MCP 1.9/3.3kV Coal Mining Machine Shielded Rubber Flexible Cable

CABLE STRUCTURE:

Conductor:

Class 5 tinned copper

Insulation:

Power core: Polytetrafluoroethylene rubber (XJ-30)

Insulation shielding: Semiconductive tape

Ground core: Semiconductive rubber

(if used as a wrap, it is a semiconductive tape)

Control core: Polytetrafluoroethylene rubber (XJ-30)

Filling (optional):

Edge sealing rubber strips or glass fiber ropes

Sheath:

Chlorinated polyethylene or a mixture of 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:

Minimum 2.5 mm^2 and not less than 3 cores

STANDARD:

MT 818.2-2009

APPLICATION:

Suitable for power connections of coal mining machines and similar equipment with a rated voltage not exceeding 1.9/3.3 kV.

TECHNICAL DATA:

Rated voltage:(U_0/U)

1.9/3.3 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: 6.8 kV / 5 minutes

Control wire core: 1.5 kV / 5 minutes

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

MCP 1.9/3.3kV

Nom.Crosssection of conductor	Diameter of the power core conductor	Nominal thickness of the insulation for the power core wire	Nominal thickness of the sheath	Outer diameter of the cable	Total weight of the cable
N × mm2	mm	mm	mm	mm	kg/km
3 × 25+1 × 10	6.7	2.8	6.0	47.4	3572.7
3 × 35+1 × 10	7.9	2.8	6.0	50.8	4231.1
3 × 50+1 × 16	9.5	2.8	7.0	56.7	5477.5
3 × 70+1 × 25	11.2	3.0	7.0	62.6	6796.1
3 × 95+1 × 25	13.0	3.0	7.0	67.7	8123.1
3 × 120+1 × 35	14.7	3.2	7.0	72.3	9436.1
3 × 150+1 × 35	16.4	3.2	7.0	76.8	10871.2

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	450
35	135	0.565	400
50	170	0.393	350
70	205	0.277	300
95	250	0.210	250
120	295	0.164	250
150	320	0.132	250

Control Core Crosssection of conductor	Maximum direct current resistance of the conductor at 20℃	Minimum insulation resistance at 20℃
mm2	Ω/km	MΩ · km
2.5	14.7	100
4	8.83	100
6	5.47	100
10	3.60	100