

1.9/3.3kV 及以下采煤机软电缆 (MT818.2-2009)
1.9/3.3kV Flexible Flame Retardant Mining Coal cutter Cable(MT 818.2-2009)



用途 Application

1.1 本产品为矿用橡套软电缆系列产品。使用于额定电压U₀/U为1.9/3.3kV及以下采煤机及类似设备装置作电源连接。
1.1 This product belong to rubber sheathed mining cable series. It is used as power connection for mining coal cutter and similar equipment for rated voltage U₀/U 1.9/3kV.

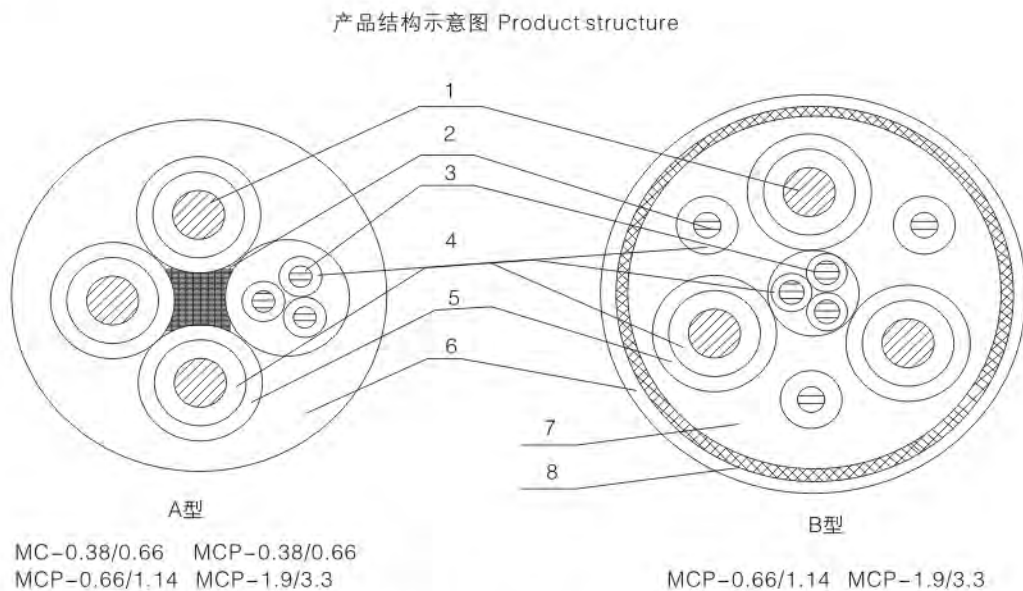
型号、名称、用途(见表1) Model,name,usage(see table1)

型号 Model	名称 Name	用途 Usage	表1Table1 结构Structure	
			A型	B型
MC-0.38/0.66	采煤机橡套软电缆 Flexible coal cutter cable	额定电压为0.38/0.66kV采煤及类似设备的电源连接 Power connection for mining coal cutter and the like equipment for rated voltage U ₀ /U 0.38/0.66kV	✓	—
MCP-0.38/0.66	采煤机屏蔽橡套软电缆 Flexible coal cutter cable with metal shielded	额定电压为0.38/0.66kV采煤及类似设备的电源连接 Power connection for mining coal cutter and the like equipment for rated voltage U ₀ /U 0.38/0.66kV	✓	—
MCP-0.66/1.14	采煤机屏蔽橡套软电缆 Flexible coal cutter cable with metal shielded	额定电压为0.66/1.44kV采煤及类似设备的电源连接 Power connection for mining coal cutter and the like equipment for rated voltage U ₀ /U 0.66/1.44kV	✓	✓
MCP-1.9/3.3	采煤机屏蔽橡套软电缆 Flexible coal cutter cable with metal shielded	额定电压为1.9/3.3kV采煤及类似设备的电源连接 Power connection for mining coal cutter and the like equipment for rated voltage U ₀ /U 1.9/3.3kV	✓	✓

执行标准和产品结构图 Standards and product structure

1、执行标准：MT818.2-2009
1、Standards:MT818.2-2009

2、产品结构图：
2、Product structure;



1-动力线芯导体; 2-地线芯导体及半电层 (MC型导体可挤包绝缘层); 3-控制线芯导体; 4-绝缘
5-动力线芯半导电屏蔽层 (MC型电缆无屏蔽层); 6-外护套; 7-内护套; 8-加强层
1-Power core conductor
2-Ground core conductor and semi-conductive layer (conductor of type MC can extruded insulation)
3-Control core conductor; 4-Insulation
5-Power core semi-conductive shielding layer (conductor of type MC without shielding layer)
6-Outer sheath; 7-Inner sheath; 8-Reinforced layer

工作条件 Working conditions

1、额定电压U₀分别为0.38/0.66kV、0.66/1.14kV或1.9/3.3kV;
2、电缆的最小弯曲半径为电缆直径的6倍;
3、电缆地线芯应良好接地;
4、额定电压U₀/U为0.66/1.14kV黄色护套电缆不得在日光下长期曝晒;
5、电缆导体的长期允许工作温度为90℃。

1、Rated voltage is 0.38/0.66kV、0.66/1.14kV or 1.9/3.3kV;
2、The minimum bending radius of cable is 6 times as much as its diameter.
3、The ground core of cable must be earthed well.
4、The yellow sheath cable of rated voltage 0.66/1.14kV mustn't be exposed in the sun for long time.
5、Long-term permissible working temperature of cable is 90℃.

主要技术参数和性能 Main parameters and performance

1、技术规格参数见表2、表3、表4
1、Technical parameter (see table 2-4)

额定电压0.38/0.66kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 0.38/0.66kV 表2Table2

芯线×导体标称截面 Cores No. × conductor nominal section(mm²)		标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)	
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation	护套 Sheath	MC-0.38/0.66	MCP-0.38/0.66
3×16	1×4	1.6	4.5	29.5~34.5	33.0~38.0
3×25	1×6	1.8	5.5	36.0~41.0	39.0~45.0
3×35	1×6	1.8	5.5	39.0~45.0	42.5~48.5
3×50	1×10	2.0	5.5	44.0~50.5	47.5~54.5
3×70	1×16	2.0	6.0	50.0~57.5	53.0~60.5
3×95	1×25	2.2	6.0	56.0~63.5	59.5~67.0
3×120	1×25	2.4	6.0	60.5~68.5	63.5~72.0

注：地线芯截面为最小截面，当用户要求超过此截面时，地线芯允许采用绕包半导体层。
Note: Ground core section is the Min. section; if customer require the section overtake,it can be wrapped with semi-conductive layer.

额定电压0.66/1.14kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 0.66/1.14kV 表3Table3

芯线×导体标称截面 Cores No. × conductor nominal section(mm²)			标称厚度 mm Nominal Thickness(mm)			电缆外径 Cable outer dia(mm)	
动力线芯 Power core	地线芯 Ground core		动力线芯绝缘 Power core insulation	护套 Sheath		MCP-0.66/1.14	
	A型	B型		A型	B型		
3×25	1×6	—	2.0	6.0	—	41.0~47.0	—
3×35	1×6	3×10/3	2.0	6.0	7.0	44.0~51.0	53.0~58.5
3×50	1×10	3×16/3	2.2	7.0	7.5	51.5~59.0	60.0~67.0
3×70	1×16	3×25/3	2.2	7.0	7.5	56.0~63.5	65.0~72.0
3×95	1×25	3×25/3	2.4	7.0	7.5	62.0~70.5	70.0~73.0
3×120	1×25	3×35/3	2.6	7.0	7.5	66.5~75.5	75.0~82.0
3×150	1×35	3×50/3	2.6	7.0	7.5	71.5~80.5	77.5~86.0

注：地线芯截面为最小截面，当用户要求超过此截面时，地线芯允许采用绕包半导体层。
Note: Ground core section is the Min. section; if customer require the section overtake,it can be wrapped with semi-conductive layer.

额定电压1.9/3.3kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 1.9/3.3kV 表4Table4

芯线×导体标称截面 Cores No. × conductor nominal section(mm²)			标称厚度 mm Nominal Thickness(mm)			电缆外径 Cable outer dia(mm)	
动力线芯 Power core	地线芯 Ground core		动力线芯绝缘 Power core insulation	护套 Sheath		MCP-0.66/1.14	
	A型	B型		A型	B型		
3×25	1×10	—	2.8	6.0	—	44.5~51.0	—
3×35	1×10	3×16/3	2.8	6.0	7.0	48.0~54.5	59.0~64.0
3×50	1×16	3×25/3	2.8	7.0	7.5	54.0~61.5	63.0~69.0
3×70	1×25	3×35/3	3.0	7.0	7.5	60.0~67.0	68.0~75.0
3×95	1×25	3×35/3	3.0	7.0	7.5	65.0~72.5	69.0~78.0
3×120	1×35	3×50/3	3.2	7.0	7.5	69.5~77.5	74.0~84.5
3×150	1×35	3×50/3	3.2	7.0	7.5	74.0~82.5	78.5~88.0

注：地线芯截面为最小截面，当用户要求超过此截面时，地线芯允许采用绕包半导体层。
Note: Ground core section is the Min. section; if customer require the section overtake,it can be wrapped with semi-conductive layer.

绝缘电阻 Insulation resistance 表5Table5

线芯类型 Type of core	标称截面 (mm²) Nominal section (mm²)	20℃ 时绝缘电阻最小值 MΩ·km The minimum value of insulation resistance at 20℃. (MΩ·km)	
		额定电压0.66/1.14kV及以下 Rated voltage up to and including 0.66/1.14kv	额定电压1.9/3.3kV Rated voltage 1.9/3.3kv
动力线芯 Power core	16	350	—
	25	300	450
	35	250	400
	50	250	350
	70	200	300
	95	200	250
	120	200	250
控制线芯 Control core	150	180	250
	2.5/4/6/10	100	100

20℃导体直流电阻见下表
The DC resistance of conductor in 20℃ (see next table)

第5种软铜导体 Class 5 soft copper conductor					
标称截面 (mm²) Nominal section(mm²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)		标称截面 (mm²) Nominal section(mm²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)	
	不镀金属 Non-metallized	镀金属 Metallized		不镀金属 Non-metallized	镀金属 Metallized
16	1.21	1.24	95	0.206	0.210
25	0.780	0.795	120	0.161	0.164
35	0.554	0.565	150	0.129	0.132
50	0.386	0.393			
70	0.272	0.277			

环境条件 Ambient condition

- 1、环境温度：-20℃~55℃；
- 2、能在煤尘、瓦斯、油污等严酷环境下使用。
- 1、Ambient temperature: -20℃~55℃；
- 2、It can be used in the abominable environment with coal dust、gas、greasy dirty and so on.

1.9/3.3kV 及以下采煤机金属屏蔽软电缆 (MT818.4-2009)

1.9/3.3kV Flexible Flame Retardant Mining Coal cutter Cable(MT 818.4-2009)

用途 Application

1.1本产品适用于额定电压0.66/1.14kV、1.9/3.3采煤机及类似设备用铜芯橡皮护套金属屏蔽软电缆。

1.1It is suitable for flexible copper-core rubber sheathed cable with individual metallic screen for coal cutter and similar equipments for rated voltage 0.66/1.14kV and 1.9/3.3kV

型号、名称、用途及规格尺寸 Model, name, usage, specification size

表1 Table1

型号 Model	名称 Name	用途 Usage
MCPT-0.66/1.14	采煤机金属屏蔽橡套软电缆 Flexible coal cutter rubber sheathed cable with screen	额定电压为0.66/1.14kV及以下采煤机及类似设备的电源连接 For power connecting of coal cutter and similar equipments for rated voltage up to0.66/1.14kV
MCPTJ-0.66/1.14	采煤机金属屏蔽橡套软电缆 Flexible coal cutter rubber sheathed cable with screen	
MCPT-1.9/3.3	采煤机金属屏蔽橡套软电缆 Flexible coal cutter rubber sheathed cable with screen	额定电压为1.9/3.3kV及以下采煤机及类似设备的电源连接 For power connecting of coal cutter and similar equipments for rated voltage up to1.9/3.3kV
MCPTJ-1.9/3.3	采煤机金属屏蔽橡套软电缆 Flexible coal cutter rubber sheathed cable with screen	

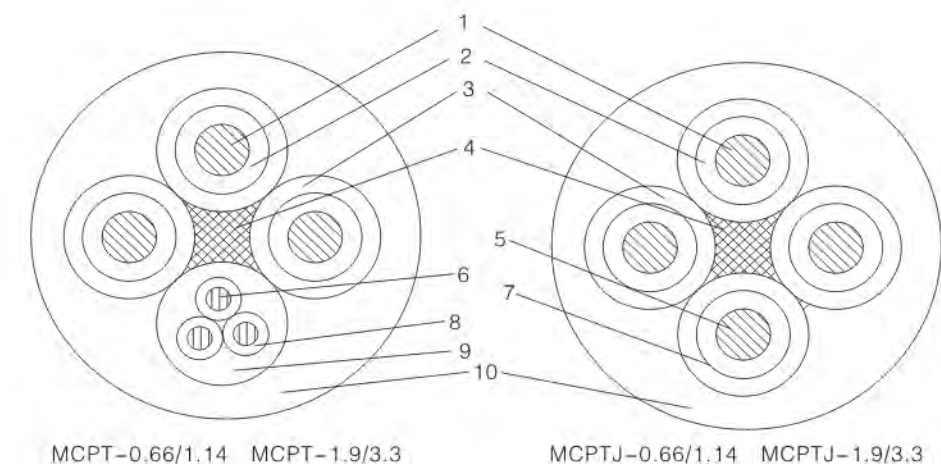
执行标准和产品结构图 Standards and product structure

1、执行标准：MT818.4-2009

1、Standards:MT818.4-2009

2、产品结构图：

2、Product structure:



1-动力线芯导体；2-动力线芯绝缘；
3-金属/纤维编织屏蔽；4-地线芯导体；
5-辅助线芯导体；6-控制线芯导体；
7-辅助线芯绝缘；8-控制线芯包覆层；
9-内护套；10-外护套

1-Power core conductor
2-Power core insulation
3-Metal or fiber braided shield
4-Ground core conductor
5-Auxiliary core conductor
6-Control core conductor
7-Auxiliary core insulation
8-Control core cover
9-Inner sheath
10-Outer sheath

工作条件 Working conditions

1、额定电压 U_0/U 分别为0.66/1.14kV或1.9/3.3kV；

2、电缆的最小弯曲半径为电缆直径的6倍；

3、电缆地线芯应良好接地；

4、电缆导体的长期允许工作温度为90℃。

1、Rated voltage is 0.66/1.14kv or 1.9/3.3kV.

2、The minimum bending radius of cable is 6 times as much as its diameter.

3、The ground core of cable must be earthed well.

4、Long-term permissible working temperature of cable conductor is 90℃.

主要技术参数和性能见表2、表3、表4 Main technical parameters and performance (see table 2-4)

额定电压0.66/1.14kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 0.66/1.14kV

表2Table2

芯线×导体标称截面 Cores No. × conductor nominal section(mm ²)			标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)	20℃时地线芯导体与屏蔽层 并联直流电阻最大值Ω/km
动力线芯 Power core	地线芯 Ground core	控制线芯 Control core	动力线芯绝缘 Power core insulation	护套 Sheath	MCPT-0.66/1.14	
3×25	1×16	3×4	1.5	5.0	39.7~42.9	0.56
3×35	1×16	3×4	1.6	5.0	43.1~46.3	0.54
3×50	1×25	3×4	1.7	5.3	48.5~51.8	0.44
3×70	1×35	3×6	1.8	5.8	55.1~58.8	0.30
3×95	1×50	3×6	2.0	6.4	62.4~66.1	0.26
3×120	1×50	3×10	2.2	6.9	68.0~72.5	0.24
3×150	1×70	3×10	2.4	7.3	74.5~79.5	0.23

额定电压0.66/1.14kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 0.66/1.14kV

表3 Table3

芯线×导体标称截面 Cores No. × conductor nominal section(mm ²)			标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)	20℃时地线芯导体与屏蔽层 并联直流电阻最大值Ω/km
动力线芯 Power core	地线芯 Ground core	辅助线芯 Auxiliary core	动力线芯绝缘 Power core insulation	护套 Sheath	MCPTJ-0.66/1.14	
3×16	1×16	1×16	1.5	5.0	35.8~38.6	0.66
3×25	1×16	1×16	1.5	5.0	39.7~42.9	0.56
3×35	1×16	1×16	1.6	5.0	43.1~46.3	0.54
3×50	1×25	1×25	1.7	5.3	48.5~51.8	0.44
3×70	1×35	1×35	1.8	5.8	55.1~58.8	0.30
3×95	1×50	1×50	2.0	6.4	62.4~66.1	0.26
3×120	1×50	1×50	2.2	6.9	68.0~72.5	0.24
3×150	1×70	1×70	2.4	7.3	74.5~79.5	0.23

额定电压1.9/3.3kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 1.9/3.3kV

表4 Table4

芯线×导体标称截面 Cores No. × conductor nominal section(mm ²)			标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)	20℃时地线芯导体与屏蔽层 并联直流电阻最大值Ω/km
动力线芯 Power core	地线芯 Ground core	控制线芯 Control core	动力线芯绝缘 Power core insulation	护套 Sheath	MCPT-1.9/3.3	
3×25	1×16	3×4	3.0	5.1	47.4~49.9	0.50
3×35	1×35	3×4	3.0	5.5	51.6~54.6	0.50
3×50	1×35	3×4	3.0	5.9	56.8~59.8	0.35
3×70	1×50	3×6	3.0	6.4	62.8~65.8	0.35
3×95	1×50	3×6	3.0	6.9	68.9~72.7	0.28
3×120	1×70	3×10	3.0	7.3	73.4~77.2	0.28
3×150	1×70	3×10	3.0	7.8	79.0~83.6	0.25

额定电压1.9/3.3kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 1.9/3.3kV 表5 Table5

芯线×导体标称截面 Cores No. × conductor nominal section(mm ²)			标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)	20℃时地线芯导体与屏蔽层 并联直流电阻最大值 Ω/km
动力线芯 Power core	地线芯 Ground core	辅助线芯 Auxiliary core	动力线芯绝缘 Power core insulation	护套 Sheath	MCPTJ-1.9/3.3	
3×25	1×25	1×16	3.0	5.1	47.4~49.9	0.50
3×35	1×35	1×35	3.0	5.5	51.6~54.6	0.50
3×50	1×35	1×25	3.0	5.9	56.8~59.8	0.35
3×70	1×50	1×35	3.0	6.4	62.8~65.8	0.35
3×95	1×50	1×50	3.0	6.9	68.9~72.7	0.28
3×120	1×70	1×70	3.0	7.3	73.4~77.2	0.28
3×150	1×70	1×70	3.0	7.8	79.0~83.6	0.25

电缆20℃时绝缘电阻达到表6的规定。The resistance of insulation at 20℃ reaches table 6 standards.

绝缘电阻 Insulation resistance

表6 Table6

线芯类型 Type of core	标称截面(mm ²) Nominal section(mm ²)	20℃ 时绝缘电阻最小值MΩ·km The minimum value of insulation resistance at 20℃. (MΩ·km)	
		额定电压0.66/1.14kV及以下 Rated voltage up to and including 0.66/1.14kV	额定电压1.9/3.3kV Rated voltage 1.9/3.3kv
动力线芯或 辅助线芯 Power core or auxiliary core	16	350	1150
	25	300	980
	35	260	850
	50	230	740
	70	210	630
	95	200	550
	120	200	510
	150	180	450
控制线芯 Control core	4/6/10	100	100

20℃导体直流电阻见下表 The DC resistance of conductor in 20℃ (see next table)

第5种软铜导体 Class 5 soft copper conductor					
标称截面 (mm ²) Nominal section(mm ²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)		标称截面 (mm ²) Nominal section(mm ²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)	
	不镀金属 Non-metallized	镀金属 Metallized		不镀金属 Non-metallized	镀金属 Metallized
16	1.21	1.24	95	0.206	0.210
25	0.780	0.795	120	0.161	0.164
35	0.554	0.565	150	0.129	0.132
50	0.386	0.393			
70	0.272	0.277			

环境条件 Ambient condition

- 1、环境温度：-20℃~55℃；
- 2、能在煤尘、瓦斯、油污等严酷环境下使用。
- 1、Ambient temperature: -20℃~55℃；
- 2、It can be used in the abominable environment with coal dust、gas、greasy dirty and so on.

0.66/1.14kV 及以下矿用移动软电缆 (MT818.5-2009)
Flexible Cable of Rated Voltage 0.66/1.14kV and Below for Mining Purpose (MT818.5-2009)

用途 Application

- 1.1本产品为矿用橡套软电缆系列产品。适用于：额定电压0.66/1.14kV及以下的移动式采煤机组等设备装置作连接电源用线路。
- 1.1This product is the rubber sheath flexible cable series used in coal-mining.It is fit for rated voltage 0.66/1.14kV used in coal-mining machines installation equipment to connect the power supply. It can be shifted as you like.

型号、名称、用途及规格尺寸 Model, name, usage, specification size

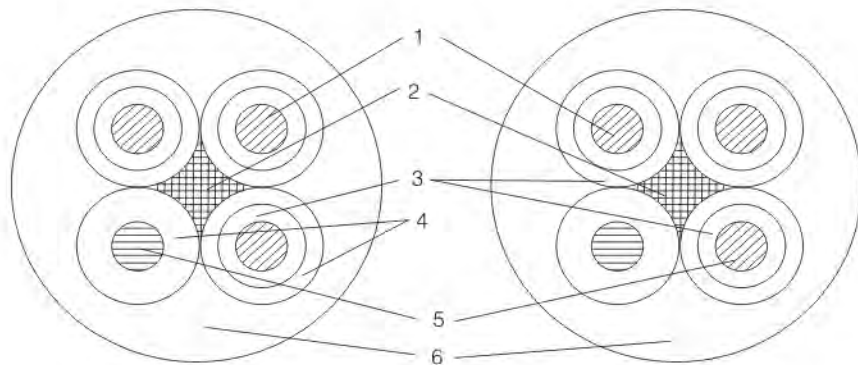
表1 Table1

型号 Model	名称 Name	用途 Usage
MY-0.38/0.66	煤矿用移动橡套软电缆 Shifting rubber sheath cable used in the mines	额定电压为0.38/0.66kV各种井下移动采煤设备的电源连接 Rated voltage 0.38/0.66kV for various coal-mining equipments to connect power supply in the mines
MYP-0.38/0.66	煤矿用移动屏蔽橡套软电缆 Shifting shield rubber sheath flexible cable used in the mines	
MYP-0.66/1.14	煤矿用移动屏蔽橡套软电缆 Shifting shield rubber sheath flexible cable used in the mines	额定电压为0.66/1.14kV各种井下移动采煤设备的电源连接 Rated voltage 0.66/1.14kV for various coal-mining equipments to connect power supply in the mines

执行标准和产品结构图 Standards and product structure

- 1、执行标准：MT818.5-2009
- 1、Standards:MT818.5-2009

- 2、产品结构图：
- 2、Product structure:



MY-0.38/0.66 MYP-0.66/1.14

MYP-0.38/0.66

- 1-动力线芯导体；2-填充；3-绝缘；4-半导体层；5-地线芯导体；6-护套
- 1-Power core conductor；2-Filler；3-Insulation
- 4-Semi-conductive layer；5-Ground core conductor；6-Sheathing

工作条件 Working conditions

- 1、额定电压U₀/U分别为0.38/0.66kV、0.66/1.14kV；

2、电缆的最小弯曲半径为电缆直径的6倍；

3、电缆地线芯应良好接地；

4、电缆导体的长期允许工作温度为90℃。
- 1、Rated voltage is 0.38/0.66kV or 0.66/1.14kV.

2、The minimum bending radius of cable is 6 times as much as its diameter.

3、The ground core of cable must be earthed well.

4、Long-term permissible working temperature of cable conductor is 90℃.

主要技术参数和性能 Main parameters and performance

- 1、技术规格参数见表2、表3、表4
- 1、Technical parameter (see table 2-4)

额定电压0.38/0.66kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 0.38/0.66kV 表2Table2

芯线×导体标称截面 Cores No. × conductor nominal section(mm²)		标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)	
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation	护套 Sheath	MY-0.38/0.66	MYP-0.38/0.66
3×4	1×4	1.4	3.5	19.0~22.5	22.0~26.5
3×6	1×6	1.4	3.5	21.0~25.5	24.0~29.0
3×10	1×10	1.6	4.0	25.0~30.0	28.0~32.5
3×16	1×10	1.6	4.0	27.5~32.0	30.5~35.5
3×25	1×16	1.8	4.5	32.5~37.5	35.5~41.0
3×35	1×16	1.8	4.5	35.5~41.0	38.5~44.5
3×50	1×16	2.0	5.0	41.5~47.5	44.5~51.0
3×70	1×25	2.0	5.0	46.0~53.0	49.0~56.0
3×95	1×25	2.2	5.5	52.5~59.5	55.5~63.0
3×120	1×35	2.4	5.5	56.0~63.5	59.0~67.0
3×150	1×50	2.4	6.0	62.5~70.5	65.5~74.0

注：地线芯截面为最小截面。
Note: Ground core section is the smallest cross section.

额定电压0.66/1.14kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 0.66/1.14kV 表3Table3

芯线×导体标称截面 Cores No. × conductor nominal section(mm²)		标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation	护套 Sheath	MYP-0.66/1.14
3×10	1×10	1.8	4.5	30.0~35.0
3×16	1×10	1.8	4.5	32.5~37.5
3×25	1×16	2.0	5.0	37.5~43.0
3×35	1×16	2.0	5.0	40.5~46.5
3×50	1×16	2.2	5.5	46.5~53.0
3×70	1×25	2.2	5.5	51.0~58.0
3×95	1×25	2.4	6.0	57.5~65.0
3×120	1×35	2.4	6.0	61.0~69.0
3×150	1×50	2.6	6.0	66.5~75.0

注：地线芯截面为最小截面。
Note: Ground core section is the smallest cross section.

电缆20℃时绝缘电阻达到表4的规定 The resistance of insulation at 20℃ reach table 4 standards.

表4Table4

动力线芯标称截面 mm² Nominal cross section area of power core (mm²)	20℃时绝缘电阻最小值MΩ·km The minimum value of insulation resistance at 20℃. (MΩ·km)	动力线芯标称截面 mm² Nominal cross section area of power core (mm²)	20℃时绝缘电阻最小值MΩ·km The minimum value of insulation resistance at 20℃. (MΩ·km)
4	600	95	200
6	450	120	200
10	400	150	180
16	350	185	180
25	300	240	160
35	250	300	140
50	250	400	140
70	200	-	-

20℃导体直流电阻见下表 The DC resistance of conductor in 20℃ (see next table)

第5种软铜导体 Class 5 soft copper conductor					
标称截面 (mm²) Nominal section(mm²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)		标称截面 (mm²) Nominal section(mm²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)	
	不镀金属 Non-metallized	镀金属 Metallized		不镀金属 Non-metallized	镀金属 Metallized
4	4.95	5.09	50	0.386	0.393
6	3.30	3.39	70	0.272	0.277
10	1.91	1.95	95	0.206	0.210
16	1.21	1.24	120	0.161	0.164
25	0.780	0.795	150	0.129	0.132
35	0.554	0.565	-	-	-

环境条件 Ambient condition

- 1、环境温度：-20℃~55℃；
- 2、能在煤尘、瓦斯、油污等严酷环境下使用。

- 1、Ambient temperature: -20℃~55℃；
- 2、It can be used in the abominable environment with coal dust、gas、greasy dirty and so on.

8.7/10kV 及以下移动金属屏蔽监视型软电缆 (MT818.6-2009)
Mining Flexible Cable with Monitoring core and Semi-conducting Screen for 8.7/10kV and Below(MT818.6-2009)

用途 Application

1.1 本产品适用于煤矿井下移动变压器及类似设备用铜芯橡皮绝缘金属屏蔽监视型软电缆。
1.1 It is suitable for flexible copper-core rubber inflated cable with monitoring core and semi-conducting screen for mine movable transformer and similar equipments.

型号、名称、用途及规格尺寸 Model, name, usage, specification size

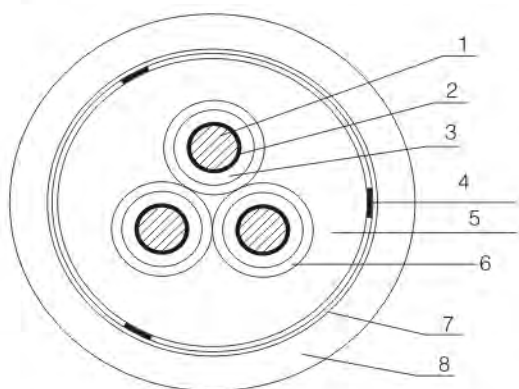
表1 Table1

型号 Model	名称 Name	用途 Usage
MYPTJ-3.6/6	煤矿用移动金属屏蔽监视型橡套软电缆 Flexible with monitoring core and semi-conducting screen for mining purposes	额定电压3.6/6kV的井下移动变压器及类似设备的电源连接 For power connection of mine movable trans/ormer and similar equipments for rated voltage3.6/6kV
MYPTJ-6/10	煤矿用移动金属屏蔽监视型橡套软电缆 Flexible with monitoring core and semi-conducting screen for mining purposes	额定电压 6/10kV的井下移动变压器及类似设备的电源连接 For power connection of mine movable trans/ormer and similar equipments for rated voltage6/10kV
MYPTJ-8.7/10	煤矿用移动金属屏蔽监视型橡套软电缆 Flexible with monitoring core and semi-conducting screen for mining purposes	额定电压8.7/10kV的井下移动变压器及类似设备的电源连接 For power connection of mine movable trans/ormer and similar equipments for rated voltage 8.7/10kV

执行标准和产品结构图 Standards and product structure

1、执行标准：MT818.6-2009
1、Standards:MT818.6-2009

2、产品结构图：
2、Product structure:



MYPTJ-3.6/6 MYPTJ-6/10 MYPTJ-8.7/10

1-动力线芯导体；2-导体屏蔽；
3-绝缘；4-监视线芯及半导电包层；
5-内护套；6-绝缘屏蔽（兼作接地线）；
7-绝缘包带；8-外护套

1-Power core conductor
2-Conductor screen
3-Insulation
4-Monitoring core and Semi-conducting Screen layer
5-Inner sheath
6-Insulation screen (earth wire)
7-Insulation bandage
8-Outer sheath

工作条件 Working conditions

- 1、额定电压 U_0/U 分别为3.6/6kV、6/10kV和8.7/10kV；
 - 2、电缆的最小弯曲半径为电缆直径的6倍；
 - 3、电缆地线芯应良好接地；
 - 4、电缆导体的长期允许工作温度为90℃。
- 1、Rated voltage is 3.6/6kV、6/10kV or 8.7/10kV.
 - 2、The minimum bending radius of cable is 6 times as much as its diameter.
 - 3、The ground core of cable must be earthed well.
 - 4、Long-term permissible working temperature of cable conductor is 90℃.

主要技术参数和性能 Main parameters and performance

1、技术规格参数见表2、表3、表4
1、Technical parameter (see table 2-4)

额定电压3.6/6kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 3.6/6kV

表2Table2

芯线×导体标称截面 Cores No. × conductor nominal section(mm ²)			标称厚度 mm Nominal Thickness(mm)			电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	控制线芯 Control core	动力线芯绝缘 Power core insulation	内护套 Inner sheath	外护套 Outer sheath	MYPTJ-3.6/6
3×25	3×16/3	3×2.5	4.0	2.5	5.5	61.0~69.0
3×35	3×16/3	3×2.5	4.0	2.5	5.5	63.5~72.0
3×50	3×16/3	3×2.5	4.0	2.0	5.5	67.5~76.0
3×70	3×25/3	3×2.5	4.0	3.0	5.5	72.5~82.0
3×95	3×35/3	3×2.5	4.0	3.5	5.5	77.0~87.0
3×120	3×35/3	3×2.5	4.0	3.5	5.5	80.5~90.0
3×150	3×50/3	3×2.5	4.0	3.0	5.5	84.5~94.5

注：地线芯截面为最小截面，内护套计算厚度不作考核。
Note: Ground core section is the smallest cross section,Thickness of inner sheath should be computed,but it is no need to check.

额定电压6/10kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 6/10kV

表3Table3

芯线×导体标称截面 Cores No. × conductor nominal section(mm ²)			标称厚度 mm Nominal Thickness(mm)			电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	控制线芯 Control core	动力线芯绝缘 Power core insulation	内护套 Inner sheath	外护套 Outer sheath	MYPTJ-6/10
3×25	3×16/3	3×2.5	4.5	2.5	5.5	63.0~71.0
3×35	3×16/3	3×2.5	4.5	2.5	5.5	66.0~74.5
3×50	3×25/3	3×2.5	4.5	3.0	5.5	70.5~79.5
3×70	3×35/3	3×2.5	4.5	3.0	5.5	74.5~84.0
3×95	3×50/3	3×2.5	4.5	3.0	5.5	79.5~88.5
3×120	3×50/3	3×2.5	4.5	3.0	5.5	82.5~92.0
3×150	3×50/3	3×2.5	4.5	3.0	5.5	86.5~96.5

注：地线芯截面为最小截面，内护套计算厚度不作考核。
Note: Ground core section is the smallest cross section,Thickness of inner sheath should be computed,but it is no need to check.

额定电压8.7/10kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 8.7/10kV

表4Table4

芯线×导体标称截面 Cores No. × conductor nominal section(mm ²)			标称厚度 mm Nominal Thickness(mm)			电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	监视线芯 Monitor core	动力线芯绝缘 Power core insulation	内护套 Inner sheath	外护套 Outer sheath	MYPTJ-8.7/10
3×25	3×16/3	3×2.5	5.5	2.5	5.5	67.0~76.0
3×35	3×16/3	3×2.5	5.5	3.0	5.5	71.0~80.0
3×50	3×25/3	3×2.5	5.5	3.0	5.5	75.0~84.5
3×70	3×35/3	3×2.5	5.5	3.0	5.5	79.0~88.0
3×95	3×50/3	3×2.5	5.5	3.0	5.5	83.5~93.0
3×120	3×50/3	3×2.5	5.5	3.0	5.5	86.5~96.5
3×150	3×50/3	3×2.5	5.5	3.0	5.5	91.0~101.5

注：地线芯截面为最小截面，内护套计算厚度不作考核。
Note: Ground core section is the smallest cross section,Thickness of inner sheath should be computed,but it is no need to check.

绝缘电阻 Insulation resistance

表5Table5

标称截面 mm² Nominal section(mm²)	20℃时绝缘电阻最小值MΩ·km The minimum value of insulation resistance at 20℃. (M Ω·km)			地线芯导体 20℃时绝缘电阻最小值MΩ·km The minimum value of insulation resistance at 20℃. (M Ω·km)
	额定电压3.6/6kV Rated voltage 3.6/6kV	额定电压6/10kV Rated voltage 6/10kV	额定电压8.7/10kV Rated voltage 8.7/10kV	
16	—	—	—	2.31
25	650	700	1250	1.48
35	550	650	1150	1.05
50	500	550	1000	0.731
70	450	500	900	0.515
95	400	450	800	—
120	350	400	750	
150	350	350	700	

20℃导体直流电阻见下表 The DC resistance of conductor in 20℃ (see next table)

第5种软铜导体 Class 5 soft copper conductor					
标称截面 (mm²) Nominal section(mm²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)		标称截面 (mm²) Nominal section(mm²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)	
	不镀金属 Non-metallized	镀金属 Metallized		不镀金属 Non-metallized	镀金属 Metallized
25	0.780	0.795	150	0.129	0.132
35	0.554	0.565			
50	0.386	0.393			
70	0.272	0.277			
95	0.206	0.210			
120	0.161	0.164			

环境条件 Ambient condition

- 1、环境温度：-20℃~55℃；
- 2、能在煤尘、瓦斯、油污等严酷环境下使用。

- 1、Ambient temperature: -20℃~55℃；
- 2、It can be used in the abominable environment with coal dust、gas、greasy dirty and so on.

6/10kV 及以下移动屏蔽软电缆（MT818.7-2009）
Flexible Cable with Metal Screen for 6/10kV and Below (MT818.7-2009)

用途 Application

- 1.1本产品适用于额定电压1.9/3.3kV和3.6/6kV煤矿移动设备用铜芯橡皮绝缘护套软电缆。
- 1.1 It is suitable for flexible copper-core rubber insulated rubber sheathed cable for mining movable equipments for rated voltage1.9/3.3kV and 3.6/6kV.

使用条件 Conditions of usage

- 2.1额定电压U₀/U为3.6/6kV;1.9/3.3kV ;6/10kV。
- 2.2电缆导体的长期允许工作温度为90℃;电缆的最小弯曲半径为电缆直径的6倍；
- 2.3电缆的地线芯必须良好接地；红色护套电缆不得在日光下长期暴露。
- 2.1 Rated Voltage U₀/U:1.9/3.3kV; 3.6/6kV ;6/10kV。
- 2.2 Long-term permissible working temperature of cable conductor is 90℃;Cable nin bending radius of cable is 6times as much as its diameter;
- 2.3 The ground core of cable must be earthed well; The red sheathed cable mustn't be exposed in the sun for long time.

型号、名称、用途及规格尺寸(见表1-5) Model, name, usage, specification & size(see table 1-5)

表1 Table1

型号 Model	名称 Name	用途 Usage
MYPT-1.9/3.3	煤矿用移动金属屏蔽橡套软电缆 Mobile metal shielding Mine rubble cable	额定电压1.9/3.3kV井下移动采煤设备的电源连接 Underground mining equipment, mobile 1.9/3.3kV rated voltage power link
MYP-3.6/6	煤矿用移动屏蔽橡套软电缆 Mobile Mine rubble cable shielding	额定电压3.6/6kV移动式地面矿山机械电源连接 Mobile surface mining machinery3.6/6kV rated voltage power link
MYPT-3.6/6	煤矿用移动金属屏蔽橡套软电缆 Mobile metal shielding Mine rubble cable	
MYPT-6/10	煤矿用移动金属屏蔽橡套软电缆 Mobile metal shielding Mine rubble cable	额定电压3.6/6kV移动式地面矿山机械电源连接 Mobile surface mining machinery3.6/6kV rated voltage power link

额定电压1.9/3.3 kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 1.9/3.3kV

表2 Table2

芯数×导体标称截面 Cores No. × conductor nominal section(mm²)		标称厚度 Nominal thickness(mm)		电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation (mm)	护套 Sheath	MYPT-1.9/3.3
3×35	3×16/3	2.8	6.0	47.0~54.0
3×50	3×16/3	2.8	6.0	50.5~57.5
3×70	3×25/3	3.0	6.0	56.0~63.5
3×95	3×35/3	3.0	6.0	60.5~67.5
3×120	3×35/3	3.2	6.0	64.5~72.0
3×150	3×50/3	3.2	6.0	68.5~76.5

注：地线芯截面为最小截面。 Note: Ground core section is the smallest cross section

额定电压3.6/6 kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 3.6/6kV

表3 Table3

芯数×导体标称截面 Cores No. × conductor nominal section(mm ²)		标称厚度 Nominal thickness(mm)		电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation (mm)	护套 Sheath	MYPT-3.6/6
3×16	1×16	4.0	5.5	48.0~55.0
3×25	1×16	4.0	5.5	51.0~58.0
3×35	1×16	4.0	5.5	54.0~61.5
3×50	1×25	4.0	5.5	58.0~66.0
3×70	1×25	4.0	6.0	64.0~72.0
3×95	1×35	4.0	6.0	68.5~77.0
3×120	1×35	4.0	6.0	71.5~80.0
3×150	1×50	4.0	6.0	76.0~85.0

注：地线芯截面为最小截面。

Note: Ground core section is the smallest cross section

额定电压3.6/6 kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 3.6/6kV

表4 Table4

芯数×导体标称截面 Cores No. × conductor nominal section(mm ²)		标称厚度 Nominal thickness(mm)		电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation (mm)	护套 Sheath	MYPT-3.6/6
3×16	3×16/3	4.0	5.5	49.0~56.0
3×25	3×16/3	4.0	5.5	51.5~58.5
3×35	3×16/3	4.0	5.5	54.5~62.0
3×50	3×25/3	4.0	5.5	58.5~66.0
3×70	3×25/3	4.0	6.0	64.0~72.0
3×95	3×35/3	4.0	6.0	68.0~77.0
3×120	3×35/3	4.0	6.0	71.5~79.5
3×150	3×50/3	4.0	6.0	75.5~84.5

注：地线芯截面为最小截面。

Note: Ground core section is the smallest cross section

额定电压6/10kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 6/10kV

表5 Table5

芯数×导体标称截面 Cores No. × conductor nominal section(mm ²)		标称厚度 Nominal thickness(mm)		电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation (mm)	护套 Sheath	MYPT-6/10
3×16	3×16/3	5.0	6.0	54.0~61.0
3×25	3×16/3	5.0	6.0	57.0~64.5
3×35	3×16/3	5.0	6.0	59.5~67.5
3×50	3×25/3	5.0	6.0	63.5~72.0
3×70	3×35/3	5.0	6.0	68.0~76.5
3×95	3×50/3	5.0	6.0	72.5~81.0
3×120	3×50/3	5.0	6.0	75.5~84.5
3×150	3×50/3	5.0	6.0	79.5~89.0

注：地线芯截面为最小截面。

Note: Ground core section is the smallest cross section

0.3/0.5kV 煤矿用电钻电缆

0.3/0.5kV Drilling Cable for Mining Purpose.

用途 Application

1.1 本产品适用于额定电压0.3/0.5kV煤矿用铜芯电钻电缆。

1.1 This product is used to copper conductor drilling cable of rated voltage 0.3/0.5kv for mining purpose.

电缆型号、名称 Cable model, name

电缆规格符合表1规定 Cable specification in line with table 1

表1 Table1

型号 Model	标称截面(mm ²) Nominal section(mm ²)	用途 Usage
MZ-0.3/0.5kV	2.5~4	煤矿井下额定电压0.3/0.5kV以下电钻的电源连接 As power connection for rated voltage 0.3/0.5 kV on mining occasion
MZP-0.3/0.5kV		

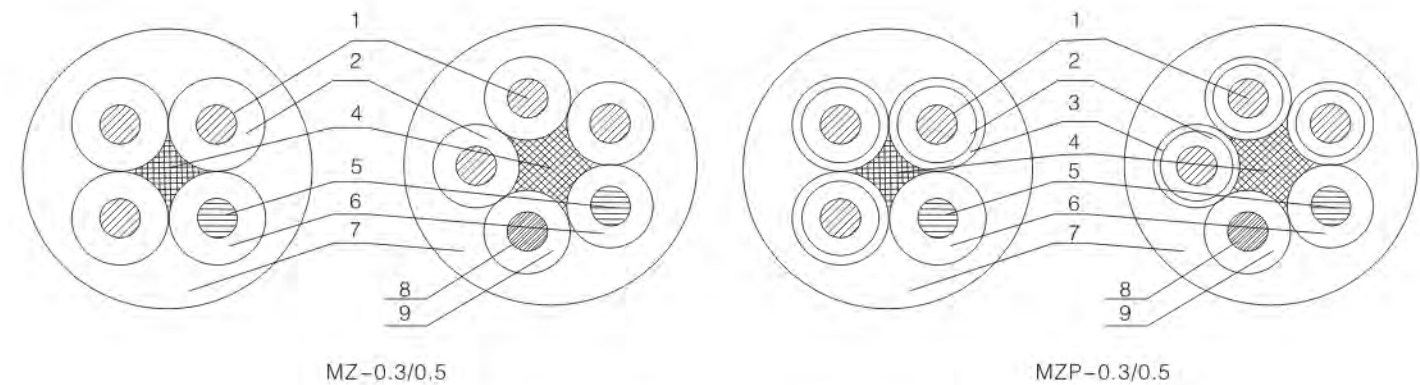
执行标准 and 产品结构图 Standards and product structure

1、执行标准：MT818.8-2009

1、Standards:MT818.8-2009

2、产品结构图：

2、Product structure:



MZ-0.3/0.5

MZP-0.3/0.5

1-动力线芯导体；2-动力线芯绝缘；3-半导电屏蔽层；4-填充；5-地线芯导体；

6-地线芯包层；7-护套；8-控制线芯导体；9-控制线芯绝缘

1-Power core conductor；2-Power core insulation

3-Semi-conductive shielding layer；4-Filler

5-Ground core conductor；6-Ground core cladding

7-Sheathing；8-Control core conductor；9 control core insulation

工作条件 Working conditions

1、额定电压U₀/U分别为0.3/0.5kV；

2、电缆的最小弯曲半径为电缆直径的6倍；

3、电缆地线芯应良好接地；

1、Rated voltage is 0.3/0.5kV；

2、The minimum bending radius of cable is 6 times as much as its diameter.

3、The ground core of cable must be earthed well.

主要技术参数和性能 Main parameters and performance

1、导体单线采用镀锡铜丝，其性能符合GB/T 3956-1997及GB/T 4910-2009标准要求；

1.1 导体直流电阻、绝缘电阻符合表2规定

1、Single wire conductor uses tinned copper wire, its performance in line with GB/T 3956-1997 and GB/T 4910-2009 standards.

1.1 The DC resistance and insurance resistance in line with table 2 standards.

表2Table2

动力线芯标称截面 Power core nominal section(mm²)	20℃时绝缘电阻最小值MΩ.km The minimum value of insulation resistance at 20℃. (MΩ/km)	20℃时镀锡铜芯导体最大电阻 Ω/km The maximum resistance value of tinned copper conductor at 20℃.(Ω/km)
2.5	350	8.82
4	300	5.39

2、电缆规格、标称厚度及外径符合表3的规定。

2、specification、nominal thickness and overall diameter of cable in line with table 3 standards.

表3Table3

芯线×导体标称截面 Cores No. × conductor nominal section(mm²)			导体根数/单线 标称直径mm Strand number of conductor/nominal diameter of single wire (mm)	标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)	
动力线芯 Power core	地线芯 Ground core	控制线芯 Control core		动力线芯绝缘 Power core insulation	护套 Sheath	MZ-0.3/0.5	MZP-0.3/0.5
3×2.5	1×2.5	—	77/0.2	1	3.5	16.5~19.5	19.5~23.0
3×4	1×4	—	126/0.2	1	3.5	17.5~21.5	21.0~24.5
3×2.5	1×2.5	1×2.5	77/0.2	1	3.5	17.5~21.0	21.0~24.5
3×4	1×4	1×4	126/0.2	1	3.5	19.0~23.0	22.5~26.5

环境条件 Ambient condition

1、环境温度：-20℃~55℃；

2、能在煤尘、瓦斯、油污等严酷环境下使用。

1、Ambient temperature: -20℃~55℃；

2、It can be used in the abominable environment with coal dust、gas、greasy dirty and so on.

0.3/0.5kV煤矿用移动轻型软电缆(MT818.9-2009)

0.3/0.5kV Light-duty Flexible Cable for Mining Purpose. (MT818.9-2009)

用途 Application

1.1 本产品适用于额定电压0.3/0.5kV煤矿和铜芯移动轻型软电缆。

1.1 This product is suitable for flexible copper-core light-duty cable for rated voltage 0.3/0.5kV.

型号、名称、用途及规格尺寸(见表1-2) Model, name, usage, specification size(see table 1-2)

表1 Table1

型号 Model	名称 Name	用途 Usage
MYQ-0.3/0.5	煤矿用移动轻型橡套软电缆 Flexible heave-duty rubber sheathed cable	煤矿井下巷道照明，输送机联锁和控制与信号设备电源连接 For illuminating mine, interlocking and controlling conveyer, power connecting with signal equipment.

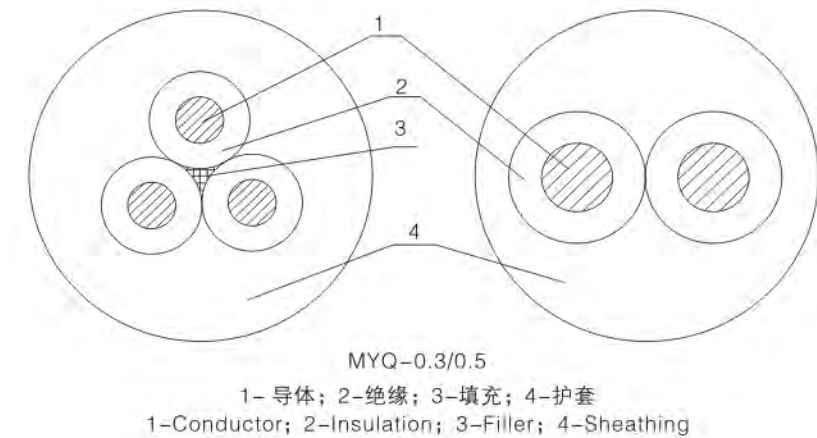
执行标准和产品结构图 Standards and product structure

1、执行标准：MT818.9-2009

1、Standards:MT818.9-2009

2、产品结构图：

2、Product structure:



工作条件 Working conditions

1、额定电压U₀/U分别为0.3/0.5kV；

1、Rated voltage is 0.3/0.5kV；

2、电缆的最小弯曲半径为电缆直径的6倍；

2、The minimum bending radius of cable is 6 times as much as its diameter.

主要技术参数和性能 Main parameters and performance

1、导体直流电阻符合表2规定

1、DC resistance of conductor in line with table 2 standards.

表2Table2

标称截面 (mm²) Nominal section(mm²)	20℃ 时导电最大电阻(Ω/km) The maximum resistance of conductor at 20℃(Ω/km)	
	不镀金属 Non-metallized	镀金属 Metallized
1.0	19.5	20.0
1.5	13.3	13.7
2.5	7.98	8.21

2、电缆规格、标称厚度及外径符合表3的规定。
2、Specification、nominal thickness and overall diameter of cable in line with table 3 standards

表3Table3

芯线×导体 标称截面 Cores No. × conductor nominal section(mm²)	标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)	芯线×导体 标称截面 Cores No. × conductor nominal section(mm²)	标称厚度 mm Nominal Thickness(mm)		电缆外径 Cable outer dia(mm)
	绝缘 Insulation	护套 Sheath			绝缘 Insulation	护套 Sheath	
			MYQ-0.3/0.5				MYQ-0.3/0.5
2×1.0	0.6	1.5	7.5~10.0	4×2.5	1.0	2.0	13.5~16.5
2×1.5	0.8	1.5	9.0~11.5	7×1.0	0.6	1.5	10.5~13.0
2×2.5	1.0	1.5	10.5~13.5	7×1.5	0.8	2.0	13.0~16.5
3×1.0	0.6	1.5	8.4~10.5	7×2.5	1.0	2.0	15.5~19.0
3×1.5	0.8	1.5	9.5~12.0	12×1.0	0.6	2.0	14.0~17.5
3×2.5	1.0	1.5	11.5~13.5	12×1.5	0.8	2.5	18.0~21.5
4×1.0	0.6	1.5	9.0~11.0	12×2.5	1.0	2.5	21.0~25.5
4×1.5	0.8	1.5	10.5~13.0				

环境条件 Ambient condition

- 1、环境温度：-20℃~55℃；
- 2、能在煤尘、瓦斯、油污等严酷环境下使用。
- 1、Ambient temperature: -20℃~55℃；
- 2、It can be used in the abominable environment with coal dust、gas、greasy dirty and so on.

0.66/1.14kV 煤矿用移动屏蔽橡套软电缆 (MT818.1-2009 XH044-2011))
Shifting Shield Rubber Sheathed Flexible Cable for 0.66/1.14kV. (MT818.1-2009 XH044-2011)

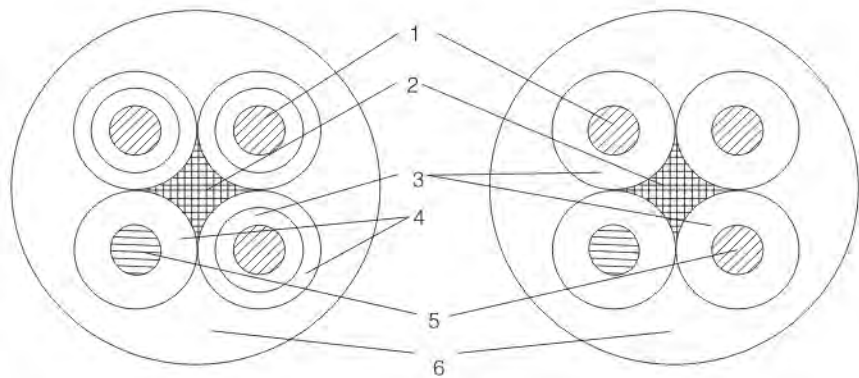
型号、名称、用途及规格尺寸 Model, name, usage, specification size

表1 Table1

型号 Model	名称 Name	用途 Usage
MY-0.38/0.66	煤矿用移动橡套软电缆 Shifting rubber sheath cable used in the mines	额定电压为0.38/0.66kV各种井下移动采煤设备的电源连接 Rated voltage 0.38/0.66kV for various coal-mining equipments to connect power supply in the mines
MYP-0.66/1.14	煤矿用移动屏蔽橡套软电缆 Shifting shield rubber sheath flexible cable used in the mines	额定电压为0.66/1.14kV各种井下移动采煤设备的电源连接 Rated voltage 0.66/1.14kV for various coal-mining equipments to connect power supply in the mines

执行标准和产品结构图 Standards and product structure

- 1、执行标准：MT818.9-2009
- 1、Standards:MT818.9-2009
- 2、产品结构图：
- 2、Product structure:



MYP-0.38/0.66 MYP-0.66/1.14

MY-0.38/0.66

- 1- 动力线芯导体；2-填充；3-绝缘；4-半导电层；5-地线芯导体；6-护套
1-Power core conductor；2-Filler；3-Insulation；4-Semi-conducting layer
5-Ground core conductor；6-Sheathing

工作条件 Working conditions

- 1、额定电压U₀/U分别为0.38/0.66kV、0.66/1.14kV；
- 2、电缆的最小弯曲半径为电缆直径的6倍；
- 3、电缆地线芯应良好接地。
- 4、电缆导体的长期允许工作温度为90℃。
- 1、Rated voltage is 0.38/0.66kV or 0.66/1.14kV.
- 2、The minimum bending radius of cable is 6 times as much as its diameter.
- 3、The ground core of cable must be earthed well.
- 4、Long-term permissible working temperature of cable conductor is 90℃.

主要技术参数和性能 Main parameters and performance

1、技术规格参数见表2、表3、表4
1、Technical parameter (see table 2-4)

额定电压0.38/0.66kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 0.38/0.66kV 表2 Table2

芯数×导体标称截面 Cores No. × conductor nominal section(mm²)		标称厚度 Nominal thickness(mm)		电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation (mm)	护套 Sheath	MY-0.38/0.66
3×185	1×50	2.4	6.0	67.5~76.2

注：地线芯截面为最小截面。
Note: Ground core section is the smallest cross section

额定电压0.66/1.14kV电缆尺寸参数 Specification size parameter of the cable of rated voltage is 0.66/1.14kV 表3 Table3

芯数×导体标称截面 Cores No. × conductor nominal section(mm²)		标称厚度 Nominal thickness(mm)		电缆外径 Cable outer dia(mm)
动力线芯 Power core	地线芯 Ground core	动力线芯绝缘 Power core insulation (mm)	护套 Sheath	MY-0.38/0.66
3×185	1×50	2.6	6.0	69.7~77.8

电缆20℃时绝缘电阻达到表4的规定 Insulation resistance reach table 4 standards at 20℃.

绝缘电阻 Insulation resistance 表4 Table4

标称截面 mm² Nominal section(mm²)	20℃时绝缘电阻最小值MΩ·km The minimum value of insulation resistance at 20℃.(M Ω·KM)
185	180

电缆20℃时导体直流电阻达到表5的规定 Insulation resistance reach table 5 standards in 20℃.

绝缘电阻 Insulation resistance 表5 Table5

标称截面 mm² Nominal section(mm²)	20℃时导体直流电阻最小值MΩ·km The minimum value of conductor's DC resistance at 20℃.(M Ω·KM)
185	0.108

环境条件 Ambient condition

- 环境温度：-20℃~55℃；
- 能在煤尘、瓦斯、油污等严酷环境下使用。
- Ambient temperature: -20℃~55℃；
- It can be used in the abominable environment with coal dust、gas、greasy dirty and so on.

1.8/3kV 及以下矿用聚氯乙烯绝缘电力电缆（MT818.12-2009）
1.8/3kV PVC Insulated Power Cable for Mining Purpose.（MT818.12-2009）

用途 Application

- 1.1 本产品为矿用额定电压10KV及以下固定敷设用电缆，适用于煤矿井下的电力传输。
1.1 This product is for fixed layout, it is the cable of rated voltage up to and including 10kV for mining purpose, applicable for power transmission under mining well.

使用条件 Conditions of usage

- 2.1 线芯长期允许工作温度为65℃，电缆敷设温度不低于0℃，电缆允许最小弯曲半径为5（D+d）±5%
2.1 Long-time allowable working temperature of conductor is 65℃,the temperature for cable layout is not lower than 0℃,allowable min bending radius of cable is 15(D+d)±5%

型号，名称(见表1) Model and name(see table 1)

表1Table1

型号 Model	名称 Name
MVV	矿用聚氯乙烯绝缘聚氯乙烯护套电力电缆 PVC insulated and sheathed power cable for mining purpose
MVV22	矿用聚氯乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 PVC insulated and sheathed & steel tape armoured power cable for mining purpose

规格尺寸、主要性能(见表2-3) Specification size and main property(see table 2-3)

表2 table 2

型号 Model	芯数 Core No.	额定电压（kv） Rated voltage(kV)	
		0.6/1	1.8/3
		标称截面（mm²） Nominal section(mm²)	
MVV	3	1.5~300	10~300
MVV22	3	2.5~300	10~300
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

技术要求 Deliver requirements

电缆的标称绝缘厚度应符合表3规定。

表3 table 3

导体标称截面 (mm²) Nominal section of conducto(mm²)	额定电压 (kv) Rated voltage(kV)		导体标称截面 (mm²) Nominal section of conductor(mm²)	额定电压 (kv) Rated voltage(kV)	
	0.6/1	1.8/3		0.6/1	1.8/3.3
	绝缘标称厚度 (mm) Nominal insulation(mm)			绝缘标称厚度 (mm) Nominal insulation(mm)	
1.5	0.8	—	50	1.4	2.2
2.5	0.8	—	70	1.4	2.2
4	1.0	—	95	1.6	2.2
6	1.0	—	120	1.6	2.2
10	1.0	2.2	150	1.8	2.2
16	1.0	2.2	185	2.0	2.2
25	1.2	2.2	240	2.2	2.2
35	1.2	2.2	300	2.4	2.4

8.7/10kV及以下煤矿用交联聚乙烯绝缘电力电缆 (MT818.13-2009)
XLPE Insulated Power Cable of Rated Voltage 8.7/10kV and Below for Mining Purpose (MT818.13-2009)

用途 Application

1.1 本产品为煤矿用额定电压10KV及以下固定敷设用电缆，适用于煤矿井下的电力传输。
1.1 This product is for fixed layout, it is the cable of rated voltage up to and including 10kV for mining purpose, applicable for power transmission under mining well.

使用条件 Conditions of usage

2.1 线芯长期允许工作温度为90℃，电缆敷设温度不低于0℃，电缆允许最小弯曲半径为5 (D+d) ±5%
2.1 Long-time allowable working temperature of conductor is 90℃,the temperature for cable layout is not lower than 0℃,allowable min bending radius of cable is 15(D+d)±5%.

型号，名称(见表1) Model and name(see table 1) 表1Table1

型号 Model	名称 Name
MYJV	煤矿用交联聚乙烯绝缘聚氯乙烯护套电力电缆 XLPE insulated and sheathed power cable for mining purpose
MYJV22	煤矿用交联聚乙烯绝缘钢带铠装聚氯乙烯护套电力电缆 XLPE insulated and sheathed & steel tape armoured power cable for mining purpose
MYJV32	煤矿用交联聚乙烯绝缘细钢丝铠装聚氯乙烯护套电力电缆 XLPE insulated and sheathed & thin steel wire armoured power cable for mining purpose
MYJV42	煤矿用交联聚乙烯绝缘粗钢丝铠装聚氯乙烯护套电力电缆 XLPE insulated and sheathed & thick steel wire armoured power cable for mining purpose

规格尺寸(见表2) Specification size(see table 2) 表2Table2

型号 Model	芯数 Core No.	额定电压 (kV) Rated voltage(kV)			
		0.6/1	1.8/3	3.6/6、6/6	6/10、8.7/10
		标称截面 (mm²) Nominal section(mm²)			
MYJV	3	1.5~300	10~300	25~300	25~300
MYJV22	3	2.5~300	10~300	25~300	25~300
MYJV32	3	16~300	16~300	25~300	25~300
MYJV42	3	50~300	50~300	50~300	50~300
MYJV	3+1	4~300	10~300	-	-
MYJV22	3+1	4~300	10~300	-	-
MYJV	4	4~185	4~185	-	-
MYJV22	4	4~185	4~185	-	-

技术要求 Deliver requirements

电缆的标称厚度应符合表3规定。 表3Table3

导体标称截面(mm²) Nominal section of conductor(mm²)	额定电压 (kV) Rated voltage(kV)				
	0.6/1	1.8/3	3.6/6	6/6、6/10	8.7/10
	标称截面 (mm²) Nominal section(mm²)				
1.5	0.7	-	-	-	-
2.5	0.7	-	-	-	-
4	0.7	-	-	-	-
6	0.7	-	-	-	-
10	0.7	2.0	2.5	3.4	-
16	0.7	2.0	2.5	3.4	-
25	0.9	2.0	2.5	3.4	4.5
35	0.9	2.0	2.5	3.4	4.5
50	1.0	2.0	2.5	3.4	4.5
70	1.1	2.0	2.5	3.4	4.5
95	1.1	2.0	2.5	3.4	4.5
120	1.2	2.0	2.5	3.4	4.5
150	1.4	2.0	2.5	3.4	4.5
185	1.6	2.0	2.5	3.4	4.5
240	1.7	2.0	2.6	3.4	4.5
300	1.8	2.0	2.8	3.4	4.5

煤矿用阻燃通信电缆 (MT818.14-1999)
Flame Retardant Communication Cable for Mining Purpose (MT818.14-1999)

工作条件 Operating condition

电缆使用环境温度-40℃~+50℃	Service environment temperature for cable:-40℃~+50℃
在25℃时的湿度≤95%	Humidity at 25℃:≤95%
电缆敷设温度≥-10℃	Temperature for cable layout≥-10℃
电缆敷设时弯曲半径	Bending radius during cable laying
MHYV型电缆≥10倍电缆外径	MHYV cable ≥10 times of cable OD
其余型号电缆≥15倍电缆外径	Other models ≥15 times of cable OD

命名代号 Naming code

煤矿用通信电缆 Communication cable for mining purpose.....MH(HU)	铜质线芯 Copper conductor.....省略 Omit
聚乙烯绝缘 PE insulation.....Y	铝-聚乙烯粘结护层 Al-PE sheath clung.....A
聚乙烯内护套 PE inner sheath.....省略 Omit	钢丝编织铠装 Steel wire knitted and armored.....B
阻燃聚氯乙烯护套 Anti-flaming PVC sheath.....V	钢丝铠装阻燃聚氯乙烯护套 Steel wire armored and anti-flaming
钢铜加强线芯 Steel-copper reinforced coreJ	PVC outer sheath.....32

电缆型号、名称及运用场合 Model, name and usage

型号 Model	名称 Name	用途 Usage
MHYV	煤矿用聚乙烯绝缘及聚氯乙烯护套通信电缆 PE insulated and PVC sheathed anti-flaming communication for mining purpose	用于平巷、斜巷及机电硐室 For drift, inclined shaft and mechanical-electrical underground chamber
MHJYV	煤矿用加强型线芯聚乙烯绝缘及聚氯乙烯护套通信电缆 PE insulated and PVC sheathed anti-flaming reinforced communication for mining purpose	用于机械损伤较高的平巷和斜巷 For drift, inclined shaft and have good tensile strength
MHYBV	煤矿用聚乙烯绝缘镀锌钢丝编织铠装聚氯乙烯护套通信电缆 PE insulated, galvanized steel wire knitted and armored, PVC sheathed anti-flaming reinforced communication for mining purpose	用于机械冲击较高的平巷和斜巷 For drift, inclined shaft that subject to high mechanical impact
MHYAV	煤矿用聚乙烯绝缘铝-聚乙烯粘结护层聚氯乙烯护套通信电缆 PE insulated, Al/PE sheath clung, PVC sheathed anti-flaming communication cable for mining purpose	用于较潮湿的斜井和平巷通信线 As communication wire, applicable for moist inclined shaft and drift
MHYA32	煤矿用聚乙烯绝缘铝-聚乙烯粘结护层钢丝铠装聚氯乙烯护套通信电缆 Insulated, Al/PE sheath clung, galvanized steel wire knitted and armored, PVC sheathed anti-flaming communication cable for mining purpose	用于煤矿竖井或斜井通信线 As communication wire, applicable for inclined shaft or vertical shaft

技术参数 Technological Property

矿用通信电缆外径(mm) OD of communication cable for mining purpose(mm)

规格 对数×根数×导体直径 Pair×strand No.×Dia. of conductor	MHYV(HUYV)	MHYJV(HUYJV)
1×2×7/0.28	7.1	7.1
4×1×7/0.28	7.3	7.3
5×2×7/0.28	11.3	11.3
10×2×7/0.28	-	-

规格 对数×根数×导体直径 Pair×strand No.×Dia. Of conductor	MHYBV(HUYBV)	MHYAV(HUYAV)	MHYA32(HUYA32)
3×2×0.8	—	14	—
5×2×0.8	15.3	16	28
10×2×0.8	17.6	18.5	22
20×2×0.8	21.4	20	24
30×2×0.8	25.58	25	26
50×2×0.8	30.2	29	33
80×2×0.8	—	36	39

规格 对数×根数×导体直径 Pair×strand No.×Dia. Of conductor	MHYBV(HUYBV)	MHYAV(HUYAV)	MHYA32(HUYA32)
1×2×0.8	—	9	—
1×2×0.8	—	10	—
5×2×0.8	14	15	17
7×2×0.8	—	16	—
10×2×0.8	16	19	23
14×2×0.8	—	21	—
20×2×0.8	20	24	28
30×2×0.8	24	29	32
50×2×0.8	29	39	44

主要电气性能 Main electrical performance

项目 Item	单位 Unit	MHYV	MHYJV	MHYBV,MHYAV,MHYA32	
		7/0.28	7/0.28	1/0.8	1/1.0
20℃导线直流电阻 DC resistance of conductor at 20℃	Ω/km	≤45	≤73	≤36.7	≤25.8
固有衰减(800~1000Hz) Natural attenuation(800~1000Hz)	dB/km	≤1.1	≤1.3	≤0.95	≤0.7
20℃导线绝缘电阻 Insulation resistance of conductor at 20℃	M Ω/km	≥3000			
对线组工作电容(800~1000Hz) Working capacitance of line pair(800~1000Hz)	uF/km	≤0.06			
两端线芯间远端串音衰减(800~1000Hz) Far-end crosstalk attenuation(800~1000Hz)	dB/km	≥70			
电感(800~1000Hz) Inductance(800~1000Hz)	UH/km	≤800			
耐交流工频电压 Withstand AC power frequency voltage	—	1.5kV/1min 通过			
电流电阻差 Difference of current and resistance	—	≤环阻的2%			

产品分类和命名 Product Classification and Assign Name

1.电缆系列代号: 船用电力电缆 船用通信电缆 船用控制电缆 船用电线	C CH CK CB	1.Code for cable series: Shipboard power cable Shipboard telecommunication cable Shipboard control cable Shipboard electric wire
2.绝缘代号: 乙丙橡胶绝缘 天然丁苯绝缘 聚氯乙烯绝缘 交联聚乙烯绝缘	E X V J	2.Code for insulation: EPR insulation NR+SBR insulation PVC insulation XLPE insulation
3.护套代号: 氯丁橡胶护套 交联聚烯烃护套(热固型) 聚烯烃护套(热塑型) 聚氯乙烯护套 氯 磺化聚乙烯护套	F PJ PF V H	3.Code for sheath PCP sheath Cross-linked PO sheath(SHF2) PO sheath(SHF1) PVC sheath CSP sheath
4.铠装及外护套代号: 镀锡(或不镀锡)铜丝编织 镀锌钢丝编织 无外护套 聚氯乙烯外护套 交联聚烯烃外护套(热固型) 聚烯烃外护套(热塑型)	8 9 0 2 5 6	4.Code for armour and outer sheath Tinned copper(or no tinned copper)wire braided Galvanized steel wire braided No outer sheath PVC outer sheath Crossed-linked PO outer sheath(SHF2) PO outer sheath(SHF1)
5.其它结构代号: 导电线芯为软结构 绝缘线芯或线对屏蔽	R P	5.Code for other construction Flexible conductor with construction Wire or twisted pair with individual shield
6.燃烧特性代号: 单根阻燃 成束阻燃 成束阻燃低烟无卤低毒 耐火 耐火低烟无卤低毒	DA SA SC NA NC NSC	6.Code for flammability Single cable flame retardant Bunched cable flame retardant Bunched cable flame retardant,halogen-free,low-smoke,low-toxicity Fire-resistant cable Fire-resistant cable halogen-free,low-smoke,low-toxicity