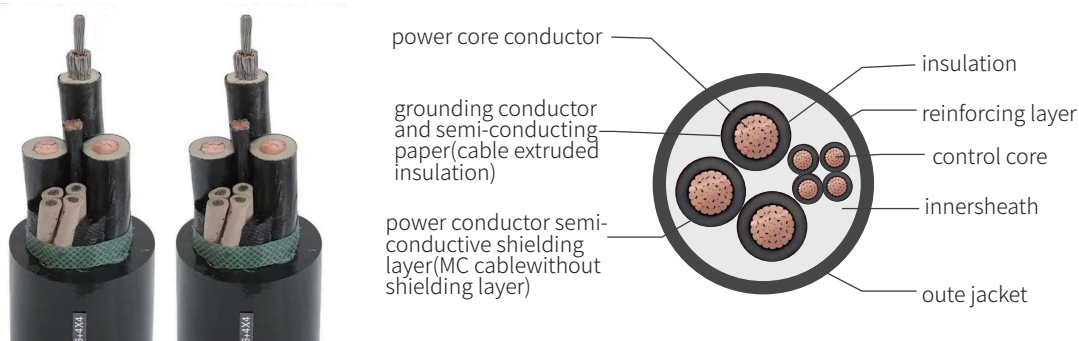


Coal mining machine flexible cable



Product Description

MT818.2-2009<Mine Cable part 2:Coal winning machine flexible cable
Rated voltage 1.9/3.3kv and below

Working Condition

Rated Voltage U_0/U is 0.38/0.66kV, 0.66/1.14kV and 1.9/3.3kV respectively.
Max. working temperature of cable conductor is 65°C.
The bending radius of cable should be no less than 6 times of its external diameter.
The earth wire should be at good condition.

Type	Name	Properties
MC-0.38/0.66	Rubber Flexible Cable for Coal Winning Machine	Wires for connecting coal winning machine and the similar equipments of rated voltage 0.38/0.66KV.
MCP-0.38/0.66	Screened Rubber Flexible Cable for Coal Winning Machine	Wires for connecting coal winning machine and the similar equipments of rated voltage 0.38/0.66kV.
MCP-0.66/1.14	Screened Rubber Flexible Cable for Coal Winning Machine	Wires for connecting coal winning machine and the similar equipments whose rated voltage is 0.66/1.14kV.
MCP-1.9/3.3	Screened Rubber Flexible Cable for Coal Winning Machine	Wires for connecting coal winning machine and the similar equipments of rated voltage 1.9/3.3kV.

APPLICATIONS

The product is applicable to coal winning machine and the similar equipments of Rated voltage 1.9/3.3kv and below.

Cable dimensions of rated voltage 0.38/0.66kV

Core×Conductor Nom.Area mm ²		Nom.Thickness mm		Overall Diameter mm	
Power core	Earth wire	Power core insulation	Jacket	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

Dimensions of cable rated voltage 0.66/1.14kV

Core×Conductor Nom.Area mm ²			Nom.Thickness mm			Overall Diameter mm	
Power core	Earth wire		Power core Insulation	Jacket		MCP-0.66/1.14	
	Model A	Model B		Model A	Model B	Model A	Model B
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

Dimensions of cable rated voltage 1.9/3.3kV

Core×Conductor Nom.Area mm ²			Nom.Thickness mm			Overall Diameter mm	
Power core	Earth wire		Power core insulation	Jacket		MCP-0.66/1.14	
	Model A	Model B		Model A	Model B	Model A	Model B
3×25	1×10	—	2.8	6.0	—	44.5-51.0	—
3×35	1×10	3×10/3	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

Conductor DC Resistance at 20°C

Conductor Nom. Area mm ²	Max. DC resistance at 20°C Ω /km	Conductor Nom. Area mm ²	Max. DC resistance at 20°C Ω /km
2.5	8.21	35	0.565
4	5.09	50	0.393
6	3.39	70	0.277
10	1.95	95	0.21
16	1.24	120	0.164
25	0.795	150	0.132

Insulation Resistance at 20°C

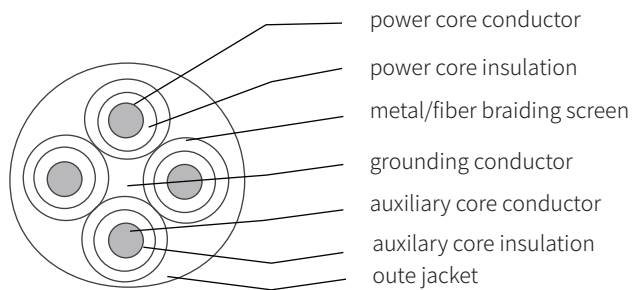
Core Type	Nom. Area mm ²	Min insulation resistance at 20°C Ω /km	
		Rated voltage up to 0.66/1.14kV	Rated voltage 1./3.3kV
Power core	16	350	—
	25	300	450
	35	250	400
	50	250	350
	70	200	300
	95	200	250
	120	200	250
	150	180	250
Control core	2.5/4/6/10	100	100

Power Frequency Test

Cable isolated power core could endure power frequency test specified by the following table and has no breakdown.

U ₀ /U Rated Voltage (kV)	Test Voltage (Virtual Value) (kV)	Duration (min)
0.38/0.66	3.0	5
0.66/1.14	3.7	
1.9/3.3	6.8	

Metal Screened Flexible Cable for Coal Winning Machine of Rated Voltage 1.9/3.3kV and below



MCPTJ-0.66/1.14 MCPTJ-1.9/3.3

Type	N a m e	Properties
MCPT-0.66/1.14	Metal screened flexble rubber Cable for coal winning machine	Wires forconnecting coal winning machine and the simila equipments of rated voltage 0.66/1.14kV
MCPTJ-0.66/1.14	Metal screened flexible rubber Cable for coal winning machine	
MCPT-1.9/3.3	Metalscreened flexible rubber Cable for coal winning machine	Wires for connecting coalwinning machine andthe similar equipments of ratedvoltage 1.9/3.3kV
MCPTJ-1.9/3.3	Metalscreenedflexible rubber Cable for coal winning machine	

Dimensions of cable rated voltage 0.66/1.14kV

Core×Conductor Nom.Area mm ²			Nom.Thickness mm		Overal Diameter mm	Max.Parallel DC Resistance between earth wire and shield at 20℃ Q/km
Power core	Earth wire	Control core	Power core insulation	Jacket	MCPT-0.66/1.14	
3×25	1×16	3×4	1.5	5	39.7-42.9	0.56
3×35	1×16	3×4	1.6	5	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	0.3
3×95	1×50	3×6	2	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

Dimensions of cable rated voltage 0.66/1.14kV

Core×Conductor Nom.Aea mm ²			Nom.Thickness mm		Overall Diameter mm	Max.Parallel DC Resistance between earth wire and shield at 20°C Ω /km
Power core	Earth wire	Auxiliarycore	Power core Insulation	Jacket	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

Dimensions of cable rated voltage 1.9/3.3kV

Core×Conductor Nom.Aea mm ²			Nom.Thickness mm		OverallDia meter mm	Max.Parallel DC Resistance between earth wire and shield at 20°C Ω /km
Power core	Earth wire	Control core	Power core insulation	Jacket	MCPT-1.9/3.3	
3×25	1×16	3×4	3.0	5.1	47.7–49.9	0.50
3×35	1×16	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

Dimensions of cable rated voltage 1.9/3.3kV

Core×Conductor Nom.Area mm ²			Nom.Thickness mm		Overall Diameter mm	Max.Parallel DC Resistance between earth wire and shield at 20°C Ω /km
Power core	Earth wire	Control core	Power core insulation	Jacket	MCPTJ-1.9/3.3	
3×25	1×16	3×4	3.0	5.1	47.7–49.9	0.50
3×35	1×16	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

Conductor DC Resistance at 20°C

Conductor Nom.Area mm ²	Max.DC resistance at 20°CΩ/km	Conductor Nom. Area mm ²	Max.DC resistance at 20°C Ω /km
2.5	8.21	35	0.565
4	5.09	50	0.393
6	3.39	70	0.277
10	1.95	95	0.210
16	1.24	120	0.164
25	0.795	150	0.132

Insulation Resistance at 20°C

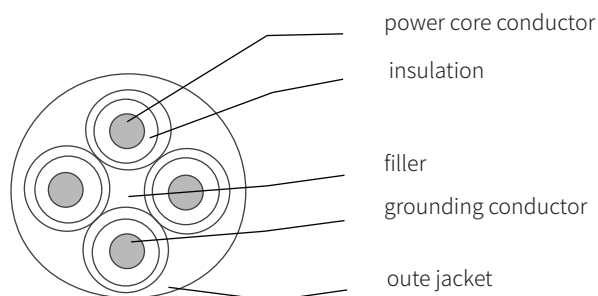
Core Type	Nom.Area mm ²	Min.insulation resistance at 20°Cn/km	
		Rated Voltage up to 0.66/1.14kV	Rated voltage 1.9/3.3KV
Power core	16	350	1150
	25	300	980
	35	260	850
	50	230	740
	70	210	630
	95	200	550
	120	200	510
	150	180	450
Controlcore	04/6/10	100	100

Power Frequency Test

Cable isolated power core could endure power frequency test specified by the following table and has no breakdown:

U0/U Rated Voltage (KV)	Test voltage (Virtual value)(kV)	Duration(min)
0.38/0.56	3.0	5
0.66/1.14	3.7	
1.9/3.3	6.8	

Mobile Flexible Cable of Rated Voltage 0.66/1.14kV And Below



MY-0.38/0.66

Type	Name	Properties
MY-0.38/0.66	Mobile flexible rubber Cable for coalmine	Wires for connecting various undermine mobile coal minng equipments of rated voltage 0.38/0.66kv
MYP-0.38/0.66	Mobile flexible screened rubber cable for coal mine	
MYP-0.6/1.14	Mobile flexible screened rubber cable for coal mine	Wres for connecting various undermine mobile coal mining equipments of rated voltage 0.66/1.14kv

Dimensions of cable rated voltage 0.38/0.66kV

Core×Conductor Nom.Area mm ²	Nom.Thickness mm		Overall Diameter mm
	Power core insulation	Jacket	MY_0.38/0.66
1×4	1.4	1.5	8.0-10.0
1×6	1.4	1.6	9.0-12.0
1×10	1.6	1.8	11.0-14.0
1×16	1.6	1.9	12.0-15.0
1×25	1.8	2.0	14.0-17.5
1×35	1.8	2.2	16.0-19.5
1×50	2.0	2.4	18.5-22.5
1×70	2.0	2.6	21.0-25.0
1×95	2.2	2.8	23.5-28.5
1×120	2.2	3.0	25.5-29.5
1×150	2.4	3.2	28.0-33.0
1×185	2.4	3.4	30.5-35.5
1×240	2.6	3.5	34.0-39.5
1×300	2.6	3.6	37.0-43.0
1×400	2.8	3.8	42.0-48.0

Dimensions of cable rated voltage 0.38/0.66kV

Core×Conductor Nom.Area mm ²		Nom.Thickness mm		Overall Diameter mm	
Power core	Earth wire	Power core insulation	Jacket	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	2.2	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

Dimensions of cable rated voltage 0.66/1.14kV

Core×Conductor Nom.Area mm ²		Nom.Thickness mm		Overall Diameter mm
Power core	Earth wire	Power core insulation	Jacket	MYP-0.38/0.66
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

ConductorDC resistance at 20°C

Conductor Nom.Area mm ²	Max.DC resistance at20°C Ω /km	Conductor Nom. Area mm ²	Max.DC resistance at20°C Ω /km
4	5.09	95	0.210
6	3.39	120	0.164
10	1.95	150	0.132
16	1.24	185	0.108
25	0.795	240	0.0817
35	0.565	300	0.0654
50	0.393	400	0.0495
70	0.277	—	—

ConductorDC resistance at 20°C

Power Core Nom.Area mm ²	Min.Insulation Resistance at20C Ω /km	Power Core Nom.Area mm ²	Min.Insulation Resistance at20°C Q/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	—	—

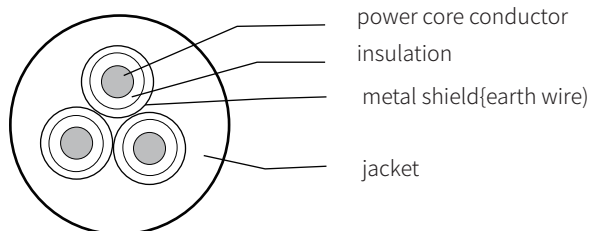
Power Frequency Test

Cable isolated power core could endure power

frequency tes specified by the following table and hasno breakdown:

U ₀ /U Rated Voltage(kV)	Test Voltage(Virtual Value)(kV)	Duration(min)
0.38/0.66	3.0	5
0.66/1.14	3.7	

Screened Mobile Flexible Cable of Rated Voltage 1.9/3.3kV And Below



Type	Name	Properties
MYPT-1.9/3.3	Metal Screened Mobile Flexible Rubber Cable for Coal Mine	Wires for connecting various undermine mobile coal mining equipments of rated voltage 1.9/3.3kV

Dimensions of cable rated voltage 1.9/3.3kV

Core×Conductor Nom.Area mm ²		Nom.Thickness mm		Overall Diameter mm
Power core	Earth wire	Power core insulation	Jacket	MCP-0.3B/0.66
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

Conductor DC Resistance at 20°C

Conductor Nom.Area mm ²	Max.DC resistance at 20°C Ω/km	Conductor Nom. Area mm ²	Max DC resistance at 20°C Ω /km
35	0.565	95	0.210
50	0.393	120	0.164
70	0.277	150	0.132

Insulation Resistance at 20°C

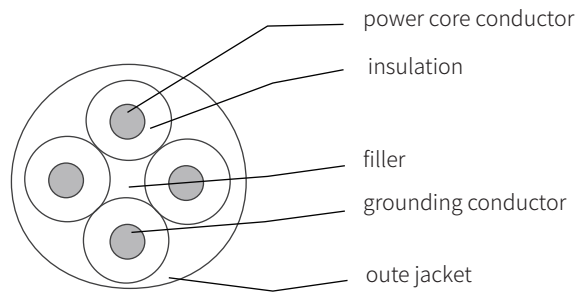
Power Core Nom.Area mm ²	Min.Insulation Resistance at 20°C Q/km	Power Core Nom.Area mm ²	Min.Insulation Resistance at 20°C Q/km
35	500	95	350
50	400	120	300
70	400	150	300

Power Frequency Test

Cable isolated power core could endure power frequency test specified by the following table and has no breakdown:

U ₀ /U Rated Voltage(kV)	Test Voltage(Virtual Value)(kV)	Duration(min)
1.9/3.3	6.8	5

Drill Cable for Coa Mine of Rated Voltage 0.3/0.5kV



Type	Name	Properties
MZ-0.3/5	Drill Rubber Cable for Coal Mine	Wires for connecting undermine drill switch of rated voltage 0.3/0.5kV and below
MZP-0.3/5	Screened Drill Rubber Cable for Coal Mine	

Dimensions of cable rated voltage 0.3/0.5kV

Core×Conductor Nom.Area mm ²			Conductor No./ single Wire Nom Diameter mm	Nom.Thickness mm		Overall Diameter mm	
Power core	Earth wire	control core		Power core Insulation	Jacket	MCP -0.38/0.66	MCP -0.38/0.66
3×2.5	1×2.5	—	77/0.20	1.0	3.5	16.5-19.5	19.5-23.0
3×4	1×4	—	126/0.20	1.0	3.5	17.5-21.5	21.0-24.5
3×2.5	1×2.5	1×2.5	77/0.20	1.0	3.5	17.5-21.0	21.0-24.5
3×4	1×4	1×4	126/0.20	1.0	3.5	19.0-23.0	22.5-26.5

Conductor DC resistance & insulation resistance at 20°C

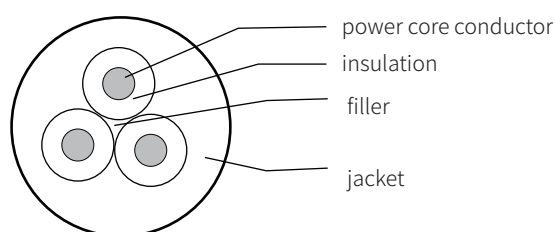
Conductor Nom.Area mm ²	Max.DC resistance at 20°C Ω /km	Min.insulation resistance at 20°C Ω /km
2.5	8.82	350
4	5.39	300

Power Frequency Test

Cable isolated power core could endure power frequency test specified by the following table and has no breakdown:

U ₀ /U Rated Voltage (kV)	Test Voltage (Virtual Value) (kV)	Duration (min)
0.3/0.5	2.0	5

Drill Cable for Coa Mine of Rated Voltage 0.3/0.5kV



Type	Name	Properties
MYQ-0.3/5	Mobile Light Flexible Rubber Cable for Coal Mine	Wires for connecting switches of undermine lighting, convey interlocking and signal controlling equipment

Cable Dimension Parameters

Core×Conductor Nom.Area mm ²	Nom.Thickness mm		overall Diameter mm	Core×Conductor Nom.Area mm ²	Nom Thickness mm		Overall Diameter mm
	Power core insulation	Jacket			Power core insulation	Jacket	
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				

Conductor DC resistance & insulation resistance at 20°C

Conductor Nom.Area mm ²	Max.DC resistance at 20°C Ω /km	Min.insulation resistance at 20°C MΩ/km
1.0	20.0	650
1.5	13.7	650
2.5	8.21	650

Power Frequency Test

Cable isolated power core could endure power frequency test specified by the following table and has no breakdown:

U ₀ /U Rated Voltage (kV)	Test Voltage (Virtual Value) (kV)	Duration (min)
0.3/0.5	2.0	5

XLPE Power Cable for Coal Mine of Rated Voltage 8.7/10kV And Below

Type	Name
MYJV	Copper Core XLPE Insulation PVC Sheath Power Cable for Coal Mine
MYJV22	Copper Core XLPE Insulation PVC Sheath steel Tape Armored Power Cable for Coal Mine
MYJV32	Copper Core XLPE Insulation PVC Sheath Steel Wire Armored Power Cable for Coal Mine
MYJV42	Copper Core XLPE Insulation PVC Sheath Thick Steel Wire Armored Power Cable for Coal Mine

Production Range

Type	Core No.	Rated voltage(KV)			
		0.6/1	1.8/3	3.6/6、6/6	6/10、8.7/10
		Nom.Area(mm ²)			
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	4-300	-	-
MYJV22	3+1	4-300	4-300	-	-
MYJV	4	4-185	4-185	-	-
MYJV22	4	4-185	4-185	-	-

Max.conductor DC resistance at 20°C should meet the requirement on class B conductor specified by GB/T3956

Conductor Nom.Area mm ²	Max.DC resistance at 20°C Ω /km	Conductor Nom. Area mm ²	Max.DC resistance at 20°C Ω /km
1.5	12.1	50	0.387
2.5	7.41	70	0.268
4	4.61	95	0.193
6	3.08	120	0.153
10	1.83	150	0.124
16	1.15	185	0.0991
25	0.727	240	0.0754
35	0.524	300	0.0601

Power Frequency Test

Rated voltage kv	0.6/1	1.8/3	3.6/6	6/6、6/10	8.7/10
Experimental voltage kv	3.5	6.5	12.5	21	30.5
Test conditions	Test Conditions: Under ambient temperature with duration 5min				
Test requirements	Test Requirement: Insulation has no breakdown.				

Partial Discharge Capacity

Total test partial discharge capacity under voltage 1.73 U₀, and the value should not be higher than:

Rated voltage kv	3.6/6	6/6、6/10	8.7/10
Partial Discharge pc	10		