远东电缆有限公司
FAR EAST CABLE CO.,LTD.

MV XLPE Armour Cable

voltage classes:3.6/6(7.2)kV, 6/10(12)kV, 8.7/15(17.5)kV, 12/20(24)kV, 18/30(30)kV Cu/Al conductor, XLPE insulated, Copper tape screened, PVC/PE bedding,steel wire armour and PVC/PE sheathed medium voltage cable

Application

The single-core or three-core cables are designed for transfer and distribution of electrical power with nominal voltage Uo/U(Um) 3.6/6(7.2)kV、6/10(12)kV、8.7/15(17.5)kV、12/20(24)kV、18/30(30)kV and frequency 50Hz. They are suitable for fixed assembly and indoor installation, in cable ducts and conduits, over shelves and grilles in water and directly underground in ditch and outdoor under shelter.

Construction

Conductor: Copper or Aluminum conductor, round stranded,class 2
Conductor Shield: semi-conductive XLPE compound
Insulation: XLPE compound
Insulation Shield: semi-conductive XLPE compound
Metallic sheath: Copper tape
Bedding: PVC/PE
Armour:steel wire
Outer sheath: PVC/PE

Technical Data

Nominal voltage	3.6/6(7.2) kV	6/10(12)kV	8.7/15(1 7.5)kV	12/20(24)kV	18/30(30)kV
Test voltage AC	12.5kV	21kV	30.5kV	42kV	63kV
Impulse voltage test	60kV	75kV	95kV	125kV	170kV

Temperature range:-15°C～+40°C
Max.short circuit temperature:250°C Short circuit time:5s
Bending radius: single core 20×cable diameter
three core 15×cable diameter

Standards / Material properties

Flame retardant:IEC60332
Application standards:IEC60502
Conductor standards:IEC60228

TECHNICAL DATA

Specification	Diameter of conductor	insulation thickness					Short circuit rating	
		3.6/6(7.2)kV	6/10(12)kV	8.7/15(17.5) kV	12/20(24)kV	18/30(30)kV	Cu	Al
mm^2	mm	mm	mm	mm	mm	mm	kA	kA
50	8.3	2.5	3.4	4.5	5.5	8.0	7.31	4.79
70	9.8	2.5	3.4	4.5	5.5	8.0	10.2	6.68
95	11.5	2.5	3.4	4.5	5.5	8.0	13.8	9.03
120	13.0	2.5	3.4	4.5	5.5	8.0	17.4	11.4
150	14.5	2.5	3.4	4.5	5.5	8.0	21.7	14.2
185	16.1	2.5	3.4	4.5	5.5	8.0	26.7	17.5
240	18.4	2.6	3.4	4.5	5.5	8.0	34.6	22.6
300	20.6	2.8	3.4	4.5	5.5	8.0	43.1	28.2
400	23.5	3.0	3.4	4.5	5.5	8.0	57.4	37.6
500	26.5	3.2	3.4	4.5	5.5	8.0	71.7	47.0