

航空航天用镀银铜芯耐磨聚四氟乙烯绝缘电线电缆  
Silver-plated copper core abrasion resistant PTFE insulated electrical wire and cable for aerospace

**产品用途**  
本产品适用于交流额定电压600V及以下电器设备和仪器仪表连接用线以及航空航天飞行器布缆等。

**产品使用温度**  
-65℃~200℃

**产品执行标准**  
GJB773A/16A-2000

**Application**  
This product is applicable for electrical connection wire of equipments and instruments and aerospace vehicle wiring etc. of a.c. rated voltage up to and including 600V.

**Operating temperature**  
-65℃~200℃

**Executive standard**  
GJB773A/16A-2000

使用特性 Service property

项目名称 Item	技术指标 Technical index
电线电缆最薄处厚度 Electrical wire insulation minimum thickness	≥0.45mm
电缆屏蔽层密度 Cable braided shield density	≥85%
电线电缆电阻 Electrical wire insulation resistance	≥1.0 × 10 <sup>12</sup> MΩ·km
绝缘浸水电压 Insulation voltage when immersed in water	2.5kV/1min, no breakdown
电枝烟现象 Electrical wire smoke emission	(313±5)℃×15min, 无冒烟现象 (313±5)℃×15min, no smoke
电线电缆及电枝护套耐张强度 Tensile strength of electrical wire insulation and sheath	拉伸速度为50±5mm/min Tensile speed should be 50±5mm/min
A) 电枝绝缘 Electrical wire insulation	截面0.2~0.5mm <sup>2</sup> 时, ≥27.6N/mm <sup>2</sup> 截面0.75~20mm <sup>2</sup> 时, ≥24.2N/mm <sup>2</sup>
B) 电枝护套 Cable sheath	≥20.7N/mm <sup>2</sup> (H型)
电线电缆及电枝护套耐张伸长率 Elongation at break of cable insulation and sheath	拉伸速度为50±5mm/min Tensile speed should be 50±5mm/min
A) 电枝绝缘 Electrical wire insulation	截面0.2~8.0mm <sup>2</sup> 时, ≥100% 截面10~20mm <sup>2</sup> 时, ≥150%
B) 电枝护套 Cable sheath	≥200% (H型)

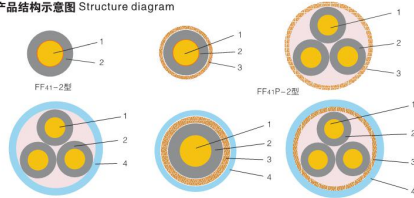
产品型号及名称 Type and description

型号 Type	名称 Description
FF+H-2	镀银铜芯耐磨PTFE绝缘电线电缆 Silver-plated copper core abrasion resistant PTFE insulated electrical wire and cable
FF+P+H-2	镀银铜芯耐磨PTFE绝缘镀银铜线编织屏蔽层航空电线电缆 Silver-plated copper core abrasion resistant PTFE insulated silver plated round copper wire braided shielded electrical wire and cable

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型号 Type	名称 Description
FF+P-1-2	镀银铜芯耐磨PTFE绝缘镀银铜线编织屏蔽层航空电线电缆 Silver-plated copper core abrasion resistant PTFE insulated nickel plated round copper wire braided shielded electrical wire and cable
FF+H-1-2	镀银铜芯耐磨PTFE绝缘EP护套电线电缆 Silver-plated copper core abrasion resistant PTFE insulated EP sheathed electrical wire and cable
FF+P+H-1-2	镀银铜芯耐磨PTFE绝缘镀银铜线编织屏蔽层EP护套电线电缆 Silver-plated copper core abrasion resistant PTFE insulated silver plated round copper wire braided shielded EP sheathed electrical wire and cable
FF+P+H-2	镀银铜芯耐磨PTFE绝缘镀银铜线编织屏蔽层航空电线电缆 Silver-plated copper core abrasion resistant PTFE insulated nickel plated round copper wire braided shielded EP sheathed electrical wire and cable

产品结构示意图 Structure diagram



- 1- 镀银铜导体
- 2- 耐磨PTFE绝缘
- 3- 镍层(镀银)铜线屏蔽
- 4- PTFE (H型) 护套或PEP (H型) 护套或PTFE生带 (H型) 护套

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

导体标称截面 Nominal cross section area mm <sup>2</sup>	导体结构数/单线直径 Conductor structure number of wires/diameter mm	成品电缆外径 Finished cable outer diameter mm	导体直流电阻最大值 Conductor maximum dc resistance Ω/km	成品电缆最大重量 Finished cable maximum weight kg/km
0.20	190.12	1.57±0.05	83.5	6.40
0.35	190.16	1.85±0.05	49.5	8.93
0.50	190.20	2.08±0.05	30.2	12.1
0.75	190.23	2.25±0.05	22.7	14.7

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导体标称截面 Nominal cross section area mm <sup>2</sup>	导体结构数/单线直径 Conductor structure number of wires/diameter mm	成品电缆外径 Finished cable outer diameter mm	导体直流电阻最大值 Conductor maximum DC resistance Ω/km	成品电缆最大重量 Finished cable maximum weight kg/km
1.0	190.26	2.34±0.05	19.0	16.4
1.2	190.28	2.59±0.08	15.3	20.5
1.5	190.32	2.80±0.08	11.7	24.8
2.0	190.36	2.92±0.08	9.45	27.7
2.5	370.30	3.30±0.08	6.86	36.9
3.0	370.32	3.40±0.08	6.23	42.4
4.0	370.37	3.80±0.10	4.51	54.1
5.0	370.40	4.01±0.10	3.90	62.2
6.0	370.45	4.50±0.13	3.05	77.0
8.0	1330.29	5.59±0.13	2.16	109
10.0	1330.32	6.35±0.15	1.68	135
13.0	1330.36	6.86±0.15	1.37	165
16.0	1330.39	7.55±0.18	1.13	196
20.0	1330.45	8.33±0.18	0.886	257

镀银铜芯耐磨PTFE绝缘电线电缆  
Silver-plated copper core abrasion resistant PTFE insulated cable

导体标称截面 (mm <sup>2</sup> ) Nominal cross section area	屏蔽层厚度 Shielded Hs type sheath minimum thickness	屏蔽层直径 Nominal thickness of shield	电缆外径 ≤mm Cable outer diameter				电缆重量 ≤kg/km Cable weight				
			无护套 With sheath and no shield	有护套 With shield and no shield	有护套 With shield and no shield	有护套 With shield and no shield	无护套 With sheath and no shield	有护套 With shield and no shield	有护套 With shield and no shield	有护套 With shield and no shield	
0.20	0.18	0.12	-	2.20	2.92	-	13.7	20.0	-	-	-
0.35	0.18	0.12	-	2.48	3.20	-	17.3	24.3	-	-	-
0.50	0.18	0.12	-	2.71	3.43	-	21.3	28.9	-	-	-
0.75	0.18	0.12	-	2.88	3.60	-	24.6	32.6	-	-	-
1.0	0.18	0.12	-	2.97	3.69	-	26.6	34.9	-	-	-
1.2	0.18	0.12	-	3.25	3.97	-	31.8	40.7	-	-	-
1.5	0.18	0.12	-	3.46	4.18	-	36.9	46.3	-	-	-
2.0	0.18	0.12	-	3.58	4.30	-	40.2	50.0	-	-	-
2.5	0.25	0.12	-	3.96	4.98	-	50.9	66.0	-	-	-
3.0	0.25	0.12	-	4.06	5.08	-	56.8	72.8	-	-	-
4.0	0.25	0.12	-	4.48	5.50	-	70.1	87.6	-	-	-
5.0	0.25	0.12	-	4.69	5.71	-	79.0	97.2	-	-	-
6.0	0.25	0.12	-	5.21	6.23	-	95.8	116	-	-	-

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导体标称截面 (mm <sup>2</sup> ) Nominal cross section area	屏蔽层厚度 Shielded Hs type sheath minimum thickness	屏蔽层直径 Nominal thickness of shield	电缆外径 ≤mm Cable outer diameter				电缆重量 ≤kg/km Cable weight				
			无护套 With sheath and no shield	有护套 With shield and no shield	有护套 With shield and no shield	有护套 With shield and no shield	无护套 With sheath and no shield	有护套 With shield and no shield	有护套 With shield and no shield	有护套 With shield and no shield	
0.20	0.25	0.12	4.26	3.82	4.94	25.1	25.3	39.3	-	-	-
0.35	0.25	0.12	4.82	4.38	5.40	32.1	32.4	48.2	-	-	-
0.50	0.25	0.12	5.28	4.84	5.86	40.0	40.4	57.7	-	-	-
0.75	0.25	0.12	5.62	5.18	6.20	46.4	46.9	65.3	-	-	-
1.0	0.25	0.12	5.80	5.36	6.38	50.4	51.0	69.9	-	-	-
1.2	0.25	0.12	6.36	5.92	6.94	60.6	61.2	82.0	-	-	-
1.5	0.25	0.12	6.78	6.34	7.36	70.7	71.5	93.5	-	-	-
2.0	0.25	0.12	7.02	6.58	7.60	77.3	78.2	101	-	-	-
0.20	0.25	0.12	4.52	4.08	5.10	33.4	33.7	49.4	-	-	-
0.35	0.25	0.12	5.12	4.68	5.70	43.2	43.6	61.5	-	-	-
0.50	0.25	0.12	5.62	5.18	6.20	54.6	55.2	74.7	-	-	-
0.75	0.25	0.12	5.99	5.55	6.57	63.8	64.5	85.3	-	-	-
1.0	0.25	0.12	6.18	5.74	6.76	69.7	70.4	91.9	-	-	-
1.2	0.25	0.12	6.78	6.35	7.37	84.3	85.2	109	-	-	-
1.5	0.25	0.12	7.24	6.80	7.82	99.0	100	125	-	-	-
2.0	0.25	0.12	7.50	7.06	8.08	109	110	136	-	-	-
0.20	0.25	0.12	4.84	4.50	5.52	41.6	42.0	59.9	-	-	-
0.35	0.25	0.12	5.62	5.18	6.20	54.3	54.9	74.8	-	-	-
0.50	0.25	0.12	6.17	5.73	6.75	69.2	70.0	91.8	-	-	-
0.75	0.25	0.12	6.59	6.15	7.17	81.2	82.1	105	-	-	-
1.0	0.25	0.12	6.80	6.36	7.38	88.9	89.9	114	-	-	-
1.2	0.25	0.12	7.48	7.04	8.06	108	109	136	-	-	-
1.5	0.25	0.12	7.99	7.55	8.57	127	129	157	-	-	-
2.0	0.25	0.12	8.28	7.84	8.86	140	142	171	-	-	-

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