MYPTJ 3.6/6 kV Mobile Metal-enclosed Monitoring Type Rubber-sheathed Flexible Cable for Coal Mines

CABLE STRUCTURE:

Conductor:
Class 5 tinned copper
Conductor Shielding:
Rubber Type Semiconductive Inner Shielding
Insulation:
Power Core: EPDM Rubber (XJ-30)
Insulation Shielding:
Rubber Type Semiconductive Outer Shielding + Semiconductive Strip + Metal/Fiber Braided
Fillers (Optional):
Edge Gap Rubber Strip or Glass Fiber Rope
Inner Sheath:
EPDM Rubber (XJ-10)
Outer Sheath:
Mixture of Chlorinated Polyethylene or Other Comparable Materials (XH-03)

SPECIFICATION RANGE:

3 Core Power Main Core:
25 - 150 mm^2
1 Core Ground Wire Core:
Refer to the structural parameter table
Control Core:
3 × 2.5 mm^2

STANDARD:

MT 818.6-2009

APPLICATION:

Suitable for power connections of underground mobile transformers with a rated voltage not exceeding 3.6/6 kV and similar equipment.

TECHNICAL DATA:

Rated voltage:(U_0/U)
3.6/6 kV
The maximum system voltage :(U_m)
1.1 times U
Temperature classification:
Maximum operating temperature of the conductor: +75°C
Operating environment temperature: -20°C to +45°C
Cable laying temperature: Not lower than 0°C (When the ambient temperature is below 0°C, the cable should be preheated.)
Min.Bending Radius:
6 × cable O.D
Finished product voltage test:
Power wire core: 12.5 kV / 5 minutes
Partial discharge:
1.73U_0 The discharge amount at this voltage is no more than 20pC.
Installation method:
The laying of underground cables in coal mines is divided into methods such as in level tunnels or those below 45 °C, in chambers, and in vertical shafts or in tunnels above 45 °C or in boreholes.

CERTIFICATES:

Our series of mining products have undergone strict review by the National Coal Mine Safety Supervision Bureau and have obtained the Coal Mine Safety Mark Certification (MA Certification), providing a reliable guarantee for coal mine safety production.

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Specifications

MYPTJ 3.6/6 kV

Nom.Crosssection of conductor	Diameter of the power core conductor	Nominal thickness of the insulation for the power core wire	Inner sheath thickness	Nominal thickness of the outer sheath	Outer diameter of the cable	Total weight of the cable	Earth wire core 20℃ Maximum DC resistance of conductor
N × mm2	mm	mm	mm	mm	mm	kg/km	Ω/km
3 × 25+3 × 16/3+3 × 2.5	7.3	4.0	2.5	5.5	62.2	5369.4	2.31
3 × 35+3 × 16/3+3 × 2.5	9.2	4.0	2.5	5.5	66.2	6138.6	2.31
3 × 50+3 × 16/3+3 × 2.5	11	4.0	2.5	5.5	70.2	7031.3	2.31
3 × 70+3 × 25/3+3 × 2.5	13.1	4.0	3.0	5.5	75.8	8514.5	1.48
3 × 95+3 × 35/3+3 × 2.5	14.4	4.0	3.0	5.5	78.6	9690.6	1.05
3 × 120+3 × 35/3+3 × 2.5	16.3	4.0	3.0	5.5	82.7	10925.6	1.05
3 × 150+3 × 50/3+3 × 2.5	18.4	4.0	3.0	5.5	87.2	12629.2	0.73

Power Core Crosssection of conductor	Current carrying capacity	Maximum direct current resistance of the conductor at 20℃	Minimum insulation resistance at 20℃
mm2	A	Ω/km	MΩ · km
25	110	0.795	650
35	135	0.565	550
50	170	0.393	500
70	205	0.277	4450
95	250	0.210	400
120	295	0.164	350
150	320	0.13	350