.774	1.6	25	30
588679	12	65	0.094	45	0.184	0.195	36	1.774	1.6	25	30
588678	12	65	0.094	45	0.184	0.195	36	1.774	1.6	25	30
595323	12	65	0.094	45	0.184	0.195	36	1.774	1.6	25	30
589041	12	65	0.094	45	0.184	0.195	36	1.774	1.6	25	30
589043	12	65	0.094	45	0.184	0.195	36	1.774	1.6	25	30
649317	12	65	0.094	45	0.184	0.195	36	1.774	1.6	25	30
644463	10	104	0.125	45	0.215	0.217	50	1.04	1.7	35	40
592860	10	104	0.125	45	0.215	0.217	50	1.04	1.7	35	40
588686	10	104	0.125	45	0.215	0.217	50	1.04	1.7	35	40
588677	10	104	0.125	45	0.215	0.217	50	1.04	1.7	35	40
588676	10	104	0.125	45	0.215	0.217	51	1.04	1.7	35	40
592683	10	104	0.125	45	0.215	0.217	50	1.04	1.7	35	40
592684	10	104	0.125	45	0.215	0.217	50	1.04	1.7	35	40
649316	10	104	0.125	45	0.215	0.217	50	1.04	1.7	35	40
569876	8	41	0.145	60	0.265	0.29	84	0.654	2.3	50	55
571784	8	41	0.145	60	0.265	0.29	83	0.654	2.3	50	55
578333	8	41	0.145	60	0.265	0.29	84	0.654	2.3	50	55
569877	8	41	0.145	60	0.265	0.29	84	0.654	2.3	50	55
569875	8	41	0.145	60	0.265	0.29	85	0.654	2.3	50	55
569878	8	41	0.145	60	0.265	0.29	84	0.654	2.3	50	55
592859	8	41	0.145	60	0.265	0.29	84	0.654	2.3	50	55
571583	6	65	0.186	60	0.306	0.322	118	0.419	2.6	65	75
569860	6	65	0.186	60	0.306	0.322	118	0.419	2.6	65	75
571447	6	65	0.186	60	0.306	0.322	118	0.419	2.6	65	75
571264	6	65	0.186	60	0.306	0.322	118	0.419	2.6	65	75
569858	6	65	0.186	60	0.306	0.322	119	0.419	2.6	65	75
571266	6	65	0.186	60	0.306	0.322	118	0.419	2.6	65	75
577724	6	65	0.186	60	0.306	0.322	118	0.419	2.6	65	75
569859	6	65	0.186	60	0.306	0.322	118	0.419	2.6	65	75
569819	4	126	0.235	60	0.355	0.396	199	0.263	3.2	85	95

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Stock Number	Cond. Size	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Diameter Over Insulation	Approx. OD	Approx. Weight	DC Resistance @ 25°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
569821	4	126	0.235	60	0.355	0.396	199	0.263	3.2	85	95
569818	4	126	0.235	60	0.355	0.396	199	0.263	3.2	85	95
571286	4	126	0.235	60	0.355	0.396	199	0.263	3.2	85	95
569817	4	126	0.235	60	0.355	0.396	200	0.263	3.2	85	95
569823	4	126	0.235	60	0.355	0.396	199	0.263	3.2	85	95
571529	4	126	0.235	60	0.355	0.396	199	0.263	3.2	85	95
569820	4	126	0.235	60	0.355	0.396	199	0.263	3.2	85	95
569745	2	168	0.291	60	0.411	0.451	254	0.166	3.6	115	130
569748	2	168	0.291	60	0.411	0.451	254	0.166	3.6	115	130
569750	2	168	0.291	60	0.411	0.451	254	0.166	3.6	115	130
569754	2	168	0.291	60	0.411	0.451	254	0.166	3.6	115	130
569753	2	168	0.291	60	0.411	0.451	255	0.166	3.6	115	130
569755	2	168	0.291	60	0.411	0.451	254	0.166	3.6	115	130
569751	2	168	0.291	60	0.411	0.451	254	0.166	3.6	115	130
569752	2	168	0.291	60	0.411	0.451	254	0.166	3.6	115	130
569660	1/0	266	0.379	80	0.539	0.57	428	0.105	4.6	150	170
571449	1/0	266	0.379	80	0.539	0.57	428	0.105	4.6	150	170
571493	1/0	266	0.379	80	0.539	0.57	428	0.105	4.6	150	170
569662	1/0	266	0.379	80	0.539	0.57	428	0.105	4.6	150	170
569659	1/0	266	0.379	80	0.539	0.57	430	0.105	4.6	150	170
569663	1/0	266	0.379	80	0.539	0.57	428	0.105	4.6	150	170
571418	1/0	266	0.379	80	0.539	0.57	428	0.105	4.6	150	170
569661	1/0	266	0.379	80	0.539	0.57	428	0.105	4.6	150	170
569772	2/0	342	0.4	80	0.56	0.633	542	0.084	5.1	175	195
569774	2/0	342	0.4	80	0.56	0.633	542	0.084	5.1	175	195
571495	2/0	342	0.4	80	0.56	0.633	542	0.084	5.1	175	195
571494	2/0	342	0.4	80	0.56	0.633	542	0.084	5.1	175	195
569770	2/0	342	0.4	80	0.56	0.633	544	0.084	5.1	175	195
577849	2/0	342	0.4	80	0.56	0.633	542	0.084	5.1	175	195
569771	2/0	342	0.4	80	0.56	0.633	542	0.084	5.1	175	195
569773	2/0	342	0.4	80	0.56	0.633	542	0.084	5.1	175	195
569839	4/0	532	0.53	80	0.69	0.738	779	0.053	5.9	230	260
569841	4/0	532	0.53	80	0.69	0.738	779	0.053	5.9	230	260
571284	4/0	532	0.53	80	0.69	0.738	780	0.053	5.9	230	260
571283	4/0	532	0.53	80	0.69	0.738	780	0.053	5.9	230	260
571285	4/0	532	0.53	80	0.69	0.738	782	0.053	5.9	230	260
571496	4/0	532	0.53	80	0.69	0.738	779	0.053	5.9	230	260
569838	4/0	532	0.53	80	0.69	0.738	780	0.053	5.9	230	260
569840	4/0	532	0.53	80	0.69	0.738	779	0.053	5.9	230	260
569801	350	888	0.67	95	0.86	0.97	1268	0.032	7.8	310	350
569803	350	888	0.67	95	0.86	0.97	1268	0.032	7.8	310	350

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Stock Number	Cond. Size	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Diameter Over Insulation	Approx. OD	Approx. Weight	DC Resistance @ 25°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
569799	350	888	0.67	95	0.86	0.97	1268	0.032	7.8	310	350
569804	350	888	0.67	95	0.86	0.97	1269	0.032	7.8	310	350
569797	350	888	0.67	95	0.86	0.97	1273	0.032	7.8	310	350
569805	350	888	0.67	95	0.86	0.97	1269	0.032	7.8	310	350
569800	350	888	0.67	95	0.86	0.97	1268	0.032	7.8	310	350
569802	350	888	0.67	95	0.86	0.97	1269	0.032	7.8	310	350
569627	500	1221	0.858	95	1.048	1.1	1738	0.022	8.8	380	430
583707	500	1221	0.858	95	1.048	1.1	1738	0.022	8.8	380	430
569626	500	1221	0.858	95	1.048	1.1	1738	0.022	8.8	380	430
569628	500	1221	0.858	95	1.048	1.1	1738	0.022	8.8	380	430
571498	500	1221	0.858	95	1.048	1.1	1743	0.022	8.8	380	430
579168	500	1221	0.858	95	1.048	1.1	1736	0.022	8.8	380	430
580481	500	1221	0.858	95	1.048	1.1	1736	0.022	8.8	380	430
578787	500	1221	0.858	95	1.048	1.1	1736	0.022	8.8	380	430
569607	750	1850	1.094	110	1.314	1.336	2717	0.015	10.7	475	535
569609	750	1850	1.094	110	1.314	1.336	2717	0.015	10.7	475	535
569605	750	1850	1.094	110	1.314	1.336	2717	0.015	10.7	475	535
569610	750	1850	1.094	110	1.314	1.336	2717	0.015	10.7	475	535
569603	750	1850	1.094	110	1.314	1.336	2725	0.015	10.7	475	535
571735	750	1850	1.094	110	1.314	1.336	2717	0.015	10.7	475	535
569606	750	1850	1.094	110	1.314	1.336	2717	0.015	10.7	475	535
576226	750	1850	1.094	110	1.314	1.336	2717	0.015	10.7	475	535

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

***** Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.

***** Inductive Reactance is based on non-ferrous conduit with one diameter spacing.

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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Stock Numbers and Colors

Size (All Items are Not Braided)	Gray	Green	Blue	Red
14	64884701	59286201	58868201	58868001
12	64884601	59286101	58867901	58867801
10	64446301	59286001	58868601	58867701
8	56987601	57178401	57833301	56987701
6	57158301	56986001	57144701	57126401
4	56981901	56982101	56981801	57128601
2	56974501	56974801	56975001	56975401
1/0	56966001	57144901	57149301	56966201
2/0	56977201	56977401	57149501	57149401
4/0	56983901	56984101	57128401	57128301
350	56980101	56980301	56979901	56980401
500	56962701	58370701	56962601	56962801
750	56960701	56960901	56960501	56961001

Stock Numbers and Colors

Size (All Items are Not Braided)	Black	Red - Black Stripe	Blue - Black Stripe	Gray - Black Stripe
14	58868501	58904201	58904001	
12	59532301	58904101	58904301	64931701
10	58867601	59268301	59268401	64931601
8	56987501	56987801	59285901	
6	56985801	57126601	57772401	56985901
4	56981701	56982301	57152901	56982001
2	56975301	56975501	56975101	56975201
1/0	56965901	56966301	57141801	56966101
2/0	56977001	57784901	56977101	56977301
4/0	57128501	57149601	56983801	56984001
350	56979701	56980501	56980001	56980201
500	57149801	57916801	58048101	57878701
750	56960301	57173501	56960601	57622601

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