15kV AL 100% TRXLPE Full Neutral LLDPE Patented POWERGLIDE® MV CABLE (PATENT: www.patentsw.com)

Single Conductor, 175 Mils Tree Retardant Cross Linked Polyethylene, 100% Insulation Level, Full Concentric Neutral, Linear Low Density Polyethylene (LLDPE) Jacket. Silicone Free



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed Aluminum ASTM 1350 ¾ hard H16/H26; Conductor moisture block (optional)
2. **Conductor Shield:** Conventional Semi-conducting cross-linked copolymer; Supersmooth conductor shield optional; A conductor tape is used for cable size larger than or equal to 1500 Kcmil
3. **Insulation:** 175 Mils Tree Retardant Cross Linked Polyethylene 100% insulation level
4. **Insulation Shield:** Strippable semi-conducting cross-linked copolymer
5. **Concentric Neutral:** Helically applied soft drawn bare copper full concentric neutral
6. **Overall Jacket:** Linear Low Density Polyethylene (LLDPE) Jacket with PowerGlide® Technology. Black with red extruded stripes

For information about our Cable Rejuvenation Services please visit us at: Cable-Rejuvenation Services
You can email us at: Cable-Rejuvenation Services

APPLICATIONS AND FEATURES:

Southwire's 15kV cables are suited for use in wet and dry areas, conduits, ducts, direct burial, sunlight, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation. 130°C for emergency overload, and 250°C for short circuit conditions. (LLDPE) jacket made with PowerGlide® Technology and has a coefficient of friction COF of 0.2. Cable can be installed in conduit without the aid of lubrication. Rated for 1000 lbs./FT maximum sidewall pressure.

SPECIFICATIONS:

- ASTM B231 Standard Specification for Concentric-Lay-Stranded Aluminum 1350 Conductors
- ASTM B609 Standard Specification for Aluminum 1350 Round Wire, Annealed and Intermediate Tempers, for Electrical Purposes
- ICEA S-94-649 Standard for Concentric Neutral Cables Rated 5 - 46kV
- AEIC CS-8 Specification for extruded dielectric shielded power cables rated for 5 through 46KV (Qualification Test Requirements)
- Rural Utility Standard RUS 1728F-U1 or 1728.204 (Electric standards and specifications for materials and construction)
- UL 1072 Listed as MV 90 When Specified
- Optional CSA 68.5: -40ºC and MV 90ºC optional marking available upon request

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SAMPLE PRINT LEGEND:

SOUTHWIRE HI-DRI(R) With POWERGLIDE(R) [CONDUCTOR SIZE] [AWG or KCMIL] AL 15000 VOLTS TRXLPE INSULATION 175 MILS -- (NESC) -- SOUTHWIRE {MMM} {YYYY} NON-CONDUCTING JACKET

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Diameter Over Conductor	Diameter Over Insulation	Insul. Thickness	Diameter Over Insulation Shield	Concentric Neutral	Neutral DC Resistance 25°C	Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension
	AWG/ Kcmil	inch	inch	mil	inch	No. x AWG	Ω /1000ft	mil	inch	lb / 1000ft	inch	lb
TBA	2 (SOLID)	0.258	0.646	175	0.746	10x14	0.324	50	0.974	494	6.8	398
TBA	2 (7)	0.283	0.671	175	0.771	10x14	0.324	50	0.999	507	7	398
TBA	1 (SOLID)	0.289	0.677	175	0.777	13x14	0.249	50	1.005	566	7	502
TBA	1 (19)	0.322	0.71	175	0.81	13x14	0.249	50	1.038	583	7.3	502
611775	1/0 (1)	0.325	0.705	175	0.795	16x14	0.203	50	1.023	598	7.2	633
626710	1/0 (19)	0.352	0.732	175	0.822	16x14	0.203	50	1.05	628	7.4	633
TBA	2/0 (19)	0.395	0.783	175	0.883	20x14	0.162	50	1.111	760	7.8	798
TBA	3/0 (19)	0.443	0.831	175	0.931	25x14	0.13	50	1.159	884	8.1	1006
TBA	4/0 (19)	0.498	0.886	175	0.986	20x12	0.102	50	1.248	1033	8.7	1269
TBA	250 (37)	0.558	0.954	175	1.054	24x12	0.085	50	1.316	1190	9.2	1500
TBA	350 (37)	0.661	1.057	175	1.177	21x10	0.061	50	1.481	1561	10.4	2100

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Pulling tension based on pulling eye directly connected to conductor
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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Table 2 – Electrical and Engineering Data

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Capacitive Reactance @ 60Hz	Inductive Reactance @ 60Hz	Charging Current	Dielectric Loss	Zero Sequence Impedance	Positive Sequence Impedance	Short Circuit Current @ 30 Cycle	Allowable Ampacity in Duct 90°C	Allowable Ampacity Directly Buried 90°C
AWG/ Kcmil	Ω/1000ft	Ω/1000ft	MΩ*1000ft	Ω/1000ft	A/1000ft	W/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
2 (SOLID)	0.162	0.222	0.053	0.052	0.16	1.4	0.487+j0.145	0.224+j0.056	3491	120	150
2 (7)	0.266	0.365	0.05	0.051	0.17	1.5	0.630+j0.146	0.367+j0.057	3491	120	150
1 (SOLID)	0.129	0.177	0.05	0.05	0.17	1.5	0.396+j0.101	0.179+j0.053	4538	140	170
1 (19)	0.211	0.289	0.046	0.049	0.19	1.6	0.508+j0.102	0.291+j0.054	4538	140	170
1/0 (1)	0.102	0.14	0.045	0.048	0.19	1.7	0.325+j0.076	0.143+j0.051	5585	155	195
1/0 (19)	0.167	0.229	0.043	0.047	0.2	1.8	0.414+j0.077	0.232+j0.051	5585	155	195
2/0 (19)	0.133	0.182	0.04	0.045	0.21	1.9	0.334+j0.059	0.186+j0.050	6982	180	220
3/0 (19)	0.105	0.144	0.037	0.044	0.23	2	0.268+j0.046	0.148+j0.048	8727	205	250
4/0 (19)	0.084	0.115	0.034	0.043	0.25	2.2	0.214+j0.037	0.121+j0.046	11082	235	285
250 (37)	0.07	0.096	0.031	0.041	0.28	2.4	0.179+j0.032	0.103+j0.045	13298	254	307
350 (37)	0.051	0.07	0.027	0.04	0.32	2.7	0.130+j0.026	0.079+j0.042	18496	305	365

*Ampacities for Direct Buried are based on ICEA P-117-734-2016 Single-Conductor Solid Dielectric 15-35kV. Single Circuit Flat Direct Buried Figure 3
*Ampacities for Duct are based on ICEA P-117-734-2016 for Single-Conductor Solid Dielectric 15-35kV. Single Circuit Trefoil Conduit Figure 7.
*Sequence Impedance values are based on Rho Earth Resistivity: 100 Ohm-Meter/1000ft, Spacing: one diameter spacing center-to-center.

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Table 3 – Weights and Measurements (Metric)

Stock Number	Cond. Size	Diameter Over Conductor	Diameter Over Insulation	Insul. Thickness	Diameter Over Insulation Shield	Concentric Neutral	Neutral DC Resistance 25°C	Jacket Thickness	Approx. OD	Approx. Weight	Min Bending Radius	Max Pull Tension
	AWG/ Kcmil	mm	mm	mm	mm	No. x AWG	Ω/km	mm	mm	kg/km	mm	newton
TBA	2 (SOLID)	6.55	16.41	4.44	18.95	10x14	1.06	1.27	24.74	735	172.72	1771
TBA	2 (7)	7.19	17.04	4.44	19.58	10x14	1.06	1.27	25.37	754	177.80	1771
TBA	1 (SOLID)	7.34	17.20	4.44	19.74	13x14	0.82	1.27	25.53	842	177.80	2234
TBA	1 (19)	8.18	18.03	4.44	20.57	13x14	0.82	1.27	26.37	868	185.42	2234
611775	1/0 (1)	8.25	17.91	4.44	20.19	16x14	0.67	1.27	25.98	890	182.88	2817
626710	1/0 (19)	8.94	18.59	4.44	20.88	16x14	0.67	1.27	26.67	935	187.96	2817
TBA	2/0 (19)	10.03	19.89	4.44	22.43	20x14	0.53	1.27	28.22	1131	198.12	3551
TBA	3/0 (19)	11.25	21.11	4.44	23.65	25x14	0.43	1.27	29.44	1316	205.74	4477
TBA	4/0 (19)	12.65	22.50	4.44	25.04	20x12	0.33	1.27	31.70	1537	220.98	5647
TBA	250 (37)	14.17	24.23	4.44	26.77	24x12	0.28	1.27	33.43	1771	233.68	6675
TBA	350 (37)	16.79	26.85	4.44	29.90	21x10	0.20	1.27	37.62	2323	264.16	9345

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Pulling tension based on pulling eye directly connected to conductor
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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Table 4 – Electrical and Engineering Data (Metric)

Cond. Size	DC Resistance @ 25°C	AC Resistance @ 90°C	Capacitive Reactance @ 60Hz	Inductive Reactance @ 60Hz	Charging Current	Dielectric Loss	Zero Sequence Impedance*	Positive Sequence Impedance*	Short Circuit Current @ 30 Cycle	Allowable Ampacity in Duct 90°C	Allowable Ampacity Directly Buried 90°C
AWG/ Kcmil	Ω/km	Ω/km	MΩ*km	Ω/km	A/km	W/km	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
2 (SOLID)	0.5315	0.73	0.0162	0.1706	0.525	4.5932	0.487+j0.145	0.224+j0.056	3491	120	150
2 (7)	0.8727	1.20	0.0152	0.1673	0.558	4.9213	0.630+j0.146	0.367+j0.057	3491	120	150
1 (SOLID)	0.4232	0.58	0.0152	0.1640	0.558	4.9213	0.396+j0.101	0.179+j0.053	4538	140	170
1 (19)	0.6923	0.95	0.0140	0.1608	0.623	5.2493	0.508+j0.102	0.291+j0.054	4538	140	170
1/0 (1)	0.3346	0.46	0.0137	0.1575	0.623	5.5774	0.325+j0.076	0.143+j0.051	5585	155	195
1/0 (19)	0.5479	0.75	0.0131	0.1542	0.656	5.9055	0.414+j0.077	0.232+j0.051	5585	155	195
2/0 (19)	0.4364	0.60	0.0122	0.1476	0.689	6.2336	0.334+j0.059	0.186+j0.050	6982	180	220
3/0 (19)	0.3445	0.47	0.0113	0.1444	0.755	6.5617	0.268+j0.046	0.148+j0.048	8727	205	250
4/0 (19)	0.2756	0.38	0.0104	0.1411	0.820	7.2178	0.214+j0.037	0.121+j0.046	11082	235	285
250 (37)	0.2297	0.31	0.0094	0.1345	0.919	7.8740	0.179+j0.032	0.103+j0.045	13298	254	307
350 (37)	0.1673	0.23	0.0082	0.1312	1.050	8.8583	0.130+j0.026	0.079+j0.042	18496	305	365

*Ampacities for Direct Buried are based on ICEA P-117-734-2016 Single-Conductor Solid Dielectric 15-35kV. Single Circuit Flat Direct Buried Figure 3
*Ampacities for Duct are based on ICEA P-117-734-2016 for Single-Conductor Solid Dielectric 15-35kV. Single Circuit Trefoil Conduit Figure 7.
*Sequence Impedance values are based on Rho Earth Resistivity: 100 Ohm-Meter/1000ft, Spacing: one diameter spacing center-to-center.

Concentric Neutral Calculator

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