

EmPow™ Link Shielded Power Cable 5-46 kV

Cu Conductor TRXLPE Insulation Drain Wire Shielded Power Cable



COPPER CONDUCTOR COPPER WIRE SHIELDED 5kV POWER CABLE

CONDUCTOR		WIRE SHIELD		APPROXIMATE Ø Ø (in)				NOMINAL JACKET THICKNESS (in)	APPROXIMATE WEIGHT (lb/ft)			CAPACITY (kV)	
Ø (in)	NO. OF WIRES	NO. OF WIRES	WIRE Ø (in)	INSUL.	INSUL. SHIELD	WIRE SHIELD	PVC JACKET		Ø (in)	Ø (in)	TOTAL	DRY BUNDLED	IN BUCKET

2.29 mm 90 mils NOMINAL TROXLPE INSULATION - 5 kV 100% DR 133%

2	7	7	22	12.8	14.8	15.5	15.2	1.5	305	21	588	220	170
1	18	7	22	13.8	15.4	16.7	20.1	1.3	385	21	680	250	210
1/2	18	7	22	14.5	16.2	17.8	21.2	1.3	485	21	804	280	240
3/8	18	8	22	15.5	17.2	18.8	22.8	1.3	612	24	980	315	270
3/8	18	8	22	16.8	18.8	19.9	24.2	2.0	771	24	1198	355	310
4/8	18	9	22	18.1	19.8	21.1	25.8	2.0	970	27	1420	395	345
250	36	10	22	19.5	21.2	22.8	27.8	2.0	1140	38	1622	440	385
350	36	11	22	22.8	23.8	25.1	29.9	2.0	1600	33	2158	520	420
500	37	12	22	25.2	26.8	28.1	32.5	2.0	2298	38	2918	600	500
750	61 *	14	22	28.9	32.2	34.5	38.0	2.0	3447	42	4242	890	570
1000	61 *	16	22	29.2	37.5	38.8	43.2	2.0	4098	48	5078	875	685

COPPER CONDUCTOR COPPER WIRE SHIELDED 10kV POWER CABLE

CONDUCTOR		WIRE SHIELD		APPROXIMATE Ø Ø (in)				NOMINAL JACKET THICKNESS (in)	APPROXIMATE WEIGHT (lb/ft)			CAPACITY (kV)	
Ø (in)	NO. OF WIRES	NO. OF WIRES	WIRE Ø (in)	INSUL.	INSUL. SHIELD	WIRE SHIELD	PVC JACKET		Ø (in)	Ø (in)	TOTAL	DRY BUNDLED	IN BUCKET

4.45 mm 175 mils NOMINAL TROXLPE INSULATION - 10kV 100% LEVEL

2	7	8	22	13.8	16.7	20.0	24.5	2.0	390	24	767	220	170
1	18	9	22	17.8	19.5	20.8	25.2	2.0	385	27	878	250	210
1/2	18	9	22	18.7	20.5	21.8	26.2	2.0	485	27	1005	280	240
3/8	18	10	22	19.7	21.5	22.8	27.2	2.0	612	30	1180	315	270
3/8	18	10	22	21.8	22.7	24.0	28.5	2.0	771	30	1362	355	310
4/8	18	11	22	22.2	24.0	25.2	29.7	2.0	970	33	1608	395	345
250	36	11	22	23.7	25.5	26.7	31.2	2.0	1140	33	1818	440	385
350	36	12	22	26.2	28.4	29.7	34.2	2.0	1600	38	2382	520	420
500	37	14	22	29.2	31.4	32.7	37.2	2.0	2298	42	3180	600	500
750	61 *	16	22	29.1	37.4	38.7	43.1	2.0	3447	48	4408	690	570
1000	61 *	18	22	29.4	42.4	43.7	48.7	2.0	4098	55	5274	875	685

5.50 mm 220 MILS NOMINAL TROXLPE INSULATION - 15 kV 133% LEVEL

2	7	9	22	15.2	21.9	22.9	28.8	2.0	395	27	863	220	170
1	18	10	22	20.8	21.8	22.1	27.5	2.0	385	30	968	250	210
1/2	18	10	22	21.8	22.8	24.9	28.9	2.0	485	30	1102	280	240
3/8	18	11	22	22.8	23.8	25.1	29.5	2.0	612	33	1285	315	270
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350	36	13	22	28.4	30.7	32.8	36.5	2.0	1600	39	2501	520	420
500	37	15	22	31.4	32.7	34.9	39.5	2.0	2298	45	3297	600	500
750	61 *	17	22	27.4	38.7	40.9	46.9	2.0	3447	51	4851	690	570
1000	61 *	19	22	40.7	44.7	46.9	52.9	2.0	4098	58	6760	875	685

Product Construction:

Complete Cable:

Crosslinked 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. An uncoated copper wire shield (helicically applied), polyester separator tape and extruded black PVC jacket are applied over the cable core.

Conductor:

When copper conductors are supplied, they are annealed, uncoated concentric stranded. Sizes #4 AWG to 500 kcmil are compact stranded. Sizes 600 kcmil to 1000 kcmil are compressed stranded. When aluminum conductors are supplied, they are 1330 Aluminum concentric stranded. Sizes #4 AWG to 1000 kcmil are compact stranded.

Conductor Shield:

Extruded semi-conducting thermosetting polymeric stress control layer.

Insulation:

Extruded, unfilled Free Retardant Crosslinked Polyethylene (TROXLPE) as defined in ANSI/ICEA S-94-940.

Insulation Shield:

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

Metallic Shield:

Helicically applied annealed solid bare copper wires with a lagged non-metallic tape serving as a binder/separator.

Jacket:

Black, non-conducting, FTS, low temperature PVC.

- * 750 and 1000 kcmil are compressed conductor constructions
 (1) Extruded layer thicknesses are in accordance with CSA C82.3 for Shielded Power Cables Rated 5-46kV Dimensions and weights are nominal, subject to manufacturing tolerances.
 (2) Capacities based on IEEE 835 for three phase, shielded power cables, with drain wire shields bonded at both ends, @ 100% load factor, 25°C earth ambient, 90°C conductor temperature, self rate of 187.5-cm/whr, 175 horizontal spacing, configuration B or D (flat configuration), one isolated circuit bonded W' deep.

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**Thirumalaisamy P.
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