EmPowr® Link Shielded Power Cable 5-46 kV

Aluminum Conductor TRXLPE Insulation Copper Tape Shielded Power Cable

Temperature Rating:

- Normal..... 90°C
- Emergency*..... 130°C
- Short Circuit..... 250°C

**Operation at the emergency overload temperature shall not exceed 1500 hours cumulative during the lifetime of the cable.*

Specifications:

General Cable utility products copper tape shielded power cables meet the latest requirements of CSA C68.5 and CSA C68.10 as applicable for Tree Retardant Cross-linked Polyethylene (TRXLPE) insulated shielded power cable.

Applications:

EmPowr® Link cables are intended for use in dry or wet locations for distribution of three phase medium voltage power. These cables may be installed in ducts or direct buried.

Options:

- UltraPowr® smoother and cleaner semi-conducting conductor shield
- Low strip insulation shield
- Available with EPR insulation
- Available with lead-free EAM insulation
- Available with 5 mil copper tape thickness
- Available with double copper tape construction
- Available in metric (mm^2) conductor sizes
- Combined Duct & Cable
- 3 X 1/C triplex or parallel assembly
- TRXLPE Class III insulation for 105°C/140°C temperature rating
- UL Listed
- AEIC CS8
- 100% pellet inspection

For more information, or information on conductor sizes or voltage ratings not shown in the tables, contact your General Cable sales representative or e-mail infoca@generalcable.com.

ALUMINUM CONDUCTOR COPPER TAPE SHIELDED 5 kV POWER CABLE

COMPACT CONDUCTOR		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	INS.	INS. SHIELD	CU TAPE	PVC JACKET		AL COND.	CU SHIELD	TOTAL	DIRECT BURIED	IN DUCT
2.29 mm (90 mils) NOMINAL TRXLPE INSULATION – 5 kV 100% or 133%											
2	7	12.3	13.8	14.0	17.3	1.7	93	31	341	165	125
1	19	13.1	14.6	14.8	18.1	1.7	117	33	379	190	145
1/0	19	14.0	15.5	15.7	19.0	1.7	147	35	428	215	165
2/0	19	15.0	16.6	16.7	20.0	1.7	186	38	488	245	185
3/0	19	16.2	17.8	17.9	21.2	2.0	235	40	561	280	210
4/0	19	17.6	19.1	19.2	23.3	2.0	296	43	683	320	240
250	37	18.9	20.4	20.6	24.6	2.0	349	46	765	350	275
350	37	21.3	22.9	23.0	27.1	2.0	490	52	959	425	330
500	37	24.4	25.9	26.1	30.1	2.0	697	59	1234	520	405
750	61	29.0	30.5	30.6	34.7	2.0	1047	69	1691	655	510
1000	61	32.8	34.3	34.5	38.6	2.0	1394	78	2125	760	610

ALUMINUM CONDUCTOR COPPER TAPE SHIELDED 15 kV POWER CABLE

COMPACT CONDUCTOR		DIAMETER (4) (mm)				NOM. JACKET THKN. (4) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	INS.	INS. SHIELD	CU TAPE	PVC JACKET		AL COND.	CU SHIELD	TOTAL	DIRECT BURIED	IN DUCT
4.45 mm (175 mils) NOMINAL TRXLPE INSULATION – 15 kV 100%											
2	7	16.6	18.1	18.3	21.6	2.0	93	47	485	165	125
1	19	17.4	18.9	19.1	23.2	2.0	117	49	562	190	145
1/0	19	18.3	19.9	20.0	24.1	2.0	147	51	619	215	165
2/0	19	19.4	20.9	21.1	25.1	2.0	186	54	686	245	185
3/0	19	20.5	22.1	22.3	26.3	2.0	235	57	769	280	210
4/0	19	21.9	23.4	23.6	27.6	2.0	296	60	868	320	240
250	37	23.2	24.7	24.9	29.0	2.0	349	63	959	350	275
350	37	25.7	27.2	27.4	31.4	2.0	490	70	1170	425	330
500	37	28.7	30.2	30.4	34.5	2.0	697	77	1464	520	405
750	61	33.3	34.8	35.0	39.0	2.0	1047	89	1951	655	510
1000	61	37.1	38.7	38.8	42.9	2.0	1394	99	2410	760	610
5.59 mm (220 mils) NOMINAL TRXLPE INSULATION – 15 kV 133%											
2	7	18.9	20.4	20.6	24.7	2.0	93	52	606	165	125
1	19	19.7	21.2	21.4	25.5	2.0	117	54	653	190	145
1/0	19	20.6	22.1	22.3	26.4	2.0	147	57	713	215	165
2/0	19	21.6	23.2	23.3	27.4	2.0	186	59	784	245	185
3/0	19	22.8	24.4	24.5	28.6	2.0	235	62	871	280	210
4/0	19	24.2	25.7	28.9	29.9	2.0	296	66	974	320	240
250	37	25.5	27.0	27.2	31.3	2.0	349	69	1070	350	275
350	37	27.9	29.5	29.6	33.7	2.0	490	76	1288	425	330
500	37	31.0	32.5	32.7	36.7	2.0	697	83	1592	520	405
750	61	35.6	37.1	37.3	41.3	2.0	1047	95	2094	655	510
1000	61	39.4	40.9	41.1	46.7	2.8	1394	105	2700	760	610

(1) For compact stranded constructions, the number of wires may be reduced as follows:
19-Wire Constructions – 18 Wires Minimum
37-Wire Constructions – 35 Wires Minimum
61-Wire Constructions – 58 Wires Minimum

(2) Extruded layer thicknesses are in accordance with CSA C68.10 for Shielded Power Cable for Commercial and Industrial Applications, 5-46 kV.

(3) Ampacities based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temperature, 25°C earth ambient temperature, 75% load factor, and 36" depth of burial. Values based on one three phase circuit, one conductor per phase, in flat adjacent configuration with neutral wires bonded at each end. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Extruded layer thicknesses are in accordance with CSA C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

Dimensions and weights not designated minimum or maximum are nominal values and subject to manufacturing tolerances. In this context, weight means mass.

General Cable

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