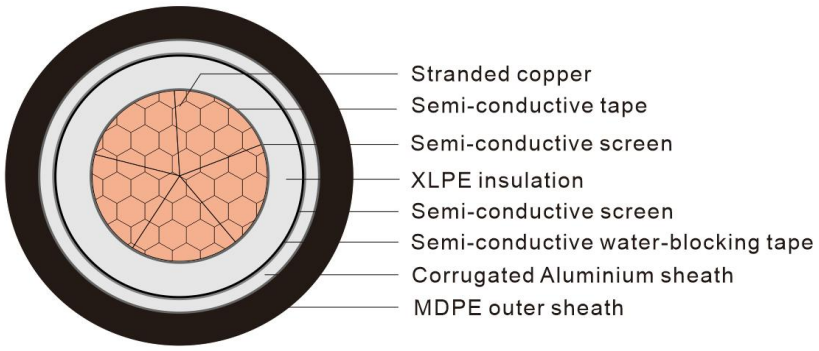
High voltage/Extra high voltage XLPE insulated power cable 38/66 kV-290/500 kV

CU(AL)/XLPE/CAS/MDPE
N2XS(F)2Y/N2XS(FL)2Y, NA2XS(F)2Y/NA2XS2Y, YJLW03-Z/YJLW03-Z

This high-voltage(HV)/extra high voltage(EHV) cable is designed for use in distribution networks, as well as for connections to generation units and various industrial processes. Suitable for installation in ground, underwater, outdoors, indoors, and in cable ducts, it meets the demanding requirements of power stations, industrial facilities, and distribution systems. Corrugated aluminium sheath provides robust radial waterproofing and serves as an effective metallic shield. Lead sheath, which is also available, ensures a complete and hermetic seal, delivering superior corrosion resistance and long-term impermeability



Standards

IEC 60840 or other standards on request

Construction

Conductor	Copper or Aluminum
Wrapping	Semi-conductive tape
Conductor screen	Semi-conductive compound
Insulation	Cross-linked polyethylene (XLPE)
Insulation screen	Semi-conductive compound
Wrapping	Semi-conductive water-blocking tape
Metallic sheath	Corrugated aluminium sheath
Outer sheath	MDPE/PVC

Data sheet

High voltage/Extra high voltage XLPE insulated power cable 38/66 kV-290/500 kV

High voltage/Extra high voltage XLPE insulated power cable 38/66 kV-290/500 kV

Nom. cross-sectional area of conductor	Dia. of conductor	Insulation thickness	Alumnium sheath thickness	Outer sheath thickness	Overall diameter	Approx. weight
mm^2	mm	mm	mm	mm	mm	kg/km
38/66kV						
1×95	10.6	13.0	2.0	4.0	71	4116
1×120	12.0	13.0	2.0	4.0	72	4454
1×150	13.4	12.0	2.0	4.0	72	4593
1×185	15.1	12.0	2.0	4.0	73	5046
1×240	18.6	12.0	2.0	4.0	76	5724
1×300	20.8	11.0	2.0	4.0	76	6205
1×400	23.4	11.0	2.0	4.0	79	7120
1×500	26.3	11.0	2.0	4.0	82	8300
1×630	30.0	11.0	2.0	4.5	86	9939
1×800	34.1	10.0	2.0	4.5	88	11559
1×1000	38.9	10.0	2.3	4.5	95	14216
1×1200	42	10.0	2.3	5.0	100	16103
1×1400	45.5	10.0	2.3	5.0	104	18144
1×1600	48.6	10.0	2.3	5.0	107	20123
1×1800	51.4	10.0	2.3	5.0	110	21981
1×2000	54.4	10.0	2.3	5.0	114	24149
64/110kV						
1×240	18.6	19.0	2.0	4.0	88	8030
1×300	20.8	18.5	2.0	4.0	89	8670
1×400	23.4	17.5	2.0	4.0	90	9400
1×500	26.3	17.0	2.0	4.0	92	10520
1×630	30.0	16.5	2.0	4.5	96	12190
1×800	34.1	16.0	2.0	4.5	100	14070
1×1000	38.9	16.0	2.3	4.5	107	17090
1×1200	42.0	16.0	2.3	5.0	111	19150
1×1400	45.5	16.0	2.3	5.0	115	21370
1×1600	48.6	16.0	2.3	5.0	119	23500
1×1800	51.4	16.0	2.4	5.0	122	25630
1×2000	54.4	16.0	2.5	5.0	126	28050
1×2500	60.4	16.0	2.6	5.0	133	33340
76/132kV						
1×240	18.6	18.0	1.9	4.0	94	8630
1×300	20.8	18.0	1.9	4.0	95	9300
1×400	23.4	18.0	2.0	4.0	96	10040
1×500	26.3	18.0	2.0	4.0	98	11210

Nom. cross-sectional area of conductor	Dia. of conductor	Insulation thickness	Alumnium sheath thickness	Outer sheath thickness	Overall diameter	Approx. weight
mm^2	mm	mm	mm	mm	mm	kg/km
1×630	30.0	18.0	2.1	4.5	102	12960
1×800	34.1	18.0	2.2	4.5	108	15420
1×1000	38.9	18.0	2.3	4.5	113	17870
1×1200	42.0	18.0	2.4	5.0	118	20020
1×1400	45.5	18.0	2.5	5.0	122	22340
1×1600	48.6	18.0	2.5	5.0	125	24560
1×1800	51.4	18.0	2.6	5.0	128	26660
1×2000	54.4	18.0	2.6	5.0	132	29050
1×2500	60.4	18.0	2.8	5.0	139	34120
87/150kV						
1×240	18.6	21.0	2.0	4.0	94	10130
1×300	20.8	21.0	2.0	4.0	96	10800
1×400	23.4	21.0	2.1	4.0	99	11540
1×500	26.3	21.0	2.2	4.0	102	12710
1×630	30.0	21.0	2.3	4.5	107	14460
1×800	34.1	20.0	2.4	4.5	110	16920
1×1000	38.9	20.0	2.5	4.5	117	19370
1×1200	42.0	20.0	2.5	5.0	123	21520
1×1400	45.5	20.0	2.6	5.0	125	23840
1×1600	48.6	20.0	2.6	5.0	129	26060
1×1800	51.4	20.0	2.8	5.0	132	28160
1×2000	54.4	20.0	2.9	5.0	135	30550
1×2500	60.4	20.0	2.9	5.0	139	35620
127/220kV						
1×240	18.6	27.0	2.2	5.0	110	11230
1×300	20.8	27.0	2.2	5.0	112	12080
1×400	23.4	27.0	2.4	5.0	116	13400
1×500	26.3	27.0	2.4	5.0	119	14780
1×630	30.0	26.0	2.4	5	121	16210
1×800	34.1	25.0	2.4	5	124	18020
1×1000	38.9	24.0	2.6	5	128	20670
1×1200	42.0	24.0	2.6	5.0	131	22620
1×1400	45.5	24.0	2.6	5.0	135	24940
1×1600	48.6	24.0	2.6	5.0	139	27140
1×1800	51.4	24.0	2.8	5.0	142	29500
1×2000	54.4	24.0	2.9	5.0	145	32020
1×2500	60.4	24.0	3.1	5.0	153	37650
145/275kV						
1×400	23.4	25.0	2.2	5.0	106	12210
1×500	26.3	25.0	2.3	5.0	113	14310

Nom. cross-sectional area of conductor	Dia. of conductor	Insulation thickness	Alumnium sheath thickness	Outer sheath thickness	Overall diameter	Approx. weight
mm^2	mm	mm	mm	mm	mm	kg/km
1×630	30.0	25.0	2.4	5	117	16190
1×800	34.1	25.0	2.5	5	122	18490
1×1000	38.9	25.0	2.6	5	128	21450
1×1200	42.0	25.0	2.7	5.0	132	23510
1×1400	45.5	25.0	2.7	5.0	136	25940
1×1600	48.6	25.0	2.8	5.0	139	28260
1×1800	51.4	25.0	2.8	5.0	143	30450
1×2000	54.4	25.0	2.9	5.0	146	32940
1×2500	60.4	25.0	3.0	5.0	153	38500
190/330kV						
1×630	30.0	30.0	2.6	5	129	18660
1×800	34.1	30.0	2.7	5	132	20570
1×1000	38.9	29.0	2.8	5	139	23640
1×1200	42.0	29.0	2.8	5.0	140	25240
1×1400	45.5	28.0	2.9	5.0	144	27720
1×1600	48.6	28.0	2.9	5.0	148	30080
1×1800	51.4	28.0	3.0	5.0	151	32310
1×2000	54.4	28.0	3.0	5.0	154	34840
1×2500	60.4	28.0	3.2	5.0	161	40500
220/380kV						
1×800	34.1	29.0	2.7	6	134	21030
1×1000	38.9	29.0	2.8	6	140	24120
1×1200	42.0	29.0	2.8	6.0	144	26240
1×1400	45.5	29.0	2.9	6.0	148	28750
1×1600	48.6	29.0	3.0	6.0	152	31130
1×1800	51.4	29.0	3.0	6.0	155	33390
1×2000	54.4	29.0	3.1	6.0	158	35940
1×2500	60.4	29.0	3.2	6.0	165	41640
290/500kV						
1×800	34.1	34.0	2.9	6	146	23600
1×1000	38.9	33.0	3.0	6	150	26300
1×1200	42.0	33.0	3.0	6.0	153	28380
1×1400	45.5	32.0	3.0	6.0	155	30350
1×1600	48.6	32.0	3.1	6.0	158	32820
1×1800	51.4	31.0	3.2	6.0	160	34660
1×2000	54.4	31.0	3.2	6.0	163	37150
1×2500	60.4	31.0	3.3	6.0	170	42870

*The information in this data sheet is for reference only and is subject to change without notice or liability.