



MYPTJ 8.7/10 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 mm²

1 Core Ground Wire Core:

Refer to the structural parameter table

Control Core:

3 × 2.5 mm²

STANDARD:

MT 818.6-2009

APPLICATION:

Suitable for power connections of underground
mobile transformers with a rated voltage not
exceeding 8.7/10 kV and similar equipment.

TECHNICAL DATA:

Rated voltage:(U₀/U)

8.7/10 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: 30.5 kV / 5 minutes

Partial discharge:

1.73U₀ 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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Rubber-sheathed Flexible Cable for Coal Mines**

Specifications

MYPTJ 8.7/10 kV

Nom.Crossection 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°C Maximum DC resistance of conductor
N × mm ²	mm	mm	mm	mm	mm	kg/km	Ω/km
3 × 25+3 × 16/3+3 × 2.5	7.3	5.5	2.5	5.5	69.1	5742.3	2.310
3 × 35+3 × 16/3+3 × 2.5	9.2	5.5	3.0	5.5	74.1	6528.4	2.310
3 × 50+3 × 25/3+3 × 2.5	11	5.5	3.0	5.5	78.1	7794.7	1.480
3 × 70+3 × 35/3+3 × 2.5	13.1	5.5	3.0	5.5	82.7	9120.1	1.050
3 × 95+3 × 50/3+3 × 2.5	14.4	5.5	3.0	5.5	85.5	10436.1	0.731
3 × 120+3 × 50/3+3 × 2.5	16.3	5.5	3.0	5.5	89.6	11671.0	0.731
3 × 150+3 × 50/3+3 × 2.5	18.4	5.5	3.0	5.5	94.1	13139.1	0.731

Power Core Crossection of conductor	Current carrying capacity	Maximum direct current resistance of the conductor at 20°C	Minimum insulation resistance at 20°C
mm ²	A	Ω/km	MΩ · km
25	110	0.795	1250
35	135	0.565	1150
50	170	0.393	1000
70	205	0.277	900
95	250	0.210	800
120	295	0.164	750
150	320	0.132	700