Copper–cored plastic insulated power cables fixed–laying in coal mines

Brief introduction

This kind of cable is suitable for use in fixed installation in transmission/distribution lines for rated voltages less than 10kV such as the place from central distribution chamber to the electromechanical chamber, movab–le transformer substation, comprehensive mining workshop and switchgear. The cable has the characteristic of high flame retardancy.



1.1 Colliery PVC insulated flame retardant power cable(MT818.12—1999)

The specification and denomination sees Table2–1

Table2–1

Model	Name
MVV	Colliery PVC insulated PVC sheathed power cable
MVV22	Colliery PVC steel tap armored insulated PVC sheathed power cable
MVV32	Colliery PVC thi steel wire armored insulated PVC sheathed power cable
MVV42	Colliery PVC thick steel wire armored insulated PVC sheathed power cable

The specifications of the cable as Table 2–2

Model	Number of cores	Rated voltage (kV)		
		0.6/1	1.8/3	3.6/6、6/6、6/10
		Nominal cross–sectional area (mm2)		
MVV	3	1.5~300	10~300	10~300
MVV22	3	2.5~300	10~300	10~300
MVV32	3	–	–	16~300
MVV42	3	–	–	16~300
MVV	3+1	4~300	10~300	–
MVV22	3+1	4~300	10~300	–
MVV	4	4~185	4~185	–
MVV22	4	4~185	4~185	–

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Colliery copper core plastic insulated power cable for fixed laying

1.2 Colliery XLPE insulated flame retardant power cable(MT818.13–999)

The specification and denomination sees Table2–3

Table2–3

Model	Name
MYJV	Colliery XLPE insulated PVC sheathed power cable
MYJV22	Colliery XLPE steel tap armored insulated PVC sheathed power cable
MYJV32	Colliery XLPE thin steel wire armored insulated PVC sheathed power cable
MYJV42	Colliery XLPE thick steel wire armored insulated PVC sheathed power cable

The specifications of the cable see Table 2–4

Model	Number of cores	Rated voltage (kV)			
		0.6/1	1.8/3	3.6/6、6/6	6/10、8.7/10
		Nominal cross–sectional area (mm^2)			
MYJV	3	1.5~300	10~300	10~300	25~300
MYJV22	3	4~300	10~300	10~300	25~300
MYJV32	3	4~300	10~300	16~300	25~300
MYJV42	3	4~300	10~300	16~300	25~300

2.2 Main properties

2.1 For the cables are used in the mining of complicated conditions and inclement environment, abounded with gas and smut, easily caused exposition, the insulated plastic flame retardant power cables not only have the properties mentioned in the first chapter of this manual, but also have the property of high flame retardant. Among them, the one whose maximum cross–sectional area is 50mm and above should pass through The Combustion Testing Of A Type Co–llecting Electric Wire & Cable. If less than 50mm2,it should pass through The Combustion Testing Of B Type Collecting Electric Wire & Cable.

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2.2The maximum temperature when normal operation and short circuit (the of maximum time should not exc–eed 5s) of

For PVC insulated flame retardant power cable 70℃, the maximum temperature should not exceed 160℃ when short circuit. 90℃ for XLPE insulated flame retardant power cable, the maximum temperature should not exceed 250℃ when short circuit.

2.3 The installation conditions Of the cables

2.3.1 The ambient temperature should not less than 0℃.

2.3.2 The minimum blend radiuses see Table 4–5

Item	Single core cable		Three–core cable	
	Without armored	Armored	Without armor	Armored
The minimum blend radiuses of the cable as installation	20D	15D	15D	12D
The minimum blend radiuses close to the connection box and terminal cable	15D	12D	12D	10D

Annotation:D for the exterior diameter.

2.4 The current–carying quantity of the cable is as same as the one of same specification and type (VV or YJY) in the first chapter of this manual.