

聚四氟乙烯薄膜绕包绝缘安装线 PTFE film wrapped insulated installation wire

产品用途

该系列产品具有外径小、重量轻、柔软、耐高温、耐油、阻燃和耐其它化学药品等优点，广泛应用于航空航天、仪器仪表、变压器、电源、通信电子、电气设备等线路的连接等。

Application

This series of products have characteristics of small outer diameter, light weight, flexible, high temperature resistant, oil resistant, flame retardant, and various chemical reagents, widely used in circuit connection of aerospace and other fields, such as instruments and apparatus, transformer, power supply, electronic communication and electrical equipments.

使用特性

- 1、额定电压：交流250V；
- 2、使用温度：-见表1。

Service property

- 1、Rated voltage should be a.c. 250V;
- 2、Operating temperature refer to table 1.

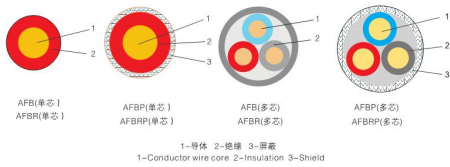
产品名称及型号 Type and description

名称及型号见表1：
Type and description refer to table 1:

表1 - 名称型号及使用温度
Table 1 - Type, description and operating temperature

型号 Type	名称 Description	使用温度 °C Operating temperature
AFB-100	铜芯PTFE薄膜绕包绝缘安装线 Copper core PTFE film wrapped insulated installation wire	-60~+100
AFBR-100	铜芯PTFE薄膜绕包绝缘安装软线 Copper core PTFE film wrapped insulated flexible installation wire	
AFBP-100	铜芯PTFE薄膜绕包绝缘镀锡铜线编织屏蔽安装线 Copper core PTFE film wrapped insulated tinned copper wire braided shielded installation wire	
AFBRP-100	铜芯PTFE薄膜绕包绝缘镀锡铜线编织屏蔽安装软线 Copper core PTFE film wrapped insulated tinned copper wire braided shielded flexible installation wire	
AFB-250	镀银铜芯PTFE薄膜绕包绝缘安装线 Silver plated copper core PTFE film wrapped insulated installation wire	-65~+250
AFBR-250	镀银铜芯PTFE薄膜绕包绝缘安装软线 Silver plated copper core PTFE film wrapped insulated flexible installation wire	
AFBP-250	镀银铜芯PTFE薄膜绕包绝缘镀银铜线编织屏蔽安装线 Silver plated copper core PTFE film wrapped insulated silver plated copper wire braided shielded installation wire	
AFBRP-250	镀银铜芯PTFE薄膜绕包绝缘镀银铜线编织屏蔽安装软线 Silver plated copper core PTFE film wrapped insulated silver plated copper wire braided shielded flexible installation wire	

产品结构示意图 Structure diagram



基本电缆规格和结构参数 Cable specification and structural parameter

1. 导体结构及直流电阻见表2:
Conductor and dc resistance refer to table 2:

表2 - 导体结构及直流电阻
Table 2 - Conductor structure and dc resistance

芯数×标称截面 Number of cores × nominal cross-section area mm ²	标准导体 Standard conductor		软导体 Flexible conductor	
	导体结构规格/截面/mm ² Conductor structure number of wires/diameter	20°C时导体直流电阻 ≤ Ω/km Conductor maximum DC resistance at 20°C 铜芯/铜绞 Copper/Silver plated	导体结构规格/截面/mm ² Conductor structure number of wires/diameter	20°C时导体直流电阻 ≤ Ω/km Conductor maximum DC resistance at 20°C 铜芯/铜绞 Copper/Silver plated
1×0.014	-	-	7/0.05	1370 1343
1×0.035	-	-	7/0.08	536 525
1×0.05	-	-	10/0.08	375 368
1×0.06	7/0.10	343 336	12/0.08	312 306
1×0.07	-	-	14/0.08	268 259
1×0.08	7/0.12	232 227	16/0.08	234 229
1×0.10	-	-	21/0.08	179 175
1×0.12	7/0.15	149 146	24/0.08	156 153
1×0.15	19/0.10	124 121	30/0.08	125 122
1×0.20	19/0.12	85.2 83.5	42/0.08	89.1 87.2
1×0.30	-	-	60/0.08	66.6 63.6
1×0.35	19/0.15	54.6 53.4	75/0.08	53.5 52.3
1×0.40	19/0.16	47.8 46.9	85/0.08	44.5 43.6
1×0.50	19/0.18	37.8 37.1	105/0.08	35.7 34.9
2×0.014	-	-	7/0.05	1397 1370
2×0.035	-	-	7/0.08	547 536
2×0.05	-	-	10/0.08	383 376

续上表 Continued

芯数×标称截面 Number of cores × nominal cross-section area mm ²	标准导体 Standard conductor		软导体 Flexible conductor	
	导体结构规格/截面/mm ² Conductor structure number of wires/diameter	20°C时导体直流电阻 ≤ Ω/km Conductor maximum DC resistance at 20°C 铜芯/铜绞 Copper/Silver plated	导体结构规格/截面/mm ² Conductor structure number of wires/diameter	20°C时导体直流电阻 ≤ Ω/km Conductor maximum DC resistance at 20°C 铜芯/铜绞 Copper/Silver plated
2×0.06	7/0.10	350 343	12/0.08	318 312
2×0.07	-	-	14/0.08	274 267
2×0.08	-	237 232	16/0.08	239 234
2×0.10	7/0.12	-	21/0.08	183 179
2×0.12	7/0.15	152 149	24/0.08	159 156
2×0.15	19/0.10	127 124	30/0.08	128 125
2×0.20	19/0.12	86.9 85.2	42/0.08	90.9 88.9
2×0.30	-	-	60/0.08	67.9 64.9
2×0.35	19/0.15	55.7 54.5	75/0.08	54.6 53.4
2×0.40	19/0.16	48.8 47.8	85/0.08	45.4 44.5
2×0.50	19/0.18	38.6 37.6	105/0.08	36.4 35.6
3×0.014	-	-	7/0.05	1397 1370
3×0.035	-	-	7/0.08	547 536
3×0.05	-	-	10/0.08	383 376
3×0.06	7/0.10	350 343	12/0.08	318 312
3×0.07	-	-	14/0.08	274 267
3×0.08	7/0.12	237 232	16/0.08	239 234
3×0.10	-	-	21/0.08	183 179
3×0.12	7/0.15	152 149	24/0.08	159 156
3×0.15	19/0.10	127 124	30/0.08	128 125
3×0.20	19/0.12	86.9 85.2	42/0.08	90.9 88.9
3×0.30	-	-	60/0.08	67.9 64.9
3×0.35	19/0.15	55.7 54.5	75/0.08	54.6 53.4
3×0.40	19/0.16	48.8 47.8	85/0.08	45.4 44.5
3×0.50	19/0.18	38.6 37.6	105/0.08	36.4 35.6

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2. 成品最大外径及重量见表3:
Finished cable maximum outer diameter and weight refer to table 3.

表3 - 成品最大外径及重量
Table 3 - Finished cable maximum outer diameter and weight

芯数×标称截面 Number of cores × nominal cross-section area mm ²	无屏蔽线最大外径 Maximum outer diameter of non-shielded wire		屏蔽线最大外径 Maximum outer diameter of shielded wire		无屏蔽线单位重量 kg/km Unit weight of non-shielded wire		屏蔽线单位重量 kg/km Unit weight of shielded wire	
	AFB	AFBR	AFBP	AFBRP	AFB	AFBR	AFBP	AFBRP
1×0.014	-	0.61	-	0.91	-	0.44	-	1.57
1×0.035	-	0.70	-	1.00	-	0.81	-	2.11
1×0.05	-	0.76	-	1.06	-	1.02	-	2.42
1×0.06	0.76	0.79	1.06	1.09	1.07	1.14	2.47	2.60
1×0.07	-	0.81	-	1.26	-	1.26	-	3.74
1×0.08	0.82	0.83	1.27	1.28	1.35	1.37	3.85	3.90
1×0.10	-	0.88	-	1.33	-	1.71	-	4.40
1×0.12	0.91	0.92	1.36	1.37	2.13	2.09	4.92	4.89
1×0.15	0.96	0.96	1.41	1.41	2.45	2.44	5.32	5.31
1×0.20	1.06	1.06	1.51	1.51	3.20	3.13	6.50	6.43
1×0.30	-	1.16	-	1.61	-	4.26	-	7.63
1×0.35	1.21	1.21	1.66	1.66	4.54	4.91	8.07	8.44
1×0.40	1.26	1.31	1.71	1.76	5.04	5.40	8.72	9.19
1×0.50	1.36	1.41	1.81	1.86	6.13	6.53	9.97	10.70
2×0.014	-	1.22	-	1.67	-	0.90	-	4.21
2×0.035	-	1.4	-	1.85	-	1.65	-	5.29
2×0.05	-	1.52	-	1.97	-	2.08	-	5.90
2×0.06	1.52	1.58	1.97	2.03	2.18	2.32	6.00	6.19
2×0.07	-	1.62	-	2.07	-	2.57	-	6.43
2×0.08	1.64	1.66	2.09	2.11	2.76	2.80	6.89	6.93
2×0.10	-	1.76	-	2.21	-	3.48	-	7.89
2×0.12	1.82	1.84	2.22	2.29	4.33	4.25	8.86	8.86
2×0.15	1.92	1.92	2.37	2.37	4.98	4.97	9.80	9.79
2×0.20	2.12	2.12	2.57	2.57	6.51	6.36	11.90	11.60
2×0.30	-	2.32	-	2.87	-	8.66	-	16.00
2×0.35	2.42	2.42	2.97	2.97	9.23	9.97	16.70	17.50
2×0.40	2.52	2.62	3.07	3.17	10.30	11.00	18.10	19.10
2×0.50	2.72	2.82	3.27	3.37	12.50	13.30	20.90	22.10
3×0.014	-	1.30	-	1.75	-	1.35	-	5.16
3×0.035	-	1.50	-	1.95	-	2.48	-	6.72
3×0.05	-	1.64	-	2.09	-	3.13	-	7.80
3×0.06	1.64	1.70	2.09	2.15	3.28	3.48	7.95	8.34
3×0.07	-	1.75	-	2.20	-	3.85	-	8.77

续上表 Continued

芯数×标称截面 Number of cores × nominal cross-section area mm ²	无屏蔽线最大外径 Maximum outer diameter of non-shielded wire		屏蔽线最大外径 Maximum outer diameter of shielded wire		无屏蔽线单位重量 kg/km Unit weight of non-shielded wire		屏蔽线单位重量 kg/km Unit weight of shielded wire	
	AFB	AFBR	AFBP	AFBRP	AFB	AFBR	AFBP	AFBRP
3×0.08	1.77	1.79	2.22	2.24	4.14	4.18	9.06	9.16
3×0.10	-	1.90	-	2.35	-	5.24	-	10.60
3×0.12	1.96	1.98	2.41	2.43	6.50	6.37	12.00	11.90
3×0.15	2.07	2.07	2.62	2.62	7.49	7.46	13.00	14.90
3×0.20	2.29	2.29	2.84	2.84	9.78	9.56	17.80	17.60
3×0.30	-	2.50	-	3.05	-	13.10	-	22.00
3×0.35	2.6	2.60	3.15	3.15	13.90	15.10	22.90	24.00
3×0.40	2.72	2.82	3.27	3.37	15.50	16.60	25.10	26.30
3×0.50	2.94	3.04	3.49	3.59	18.80	20.00	28.90	30.50

注：20°C时绝缘电阻不小于1500MΩ·km。
Note: Insulation resistance at 20°C should be not less than 1500MΩ·km.

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