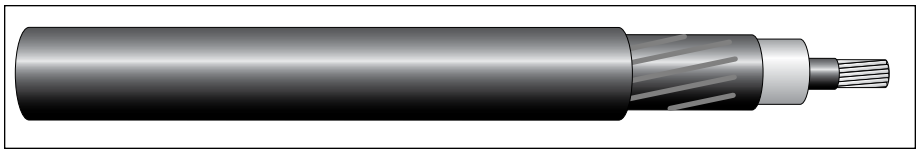
EmPowr® Link Underground Distribution Cable 15-46 kV

Copper Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket



COPPER UNDERGROUND DISTRIBUTION CABLE – 15 kV – TYPE URD – FULL NEUTRAL														
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
4.45 mm (175 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
2	7	16	14	16.6	18.4	21.3	24.1	1.4	305	317	996	240	175
1	19	20	14	17.4	19.2	22.1	24.9	1.4	385	396	1166	275	200
1/0	19	26	14	18.3	20.1	23.1	25.9	1.4	485	515	1398	315	225
2/0	19	20	12	19.4	21.1	24.9	27.7	1.4	612	628	1688	360	255
3/0	19	26	12	20.5	22.3	26.1	28.9	1.4	771	817	2050	410	295
4/0	19	32	12	21.9	23.6	27.5	30.3	1.4	972	1006	2457	465	330

COPPER UNDERGROUND DISTRIBUTION CABLE – 15 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
4.45 mm (175 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
2	7	9	16	16.6	18.4	20.7	23.5	1.4	305	112	790	230	200
1	19	11	16	17.4	19.2	21.5	24.3	1.4	385	137	910	265	225
1/0	19	9	14	18.3	20.1	23.1	25.9	1.4	485	178	1096	300	255
2/0	19	11	14	19.4	21.1	24.1	26.9	1.4	612	218	1286	340	290
3/0	19	14	14	20.5	22.3	25.3	28.1	1.4	771	278	1531	385	325
4/0	19	18	14	21.9	23.6	26.6	29.4	1.4	972	357	1839	435	360
250	37	21	14	23.2	25.0	27.9	30.7	1.4	1149	417	2106	475	385
350	37	18	12	25.7	27.4	31.2	34.0	1.4	1609	566	2808	555	440
500	37	26	12	28.7	31.0	34.8	37.6	1.4	2298	818	3842	635	485
750	61	25	10	33.3	35.6	40.4	44.5	2.0	3447	1250	5666	710	540
1000	61	32	10	37.1	39.4	44.3	48.4	2.0	4596	1601	7257	760	585

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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

Product Construction:

Complete Cable:

Cross-linked semi-conducting conductor shield, insulation and semi-conducting insulation shield are extruded over a solid or stranded aluminum or copper conductor and cured in a single operation. Uncoated copper neutral wires (helically applied) and extruded-to-fill black jacket are applied over the cable core.

Conductor:
Class B concentric lay stranded compact annealed uncoated copper or compact 3/4 to full hard 1350 aluminum (all sizes). The stranded conductors are longitudinally water blocked (STRANDFILL®) and tested in accordance with ICEA T-31-610.

Conductor Shield:
Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:
Extruded, unfilled Tree Retardant Cross-linked Polyethylene (TRXLPE) as defined in CSA C68.5.

Insulation Shield:
Extruded semi-conducting thermosetting layer, clean and free stripping from insulation.

Metallic Shield:
Helically applied, annealed, solid bare copper wires sized in accordance with CSA C68.5.

Jacket:
Black, non-conducting, sunlight-resistant Linear Low-Density Polyethylene (LLDPE) extruded-to-fill spaces between neutral wires. Three extruded red stripes are incorporated into the cable jacket to provide vidual identification of a jacketed power cable.

Features and Benefits:

- CSA C68.5 listed
- 90°C/-40°C (LTGG)
- Triple extruded for clean interfaces
- Dry nitrogen cure for enhanced performance
- Class 10,000 environment utilized for material handling
- Excellent moisture resistance
- High dielectric strength
- Low dielectric loss
- Excellent resistance to treeing
- Clean stripping insulation shield
- Sequential meter marking
- Sunlight-resistant

Certified

General Cable

EmPowr® Link Underground Distribution Cable 15-46 kV

Aluminum Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

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 concentric neutral power cables meet the latest requirements of CSA C68.5 as applicable for Tree Retardant Cross-linked Polyethylene (TRXLPE) insulated concentric neutral power cable.

Applications:

EmPowr® Link cables are intended for use in dry or wet locations for distribution of single or three phase medium voltage power. Cables with a full neutral are designed for use on single phase Underground Distribution (UD) applications. Cables with a 1/3rd neutral are designed for use with three phase UD applications. The Full neutral cable is sometimes referred to as an Underground Residential Distribution (URD) cable. These cables may be installed in ducts or direct buried.

Options:

- Compressed aluminum conductor
- Compressed copper conductor
- BIFILL® blocked conductor and cable core/jacket. Tested in accordance with ICEA T-34-664
- UltraPowr® smoother and cleaner semi-conducting conductor shield
- Low strip insulation shield
- Flat strap concentric neutral
- Semi-conducting thermoplastic jacket
- Overlaying PVC jacket (FT1) with separator tape
- Available with lead-free EAM insulation
- Available with EPR insulation
- Available with metric (mm^2) conductor sizes
- Combined Duct & Cable
- 3 X 1/C triplex or parallel assembly
- AEIC CS8
- CL™ jacket
- 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 UNDERGROUND DISTRIBUTION CABLE – 15 kV – TYPE URD – FULL NEUTRAL

COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
4.45 mm (175 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
2	1	10	14	16.4	18.1	21.1	23.9	1.4	91	198	665	190	130
2	7	10	14	16.6	18.4	21.3	24.1	1.4	93	198	677	190	130
1	1	13	14	17.1	18.9	21.9	24.7	1.4	115	258	762	215	150
1	19	13	14	17.4	19.2	22.1	24.9	1.4	117	258	774	215	150
1/0	1	16	14	18.1	19.8	22.8	25.6	1.4	145	317	870	240	170
1/0	19	16	14	18.3	20.1	23.1	25.9	1.4	147	317	883	240	170
2/0	19	20	14	19.4	21.1	24.1	26.9	1.4	186	397	1020	275	195
3/0	19	16	12	20.5	22.3	26.1	28.9	1.4	235	503	1233	315	220
4/0	19	20	12	21.9	23.6	27.5	30.3	1.4	296	629	1444	360	250

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 15 kV – TYPE UD – 1/3 NEUTRAL

COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
4.45 mm (175 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
2	1	7	16	16.4	18.1	20.4	23.2	1.4	91	87	543	170	130
2	7	7	16	16.6	18.4	20.7	23.5	1.4	93	87	555	170	130
1	1	8	16	17.1	18.9	21.2	24.0	1.4	115	100	598	195	150
1	19	8	16	17.4	19.2	21.5	24.3	1.4	117	100	609	195	150
1/0	1	9	16	18.1	19.8	22.1	24.9	1.4	145	112	662	225	170
1/0	19	9	16	18.3	20.1	22.4	25.2	1.4	147	112	675	225	170
2/0	19	11	16	19.4	21.1	23.4	26.2	1.4	186	137	763	255	200
3/0	19	9	14	20.5	22.3	25.3	28.1	1.4	235	179	906	290	225
4/0	19	11	14	21.9	23.6	26.6	29.4	1.4	296	218	1039	330	255
250	37	14	14	23.2	25.0	27.9	30.7	1.4	349	278	1181	365	280
350	37	18	14	25.7	27.4	30.4	33.2	1.4	490	357	1459	440	340
500	37	25	14	28.7	31.0	33.9	36.7	1.4	697	496	1906	530	420
750	61	24	12	33.3	35.6	39.4	43.4	2.0	1047	755	2755	640	510
1000	61	31	12	37.1	39.4	43.2	47.3	2.0	1394	976	3530	730	595

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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

General Cable

CSA Certified

EmPowr® Link Underground Distribution Cable 15-46 kV

Copper Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

COPPER UNDERGROUND DISTRIBUTION CABLE – 15 kV – TYPE URD – FULL NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
5.59 mm (220 mils) NOMINAL TRXLPE INSULATION – 133% INSULATION LEVEL													
2	7	16	14	18.9	20.7	23.6	26.4	1.4	305	317	1082	240	175
1	19	20	14	19.7	21.5	24.4	27.2	1.4	385	396	1254	275	200
1/0	19	26	14	20.6	22.4	25.3	28.1	1.4	485	516	1489	315	225
2/0	19	20	12	21.6	23.4	27.2	30.0	1.4	612	629	1785	360	255
3/0	19	26	12	22.8	24.6	28.4	31.2	1.4	771	818	2152	410	295
4/0	19	32	12	24.2	25.9	29.7	32.5	1.4	972	1006	2563	465	330

COPPER UNDERGROUND DISTRIBUTION CABLE – 15 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
5.59 mm (220 mils) NOMINAL TRXLPE INSULATION – 133% INSULATION LEVEL													
2	7	9	16	18.9	20.7	23.0	25.8	1.4	305	112	873	230	200
1	19	11	16	19.7	21.5	23.7	26.5	1.4	385	137	996	265	225
1/0	19	9	14	20.6	22.4	25.3	28.1	1.4	485	178	1187	300	255
2/0	19	11	14	21.6	23.4	26.4	29.2	1.4	612	218	1380	340	290
3/0	19	14	14	22.8	24.6	27.6	30.4	1.4	771	278	1629	385	325
4/0	19	18	14	24.2	25.9	28.9	31.7	1.4	972	357	1941	435	360
250	37	21	14	25.5	27.3	30.2	33.0	1.4	1149	417	2213	475	385
350	37	18	12	27.9	30.2	34.0	36.8	1.4	1609	566	2959	555	440
500	37	26	12	31.0	33.3	37.1	39.9	1.4	2298	818	3973	635	485
750	61	25	10	35.6	37.8	42.7	46.8	2.0	3447	1250	5820	710	540
1000	61	32	10	39.4	42.5	47.3	51.4	2.0	4596	1601	7493	760	585

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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EmPowr® Link Underground Distribution Cable 15-46 kV

Aluminum Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 15 kV – TYPE URD – FULL NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
5.59 mm (220 mils) NOMINAL TRXLPE INSULATION – 133% INSULATION LEVEL													
2	1	10	14	18.6	20.4	23.4	26.2	1.4	91	198	750	190	130
2	7	10	14	18.9	20.7	23.6	26.4	1.4	93	198	763	190	130
1	1	13	14	19.4	21.2	24.2	26.9	1.4	115	258	850	215	150
1	19	13	14	19.7	21.5	24.4	27.2	1.4	117	258	862	215	150
1/0	1	16	14	20.3	22.1	25.1	27.9	1.4	145	317	960	240	170
1/0	19	16	14	20.6	22.4	25.3	28.1	1.4	147	317	974	240	170
2/0	19	20	14	21.6	23.4	26.4	29.2	1.4	186	397	1114	275	195
3/0	19	16	12	22.8	24.6	28.4	31.2	1.4	235	503	1334	315	220
4/0	19	20	12	24.2	25.9	29.7	32.5	1.4	296	629	1549	360	250

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 15 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
5.59 mm (220 mils) NOMINAL TRXLPE INSULATION – 133% INSULATION LEVEL													
2	1	8	16	18.6	20.4	22.7	25.5	1.4	91	100	637	170	130
2	7	8	16	18.9	20.7	23.0	25.8	1.4	93	100	650	170	130
1	1	9	16	19.4	21.2	23.5	26.3	1.4	115	112	694	195	150
1	19	9	16	19.7	21.5	23.7	26.5	1.4	117	112	706	195	150
1/0	1	9	16	20.3	22.1	24.4	27.2	1.4	145	112	750	225	170
1/0	19	9	16	20.6	22.4	24.7	27.5	1.4	147	112	764	225	170
2/0	19	11	16	21.6	23.4	25.7	28.5	1.4	186	137	855	255	200
3/0	19	9	14	22.8	24.6	27.6	30.4	1.4	235	179	1005	290	225
4/0	19	11	14	24.2	25.9	28.9	31.7	1.4	296	218	1141	330	255
250	37	14	14	25.5	27.3	30.2	33.0	1.4	349	278	1288	365	280
350	37	18	14	27.9	30.2	33.2	36.0	1.4	490	357	1606	440	340
500	37	25	14	31.0	33.3	36.2	39.0	1.4	697	496	2034	530	420
750	61	24	12	35.6	37.8	41.7	45.7	2.0	1047	756	2905	640	510
1000	61	31	12	39.4	42.5	46.3	50.3	2.0	1394	977	3760	730	595

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

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

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(4) Ampacities 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 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.

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EmPowr® Link Underground Distribution Cable 15-46 kV

Copper Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

COPPER UNDERGROUND DISTRIBUTION CABLE – 25 kV – TYPE URD – FULL NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
6.60 mm (260 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1	19	20	14	21.7	23.5	26.4	29.2	1.4	385	397	1339	275	200
1/0	19	26	14	22.7	24.4	27.4	30.2	1.4	485	516	1577	315	225
2/0	19	20	12	23.7	25.5	29.3	32.1	1.4	612	630	1879	360	255
3/0	19	26	12	24.9	26.6	30.5	33.2	1.4	771	819	2249	410	295
4/0	19	32	12	26.2	28.0	31.8	34.6	1.4	972	1008	2665	465	330

COPPER UNDERGROUND DISTRIBUTION CABLE – 25 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
6.60 mm (260 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1	19	11	16	21.7	23.5	25.8	28.6	1.4	385	137	1079	260	225
1/0	19	9	14	22.7	24.4	27.4	30.2	1.4	485	179	1275	295	255
2/0	19	11	14	23.7	25.5	28.4	31.2	1.4	612	218	1471	335	290
3/0	19	14	14	24.9	26.6	29.6	32.4	1.4	771	278	1723	380	325
4/0	19	18	14	26.2	28.0	30.9	33.7	1.4	972	358	2039	430	360
250	37	21	14	27.5	29.8	32.8	35.6	1.4	1149	417	2347	470	400
350	37	18	12	30.0	32.3	36.1	38.9	1.4	1609	567	3073	555	445
500	37	26	12	33.0	35.3	39.1	43.2	2.0	2298	819	4175	635	495
750	61	25	10	37.6	39.9	44.8	48.8	2.0	3447	1251	5963	715	550
1000	61	32	10	41.5	44.5	49.4	53.4	2.0	4596	1602	7651	765	595

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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

EmPowr® Link Underground Distribution Cable 15-46 kV

Aluminum Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 25 kV – TYPE URD – FULL NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
6.60 mm (260 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1	1	13	14	21.5	23.2	26.2	29.0	1.4	115	258	934	215	150
1	19	13	14	21.7	23.5	26.4	29.2	1.4	117	258	946	215	150
1/0	1	16	14	22.4	24.2	27.1	29.9	1.4	145	318	1047	240	170
1/0	19	16	14	22.7	24.4	27.4	30.2	1.4	147	318	1062	240	170
2/0	19	20	14	23.7	25.5	28.4	31.2	1.4	186	397	1205	275	195
3/0	19	16	12	24.9	26.6	30.5	33.2	1.4	235	504	1431	315	220
4/0	19	20	12	26.2	28.0	31.8	34.6	1.4	296	630	1650	360	250

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 25 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
6.60 mm (260 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1	1	9	16	21.5	23.2	25.5	28.3	1.4	115	112	776	195	150
1	19	9	16	21.7	23.5	25.8	28.6	1.4	117	112	789	195	150
1/0	1	9	16	22.4	24.2	26.4	29.2	1.4	145	112	835	220	170
1/0	19	9	16	22.7	24.4	26.7	29.5	1.4	147	112	849	220	170
2/0	19	11	16	23.7	25.5	27.7	30.5	1.4	186	137	943	250	200
3/0	19	14	16	24.9	26.6	28.9	31.7	1.4	235	175	1065	290	225
4/0	19	11	14	26.2	28.0	30.9	33.7	1.4	296	218	1239	330	255
250	37	14	14	27.5	29.8	32.8	35.6	1.4	349	278	1422	360	280
350	37	18	14	30.0	32.3	35.2	38.0	1.4	490	358	1717	435	340
500	37	25	14	33.0	35.3	38.3	41.0	1.4	697	497	2154	525	420
750	61	24	12	37.6	39.9	43.7	47.8	2.0	1047	756	3045	640	510
1000	61	31	12	41.5	44.5	48.3	52.4	2.0	1394	977	3807	730	595

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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

EmPowr® Link Underground Distribution Cable 15-46 kV

Copper Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

COPPER UNDERGROUND DISTRIBUTION CABLE – 28 kV – TYPE URD – FULL NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
7.11 mm (280 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1	19	20	14	22.7	24.5	27.5	30.3	1.4	385	397	1383	275	200
1/0	19	26	14	23.7	25.5	28.4	31.2	1.4	485	516	1623	315	225
2/0	19	20	12	24.7	26.5	30.3	33.1	1.4	612	630	1927	360	255
3/0	19	26	12	25.9	27.7	31.5	34.3	1.4	771	819	2299	410	295
4/0	19	32	12	27.2	29.5	33.3	36.1	1.4	972	1008	2749	465	330

COPPER UNDERGROUND DISTRIBUTION CABLE – 28 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
7.11 mm (280 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1	19	11	16	22.7	24.5	26.8	29.6	1.4	385	137	1122	260	225
1/0	19	14	16	23.7	25.5	27.7	30.5	1.4	485	175	1288	295	255
2/0	19	11	14	24.7	26.5	29.4	32.2	1.4	612	218	1518	335	290
3/0	19	14	14	25.9	27.7	30.6	33.4	1.4	771	278	1772	380	325
4/0	19	18	14	27.2	29.5	32.4	35.2	1.4	972	358	2122	430	360
250	37	21	14	28.5	30.8	33.8	36.6	1.4	1149	417	2401	470	400
350	37	18	12	31.0	33.3	37.1	39.9	1.4	1609	567	3131	555	445
500	37	26	12	34.0	36.3	40.1	44.2	2.0	2298	819	4240	635	495
750	61	25	10	38.6	40.9	45.8	49.8	2.0	3447	1251	6037	715	550
1000	61	32	10	42.5	45.5	50.4	54.5	2.0	4596	1603	7731	765	595

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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EmPowr® Link Underground Distribution Cable 15-46 kV

Aluminum Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 28 kV – TYPE URD – FULL NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
7.11 mm (280 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1	1	13	14	22.5	24.3	27.2	30.0	1.4	115	258	978	215	150
1	19	13	14	22.7	24.5	27.5	30.3	1.4	117	258	991	215	150
1/0	1	16	14	23.4	25.2	28.1	30.9	1.4	145	318	1092	240	170
1/0	19	16	14	23.7	25.5	28.4	31.2	1.4	147	318	1108	240	170
2/0	19	20	14	24.7	26.5	29.4	32.2	1.4	186	397	1253	275	195
3/0	19	16	12	25.9	27.7	31.5	34.3	1.4	235	504	1481	315	220
4/0	19	20	12	27.2	29.5	33.3	36.1	1.4	296	630	1735	360	250

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 28 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
7.11 mm (280 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1	1	10	16	22.5	24.3	26.5	29.3	1.4	115	125	830	195	150
1	19	10	16	22.7	24.5	26.8	29.6	1.4	117	125	843	195	150
1/0	1	10	16	23.4	25.2	27.5	30.3	1.4	145	125	890	220	170
1/0	19	10	16	23.7	25.5	27.7	30.5	1.4	147	125	906	220	170
2/0	19	11	16	24.7	26.5	28.8	31.5	1.4	186	137	990	250	200
3/0	19	14	16	25.9	27.7	29.9	32.7	1.4	235	175	1113	290	225
4/0	19	11	14	27.2	29.5	32.4	35.2	1.4	296	218	1322	330	255
250	37	14	14	28.5	30.8	33.8	36.6	1.4	349	278	1476	360	280
350	37	18	14	31.0	33.3	36.2	39.0	1.4	490	358	1775	435	340
500	37	25	14	34.0	36.3	39.3	43.3	2.0	697	497	2295	525	420
750	61	24	12	38.6	40.9	44.7	48.8	2.0	1047	756	3117	640	510
1000	61	31	12	42.5	45.5	49.3	53.4	2.0	1394	977	3886	730	595

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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

EmPowr® Link Underground Distribution Cable 15-46 kV

Copper Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

COPPER UNDERGROUND DISTRIBUTION CABLE – 35 kV – TYPE URD – FULL NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
8.76 mm (345 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1/0	19	26	14	27.0	29.3	32.2	35.0	1.4	485	516	1814	315	225
2/0	19	20	12	28.0	30.3	34.1	36.9	1.4	612	630	2129	360	255
3/0	19	26	12	29.2	31.5	35.3	38.1	1.4	771	819	2508	410	295
4/0	19	32	12	30.5	32.8	36.6	39.4	1.4	972	1008	2933	465	330

COPPER UNDERGROUND DISTRIBUTION CABLE – 35 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		CU COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
8.76 mm (345 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1/0	19	14	16	27.0	29.3	31.5	34.3	1.4	485	175	1475	295	255
2/0	19	11	14	28.0	30.3	33.2	36.0	1.4	612	219	1714	335	290
3/0	19	14	14	29.2	31.5	34.4	37.2	1.4	771	278	1976	380	325
4/0	19	18	14	30.5	32.8	35.7	38.5	1.4	972	358	2301	430	360
250	37	21	14	31.9	34.1	37.1	39.9	1.4	1149	417	2586	470	400
350	37	18	12	34.3	36.6	40.4	44.5	2.0	1609	567	3414	555	445
500	37	26	12	37.3	39.6	43.4	47.5	2.0	2298	819	4462	635	495
750	61	25	10	41.9	45.0	49.8	53.9	2.0	3447	1252	6359	715	550
1000	61	32	10	45.8	48.8	53.7	57.8	2.0	4596	1603	8004	765	595

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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EmPowr® Link Underground Distribution Cable 15-46 kV

Aluminum Conductor TRXLPE Insulation Concentric Neutral LLDPE Jacket

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 35 kV – TYPE URD – FULL NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (3)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
8.76 mm (345 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1/0	1	16	14	26.7	29.0	31.9	34.7	1.4	145	318	1281	240	170
1/0	19	16	14	27.0	29.3	32.2	35.0	1.4	147	318	1298	240	170
2/0	19	20	14	28.0	30.3	33.2	36.0	1.4	186	397	1449	275	195
3/0	19	16	12	29.2	31.5	35.3	38.1	1.4	235	504	1689	315	220
4/0	19	20	12	30.5	32.8	36.6	39.4	1.4	296	630	1918	360	250

ALUMINUM UNDERGROUND DISTRIBUTION CABLE – 35 kV – TYPE UD – 1/3 NEUTRAL													
COMPACT CONDUCTOR		COPPER NEUTRAL		DIAMETER (2) (mm)				NOM. JACKET THKN. (2) (mm)	APPROX. WEIGHT (kg/km)			AMPACITY (4)	
SIZE (AWG OR kcmil)	NO. OF WIRES (1)	NO. OF WIRES	WIRE SIZE (AWG)	INS.	INS. SHIELD	NEUT. WIRES	ENCAP LLDPE JACKET		AL COND.	CU NEUT. WIRES	TOTAL	DIRECT BURIED	IN DUCT
8.76 mm (345 mils) NOMINAL TRXLPE INSULATION – 100% INSULATION LEVEL													
1/0	1	11	16	26.7	29.0	31.3	34.1	1.4	145	137	1087	220	170
1/0	19	11	16	27.0	29.3	31.5	34.3	1.4	147	137	1104	220	170
2/0	19	12	16	28.0	30.3	32.6	35.4	1.4	186	150	1194	250	200
3/0	19	14	16	29.2	31.5	33.8	36.6	1.4	235	175	1312	290	225
4/0	19	17	16	30.5	32.8	35.1	37.9	1.4	296	212	1459	330	255
250	37	21	16	31.9	34.1	36.4	39.2	1.4	349	262	1610	360	280
350	37	18	14	34.3	36.6	39.5	43.6	2.0	490	358	2052	435	340
500	37	25	14	37.3	39.6	42.6	46.6	2.0	697	497	2513	525	420
750	61	24	12	41.9	45.0	48.8	52.8	2.0	1047	757	3432	640	510
1000	61	31	12	45.8	48.8	52.6	56.7	2.0	1394	977	4154	730	595

(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 C68.5 for Primary Shielded and Concentric Neutral Cable for Distribution Utilities.

(3) Ampacities 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 based on single phase operation, with full current return in the neutral wires. Ducts sized for 40% fill. For specific ampacities, contact your General Cable sales representative.

(4) Ampacities 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 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.

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