



EmPowr® Link CL™ ADVANTAGE
Generating Results
through innovation

EmPowr Link CL Advantage

The next evolutionary step in medium-voltage technology for renewable energy collection systems.

- **Enhanced Ruggedized Installation Protection**
- **Reduced Weight and Diameter**
- **Superior XLPE Jacket Technology**
- **Highly Efficient Fault Current Protection**
- **Industry-Leading Reliability and Performance**



COMPACT ROUND CONDUCTOR CLASS B STRAND			INS. DIAMETER (1)		NOM. JACKET THKN. (1)	NEUTRAL CONFIGURATION				NOM. JACKET O.D.	AMPACITY (4)		APPROX. TOTAL WT.	MAXIMUM LENGTH (6)	COND. SIZE
			IN		IN										
AL (AWG or kcmil)	NOM. COND. DIA.	APPROX. AL WT.	MIN. INS. O.D.	MAX. INS. O.D.	LLDPE JACKET	FAULT CURRENT EQUIV. LLDPE CN DESIGN (2)	FLAT STRAP DIMENSIONS	NO. OF STRAPS	APPROX. CU WT. (1)	INCHES	DIRECT BURIED		LBS/KFT	FT	AL (AWG or kcmil)
	IN	LBS/KFT									FLAT (5)	TRE-FOIL			
1/0 SOLID	0.325	97	1.010	1.110	0.055	Full 2/3	25 X 163 25 X 163	9 6	148 99	1.271 1.271	245 245	230 230	721 675	12500	1/0 SOLID
1/0	0.336	99	1.020	1.120	0.055	Full 2/3	25 X 163 25 X 163	9 6	148 99	1.282 1.282	245 245	225 225	737 691	12500	1/0
3/0	0.423	158	1.105	1.205	0.055	Full 2/3 1/3	25 X 163 25 X 163 25 X 163	15 10 6	247 165 99	1.369 1.369 1.369	310 315 315	295 295 295	944 868 808	10000	3/0
4/0	0.475	199	1.160	1.260	0.055	Full 2/3 1/2 1/3	25 X 163 25 X 163 25 X 163 25 X 163	18 12 9 6	297 198 148 99	1.421 1.421 1.421 1.421	350 355 360 365	340 340 340 340	1065 974 929 883	10000	4/0
350	0.616	329	1.310	1.410	0.080	1/2 1/3 1/6	25 X 163 25 X 163 25 X 163	15 10 6	247 165 99	1.570 1.570 1.570	450 460 470	440 445 445	1254 1179 1118	8500	350
500	0.736	468	1.430	1.530	0.080	1/2 1/3 1/6	25 X 193 25 X 193 25 X 193	18 12 6	351 234 117	1.740 1.740 1.740	520 535 560	530 535 540	1628 1521 1413	7000	500
750	0.908	703	1.610	1.710	0.080	1/3 1/6	25 X 193 25 X 193	18 9	351 176	1.920 1.920	615 665	660 670	2008 1847	6000	750
1000	1.060	937	1.760	1.865	0.080	1/3 1/6 1/8 (3) 1/12	25 X 193 25 X 193 25 X 193 25 X 193	24 12 10 6	468 234 195 117	2.072 2.072 2.072 2.072	670 730 750 795	755 775 780 785	2468 2254 2218 2146	5000	1000
1250	1.184	1172	1.890	1.995	0.080	1/6 1/8 (3) 1/12	25 X 193 25 X 193 25 X 163	15 13 9	293 254 148	2.204 2.204 2.204	775 795 855	860 865 880	2616 2580 2483	4300	1250
1500	1.299	1406	2.005	2.110	0.080	1/6 1/8 (3) 1/12	25 X 193 25 X 193 25 X 193	18 15 9	351 293 176	2.319 2.319 2.319	805 830 905	925 935 955	3032 2978 2871	4000	1500

(1) Extruded layer thicknesses and insulation and insulation shield diameters are in accordance with ANSI/ICEA S-94-649 for concentric neutral cables rated 5-46 kV and also meet the requirements of the latest revisions of AEIC CS8. Dimensions and weights not designated as minimum or maximum are nominal values and are subject to manufacturing tolerances.

(2) The flat strap neutral (FS) cable designs for the XLPE jacket, when operated at 90°C, are equivalent in fault current carrying capacity (but with reduced cross-sectional area) to concentric neutral cable designs with LLDPE jackets and the indicated concentric neutral designation. For single phase, full neutral applications, a neutral equivalent in cross-sectional area to the LLDPE jacket designs must be used. Three phase designs may use the configurations with reduced cross-sectional area (but equivalent fault current capability) as shown in the table.

(3) Equivalent 1/8 Concentric Neutral minimum size may be desired to allow for field PD testing of long lengths.

(4) Ampacity based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temperature, 20°C earth ambient temperature, 75% load factor and 36" depth of burial. Values are based on one three-phase circuit, one conductor per phase, with neutral wires bonded at each end.

(5) Cables buried in flat horizontal configuration with 7.5" spacing between conductors.

(6) Based on capacity of 96" returnable steel reels.

UL Type MV-105 EmPowr Link CL Advantage is rated MV-105 in accordance with the UL 1072 standard. It should be noted that utilizing a 105°C normal operating conductor temperature will increase cable ampacity rating but will reduce the shield fault capability slightly. If the use plans on operating these cables at 105°C conductor temperature for normal operation and 140°C for emergency overload, please contact engineering for the applicable cable ampacity and shield fault capability ratings. Another important consideration is that the migration of soil moisture away from the cable is more likely at the higher operating conductor temperature and can result in an increase in soil thermal resistivity, resulting in an increase in conductor and soil temperature.