

耐高温安装线 High temperature resistant installation wire

产品用途

适用于额定电压U0/U为450/750V及以下电机、电器、仪表和电子设备自热装置内布线用的镀锡或镀铜铜芯硅橡胶绝缘、铜芯或镀铜铜芯聚乙烯丙稀(F46)绝缘、镀锡或镀铜铜芯聚乙烯丙稀绝缘安装用电缆。

使用特性

1. 电缆的额定U0/U为300/500V、600V、450/750V；
2. 硅橡胶绝缘长期允许工作温度应不超过180℃；聚乙烯丙稀(F46)绝缘长期允许工作温度应不超过200℃；聚乙烯丙稀绝缘长期允许工作温度应不超过260℃。

Application

Suitable for internal wiring of motors, appliances, instruments, electronic equipments and automatic instrument equipment of rated voltage U0/U up to and including 450/750V, with tinned or silver plated copper core silicon rubber insulated, copper or tinned copper core PE/F46 insulated, tinned or silver plated copper core PTFE insulated installation cable and wire.

Service property

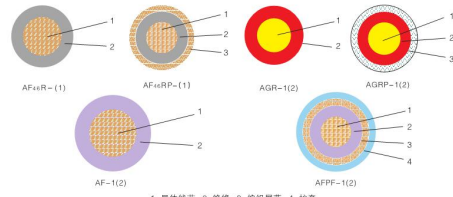
1. Rated voltage should be 300/500V, 600V, 450/750V;
2. Allowed long-term operating temperature of silicon rubber insulation should be no more than 180°C, of PE/F46 should be no more than 200°C, of PTFE insulation should be no more than 260°C.

产品名称及型号 Type and description

表1 - 名称及型号
Table 1 - Type and description

型号 Type	名称 Description
AF4e-R-1	镀锡圆铜芯聚乙烯丙稀(F46)绝缘安装用电缆 Tinned round copper core PTFE insulated installation wire
AF4e-RP-1	镀锡圆铜芯聚乙烯丙稀(F46)绝缘屏蔽软电缆 Tinned round copper core PTFE insulated shielded flexible installation wire
AF4e-R	铜芯聚乙烯丙稀(F46)绝缘软电缆 Copper core PTFE insulated flexible wire
AF4e-RP	铜芯聚乙烯丙稀(F46)绝缘屏蔽软电缆 Copper core PTFE insulated shielded flexible wire
AGR-1	镀锡圆铜芯硅橡胶绝缘安装用电缆 Tinned round copper core silicon rubber insulated flexible installation wire
AGR-1-1	镀锡圆铜芯硅橡胶绝缘屏蔽安装用电缆 Tinned round copper core silicon rubber insulated shielded flexible installation wire
AGR-2	镀锡圆铜芯硅橡胶绝缘安装用电缆 Tinned round copper core silicon rubber insulated flexible installation wire
AGR-2-1	镀锡圆铜芯硅橡胶绝缘屏蔽安装用电缆 Tinned round copper core silicon rubber insulated shielded flexible installation wire
AF-1	镀锡圆铜芯聚乙烯丙稀绝缘安装用电缆 Tinned round copper core PTFE insulated installation wire
AF-2	镀锡圆铜芯聚乙烯丙稀绝缘屏蔽安装用电缆 Tinned round copper core PTFE insulated shielded flexible installation wire
AFPF-1	镀锡圆铜芯聚乙烯丙稀绝缘屏蔽可溶性氟乙稀护套安装用电缆 Tinned round copper core PTFE insulated shielded flexible installation wire with PFA sheath
AFPF-2	镀锡圆铜芯聚乙烯丙稀绝缘屏蔽可溶性氟乙稀护套安装用电缆 Tinned round copper core PTFE insulated shielded flexible installation wire with PFA sheath

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

导体结构及其电阻率分别见表2、表3、表4。
Conductor structure and DC resistance refer to table 2, 3, 4 respectively.

标称截面 Nominal cross section area mm ²	导体结构 Conductor structure (mm)	绝缘标称厚度 Insulation nominal thickness (mm)		护套厚度 (mm)				电缆最大外径 (mm)		20℃时直流电阻 DC resistance at 20℃ Ω/km	
		AF4e-R-1 AF4e-R AF4e-RP-1 AF4e-RP	AGR-1 AGR-1 AGR-2 AGR-2	AF4e-R-1 AF4e-R AF4e-RP-1 AF4e-RP	AF4e-RP-1 AF4e-RP	AGR-1 AGR-2	AGR-1 AGR-2	铜芯 Copper	镀锡 Tinned	镀银 Silver plated	
0.2	19/0.12	0.30	0.5	1.32	1.32	1.76	2.26	-	-	90.4	83.5
0.5	16/0.20	0.35	0.6	1.65	1.65	2.5	3.0	39.0	40.1	-	-
0.75	24/0.25	0.35	0.7	1.90	1.90	3.0	3.5	26.0	26.7	-	-
1.0	32/0.20	0.35	0.7	2.05	2.05	3.2	3.7	19.5	20.3	-	-
1.5	30/0.25	0.40	0.8	2.45	2.45	3.7	4.2	13.3	13.7	-	-
2.5	49/0.25	0.45	0.9	3.00	3.00	4.4	4.9	7.98	8.21	-	-
4.0	56/0.30	0.50	1.2	3.60	3.60	5.9	6.4	4.95	5.09	-	-
6.0	84/0.30	0.55	1.2	4.40	4.40	7.0	7.5	3.30	3.39	-	-
16	119/0.41	-	1.4	-	-	9.2	9.7	1.91	1.95	-	-
25	189/0.41	-	1.4	-	-	10.1	10.6	1.21	1.24	-	-
35	294/0.39	-	1.6	-	-	12.5	13.0	0.780	0.795	-	-
50	374/0.41	-	1.6	-	-	13.7	14.2	0.554	0.565	-	-
70	518/0.41	-	1.8	-	-	15.9	16.3	0.388	0.395	-	-
95	703/0.41	-	2.0	-	-	17.8	18.2	0.270	0.284	-	-
95	703/0.41	-	2.0	-	-	20.4	20.7	0.205	0.208	-	-



表3 - AF-1, AF-2 聚乙烯丙稀绝缘安装用电缆结构尺寸
Table 3 - Structure dimension of AF-1, AF-2 PTFE insulated installation flexible wire

标称截面 Nominal cross section area mm ²	芯数 Number of cores	导体结构 Conductor structure (mm)	成品电缆外径 Finished cable outer diameter (mm)	20℃时直流电阻 = D/mm DC resistance at 20℃	
				镀锡 Tinned	镀银 Silver plated
0.14/0.12	1	7/0.15	0.97 ± 0.05	156	145
0.2	1	19/0.12	1.09 ± 0.05	90.4	83.5
0.4/0.3	1	19/0.16	1.25 ± 0.05	53.1	49.5
0.6/0.5	1	19/0.20	1.47 ± 0.05	32.4	30.2
0.75	1	19/0.23	1.66 ± 0.05	24.6	22.7
1.0	1	19/0.26	1.73 ± 0.05	20.4	19.0
1.5	1	19/0.32	2.19 ± 0.05	12.7	11.7
2.0	1	19/0.36	2.29 ± 0.05	10.0	9.45
2.5	1	37/0.30	2.72 ± 0.06	7.43	6.86
4.0	1	37/0.37	3.41 ± 0.10	4.88	4.51
6.0	1	37/0.45	4.25 ± 0.10	3.30	3.05

表4 - AFPF-1, AFPF-2 聚乙烯丙稀绝缘可溶性氟乙稀护套安装用电缆结构尺寸
Table 4 - Structure dimension of AFPF-1, AFPF-2 PTFE insulated PFA sheathed installation flexible wire

标称截面 Nominal cross section area mm ²	芯数 Number of cores	导体结构 Conductor structure (mm)	绝缘标称厚度 Insulation nominal thickness (mm)	护套厚度 (mm)		电缆最大外径 Max. cable outer diameter (mm)		20℃时直流电阻 = D/mm DC resistance at 20℃	
				最大 Max.	最小 Min.	镀锡 Tinned	镀银 Silver plated		
0.2	1	19/0.12	0.25	0.38	0.25	2.31	90.4	83.5	
0.4/0.3	1	19/0.16	0.25	0.38	0.25	2.47	53.1	49.5	
0.6/0.5	1	19/0.20	0.25	0.38	0.25	2.69	32.4	30.2	
0.75	1	19/0.23	0.3	0.38	0.25	2.88	24.6	22.7	
1.0	1	19/0.26	0.3	0.38	0.25	2.95	20.4	19.0	
1.5	1	19/0.32	0.3	0.38	0.25	3.41	12.7	11.7	
2.0	1	19/0.36	0.35	0.38	0.25	3.51	10.0	9.45	
2.5	1	37/0.30	0.35	0.38	0.25	3.97	7.43	6.86	
4.0	1	37/0.37	0.35	0.38	0.25	4.98	4.88	4.51	
6.0	1	37/0.45	0.35	0.38	0.25	5.82	3.30	3.05	
0.2	2	19/0.12	0.25	0.38	0.25	3.45	90.4	83.5	
0.4/0.3	2	19/0.16	0.25	0.38	0.25	3.77	53.1	49.5	
0.6/0.5	2	19/0.20	0.25	0.38	0.25	4.21	32.4	30.2	
0.75	2	19/0.23	0.3	0.38	0.25	4.89	24.6	22.7	
1.0	2	19/0.26	0.3	0.38	0.25	5.03	20.4	19.0	
1.5	2	19/0.32	0.3	0.38	0.25	5.95	12.7	11.7	
2.0	2	19/0.36	0.35	0.38	0.25	6.15	10.0	9.45	
0.2	3	19/0.12	0.25	0.38	0.25	3.83	90.4	83.5	
0.4/0.3	3	19/0.16	0.25	0.38	0.25	3.98	53.1	49.5	
0.6/0.5	3	19/0.20	0.25	0.38	0.25	4.45	32.4	30.2	

续上表Continued

标称截面 Nominal cross section area mm ²	芯数 Number of cores	导体结构 Conductor structure (mm)	绝缘标称厚度 Insulation nominal thickness (mm)	护套厚度 (mm)		电缆最大外径 Max. cable outer diameter (mm)		20℃时直流电阻 = D/mm DC resistance at 20℃	
				最大 Max.	最小 Min.	镀锡 Tinned	镀银 Silver plated		
0.75	3	19/0.23	0.3	0.38	0.25	5.16	24.6	22.7	
1.0	3	19/0.26	0.3	0.38	0.25	5.31	20.4	19.0	
1.5	3	19/0.32	0.3	0.38	0.25	6.31	12.7	11.7	
2.0	3	19/0.36	0.35	0.38	0.25	6.52	10.0	9.45	
0.2	4	19/0.12	0.25	0.38	0.25	3.93	90.4	83.5	
0.4/0.3	4	19/0.16	0.25	0.38	0.25	4.32	53.1	49.5	
0.6/0.5	4	19/0.20	0.25	0.38	0.25	5.15	32.4	30.2	
0.75	4	19/0.23	0.3	0.38	0.25	5.61	24.6	22.7	
1.0	4	19/0.26	0.3	0.38	0.25	5.78	20.4	19.0	
1.5	4	19/0.32	0.3	0.38	0.25	6.89	12.7	11.7	
2.0	4	19/0.36	0.35	0.38	0.25	7.13	10.0	9.45	
0.2	5	19/0.12	0.25	0.38	0.25	4.38	90.4	83.5	
0.4/0.3	5	19/0.16	0.25	0.38	0.25	4.82	53.1	49.5	
0.6/0.5	5	19/0.20	0.25	0.38	0.25	5.75	32.4	30.2	
0.75	5	19/0.23	0.3	0.38	0.25	6.26	24.6	22.7	
1.0	5	19/0.26	0.3	0.38	0.25	6.45	20.4	19.0	
1.5	5	19/0.32	0.3	0.38	0.25	7.69	12.7	11.7	
2.0	5	19/0.36	0.35	0.38	0.25	7.95	10.0	9.45	