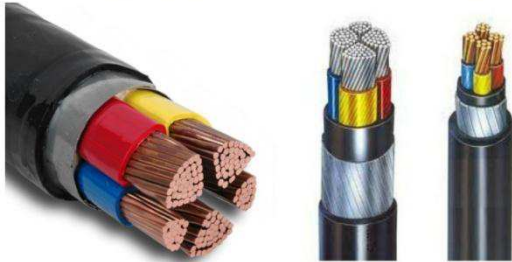
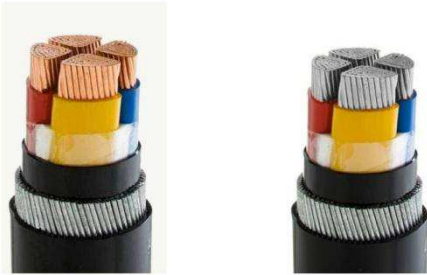




Medium Voltage Al-Cu XLPE Insulated PVC Sheathed Armoured Power Cable

3.6~36KV Medium Voltage Armoured XLPE Power Cable



SPECIFICATIONS AND STANDARDS

1. IEC60502-2 VDE 0276-620 AS/NZS1429.1 ICEA S93-639 ICEA S94-649
2. Rated Voltage: 3.6/6(7.2)kV, 3.8/6.6(7.2)kV, 6/10(12)kV, 6.35/11(12)kV, 8.7/10(15)kV, 8.7/15(17.5)kV, 12/20(22)kV, 12.7/22(24)kV, 12.7/22(24)kV, 18/30(36)kV, 19/33(36)kV
3. Number of cores : Single core, three cores, with round or sector Conductor.

APPLICATIONS

Media Voltage XLPE Insulated power cable is used to transmit and distribute power in power transmission and distribution system of 35kV or lower. It is generally applied to the fields including power, construction, mines, metallurgy, petrochemical industry and communication in complete replace of oil immersed paper insulated power cable.

PROPERTY:

- 1.The highest allowed operating temperature of conductor for long-term working is 90 degrees.
- 2.In short circuit (Max long term is no more than 5 seconds),the highest temperature for conductor is no more than 250 degrees.
- 3.the environmental temperature of operating in air should be no more than 40 degrees, and 25 degrees underground.
- 4.Excellent electrical performance, resistance to chemical corrosion.

CONSTRUCTION

Cable Type (MV XLPE power cable)	Conductor		Insulation XLPE	Screen SCT	Armor				Outer Sheath	
	Aluminum	Copper			SW	ST	DST	AW	PVC	PE
Cu/XLPE/PVC		P	P	P	---	---	---	---	P	
Cu/XLPE/PE		P	P	P	---	---	---	---		P
Al/XLPE/PVC	P		P	P	---	---	---	---	P	
Al/XLPE/PE	P		P	P	---	---	---	---		P
Cu/XLPE/STA/PVC		P	P	P	---	P	---	---	P	
Cu/XLPE/STA/PE		P	P	P	---	P	---	---		P
Al/XLPE/STA/PVC	P		P	P	---	P	---	---	P	
Al/XLPE/STA/PE	P		P	P	---	P	---	---		P



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Cu/XLPE/DSTA/PVC		P	P	P	---	---	P	---	P	
Cu/XLPE/DSTA/PE		P	P	P	---	---	P	---		P
Al/XLPE/DSTA/PVC	P		P	P	---	---	P	---	P	
Al/XLPE/DSTA/PE	P		P	P	---	---	P	---		P
Cu/XLPE/SWA/PVC		P	P	P	P	---	---	---	P	
Cu/XLPE/SWA/PE		P	P	P	P	---	---	---		P
Al/XLPE/SWA/PVC	P		P	P	P	---	---	---	P	
Al/XLPE/SWA/PE	P		P	P	P	---	---	---		P
Cu/XLPE/AWA/PVC		P	P	P	---	---	---	P	P	
Cu/XLPE/AWA/PE		P	P	P	---	---	---	P		P
Al/XLPE/AWA/PVC	P		P	P	---	---	---	P	P	
Al/XLPE/AWA/PE	P		P	P	---	---	---	P		P

Types: screen material SCT= soft copper tape; armor material SW=steel wire, ST=steel tape, DST=double steel tape, AW=aluminum wire.

Technical Parameter of Medium Voltage XLPE Armored Power Cable :

1) 3.6/6(7.2)kV, 3.6/6.6(7.2)kV, Three Cores, Al or Cu/XLPE/CTS/STA or SWA PVC Armoured Power Cable

No.X Nominal Cross Section of Conductor	Nominal Diameter of Conductor	Nominal Thickness of Insulation	Nominal Thickness of Copper Tape Screen	Nominal Thickness of Inner Sheath	Nominal Thickness of Steel Tape Armouring	Nominal Thickness of PVC Sheath	Approx. Overall Diameter	Approx. Weight	
								Al Conductor	Cu Conductor
No. X mm ²	mm	mm	mm	mm	mm	mm	mm	kg/m	kg/m
3 X 25	6.0	2.5	0.1	1.2	0.2	1.9	37.9	1.87	2.32
3 X 35	6.9	2.5	0.1	1.3	0.5	2.0	41.5	2.10	2.73
3 X 50	8.2	2.5	0.1	1.3	0.5	2.0	44.3	2.37	3.22
3 X 70	9.7	2.5	0.1	1.4	0.5	2.1	47.9	2.77	4.00
3 X 95	11.3	2.5	0.1	1.4	0.5	2.2	51.6	3.21	4.91
3 X 120	12.8	2.5	0.1	1.5	0.5	2.4	55.4	3.69	5.84
3 X 150	14.2	2.5	0.1	1.5	0.5	2.5	58.6	4.15	6.85
3 X 185	15.9	2.5	0.1	1.5	0.5	2.6	62.5	4.73	8.11
3 X 240	18.3	2.6	0.1	1.6	0.5	2.7	68.5	5.62	10.05
3 X 300	20.4	2.8	0.1	1.7	0.5	2.9	74.5	6.55	12.11
3 X 400	23.2	3.0	0.1	1.9	0.8	3.2	83.6	8.78	15.86
3 X 500	26.4	3.2	0.1	2.1	0.8	3.4	93.0	10.52	18.85



Medium Voltage Al-Cu XLPE Insulated PVC Sheathed Armoured Power Cable

3.6~36KV Medium Voltage Armoured XLPE Power Cable

2) 6/10(12)kV, 6.35/11(12)kV, Three Cores, Al or Cu/XLPE/CTS/STA or SWA PVC Armoured Power Cable

No.X Nominal Cross Section of Conductor	Nominal Diameter of Conductor	Nominal Thickness of Insulation	Nominal Thickness of Copper Tape Screen	Nominal Thickness of Inner Sheath	Nominal Thickness of Steel Tape Armouring	Nominal Thickness of PVC Sheath	Approx. Overall Diameter	Approx. Weight	
								Al Conductor	Cu Conductor
No. X mm ²	mm	mm	mm	mm	mm	mm	mm	kg/m	kg/m
3 X 25	6.0	3.4	0.1	1.3	0.5	2.0	43.4	2.16	2.61
3 X 35	6.9	3.4	0.1	1.3	0.5	2.0	45.4	2.36	2.99
3 X 50	8.2	3.4	0.1	1.4	0.5	2.2	48.8	2.69	3.54
3 X 70	9.7	3.4	0.1	1.5	0.5	2.3	52.4	3.10	4.33
3 X 95	11.3	3.4	0.1	1.5	0.5	2.4	56.1	3.56	5.26
3 X 120	12.8	3.4	0.1	1.5	0.5	2.5	59.5	4.04	6.19
3 X 150	14.2	3.4	0.1	1.5	0.5	2.6	62.7	4.49	7.19
3 X 185	15.9	3.4	0.1	1.6	0.5	2.6	66.6	5.12	8.49
3 X 240	18.3	3.4	0.1	1.7	0.5	2.8	72.4	5.99	10.42
3 X 300	20.4	3.4	0.1	1.8	0.5	3.0	77.5	6.86	12.42
3 X 400	23.2	3.4	0.1	1.9	0.8	3.2	85.4	8.97	16.05
3 X 500	26.4	3.4	0.1	2.0	0.8	3.4	93.7	10.65	19.50

3) 8.7/10(15)kV, Three Cores, Al or Cu/XLPE/CTS/STA or SWA PVC Armoured Power Cable

No.X Nominal Cross Section of Conductor	Nominal Diameter of Conductor	Nominal Thickness of Insulation	Nominal Thickness of Copper Tape Screen	Nominal Thickness of Inner Sheath	Nominal Thickness of Steel Tape Armouring	Nominal Thickness of PVC Sheath	Approx. Overall Diameter	Approx. Weight	
								Al Conductor	Cu Conductor
No. X mm ²	mm	mm	mm	mm	mm	mm	mm	kg/m	kg/m
3 X 25	6.0	4.5	0.1	1.4	0.5	2.1	48.6	2.53	2.98
3 X 35	6.9	4.5	0.1	1.4	0.5	2.2	50.7	2.76	3.39
3 X 50	8.2	4.5	0.1	1.5	0.5	2.3	53.9	3.10	3.95
3 X 70	9.7	4.5	0.1	1.5	0.5	2.4	57.4	3.51	4.74
3 X 95	11.3	4.5	0.1	1.5	0.5	2.6	61.2	4.05	5.75
3 X 120	12.8	4.5	0.1	1.6	0.5	2.6	64.7	4.56	6.72
3 X 150	14.2	4.5	0.1	1.6	0.5	2.7	67.9	5.04	7.74
3 X 185	15.9	4.5	0.1	1.7	0.5	2.8	71.9	5.66	9.04
3 X 240	18.3	4.5	0.1	1.8	0.5	3.0	77.7	6.56	11.00
3 X 300	20.4	4.5	0.1	1.9	0.8	3.2	84.1	8.39	13.96
3 X 400	23.2	4.5	0.1	2.0	0.8	3.3	90.5	9.71	16.79
3 X 500	26.4	4.5	0.1	2.1	0.8	3.5	98.8	11.45	20.57



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3.6~36KV Medium Voltage Armoured XLPE Power Cable

4) 12/20(24)kV, 12.7/22(24)kV, Three Cores, Al or Cu/XLPE/CTS/STA or SWA PVC Armoured Power Cable

No.X Nominal Cross Section of Conductor	Nominal Diameter of Conductor	Nominal Thickness of Insulation	Nominal Thickness of Copper Tape Screen	Nominal Thickness of Inner Sheath	Nominal Thickness of Steel Tape Armouring	Nominal Thickness of PVC Sheath	Approx. Overall Diameter	Approx. Weight	
								Al Conductor	Cu Conductor
No. X mm ²	mm	mm	mm	mm	mm	mm	mm	kg/m	kg/m
3 X 25	---	---	---	---	---	---	---	---	---
3 X 35	6.9	5.5	0.1	1.5	0.5	2.4	55.6	3.14	3.77
3 X 50	8.2	5.5	0.1	1.5	0.5	2.5	58.6	3.49	4.34
3 X 70	9.7	5.5	0.1	1.5	0.5	2.6	62.1	3.93	5.16
3 X 95	11.3	5.5	0.1	1.6	0.5	2.6	65.7	4.46	6.16
3 X 120	12.8	5.5	0.1	1.7	0.5	2.7	69.4	5.00	7.15
3 X 150	14.2	5.5	0.1	1.7	0.5	2.8	72.6	5.49	8.19
3 X 185	15.9	5.5	0.1	1.8	0.5	3.0	76.9	6.16	9.53
3 X 240	18.3	5.5	0.1	1.9	0.8	3.2	83.9	7.87	12.31
3 X 300	20.4	5.5	0.1	2.0	0.8	3.2	88.6	8.96	14.52
3 X 400	23.2	5.5	0.1	2.1	0.8	3.5	95.4	10.35	17.43
3 X 500	26.4	5.5	0.1	2.2	0.8	3.7	103.7	12.45	20.23

5) 18/30(36)kV, 19/33(36)kV, Three Cores, Al or Cu/XLPE/CTS/STA or SWA PVC Armoured Power Cable

No.X Nominal Cross Section of Conductor	Nominal Diameter of Conductor	Nominal Thickness of Insulation	Nominal Thickness of Copper Tape Screen	Nominal Thickness of Inner Sheath	Nominal Thickness of Steel Tape Armouring	Nominal Thickness of PVC Sheath	Approx. Overall Diameter	Approx. Weight	
								Al Conductor	Cu Conductor
No. X mm ²	mm	mm	mm	mm	mm	mm	mm	kg/m	kg/m
3 X 25	---	---	---	---	---	---	---	---	---
3 X 35	---	---	---	---	---	---	---	---	---
3 X 50	8.2	8.0	0.1	1.7	0.5	2.8	70.4	4.56	5.41
3 X 70	9.7	8.0	0.1	1.7	0.5	2.9	73.9	5.04	6.26
3 X 95	11.3	8.0	0.1	1.8	0.5	3.0	77.7	5.62	7.32
3 X 120	12.8	8.0	0.1	1.9	0.8	3.2	82.8	6.99	9.15
3 X 150	14.2	8.0	0.1	1.9	0.8	3.2	85.8	7.56	10.26
3 X 185	15.9	8.0	0.1	2.0	0.8	3.3	89.9	8.30	11.67
3 X 240	18.3	8.0	0.1	2.1	0.8	3.5	95.7	9.36	13.79
3 X 300	20.4	8.0	0.1	2.2	0.8	3.6	100.6	10.51	16.07
3 X 400	23.2	8.0	0.1	2.3	0.8	3.8	107.2	11.99	19.07
3 X 500	26.4	8.0	0.1	2.4	0.8	4.0	120.1	14.15	23.85