



航空航天用镀银铜芯聚四氟乙烯绝缘轻型电线电缆
Silver-plated copper core PTFE insulated light-duty electrical wire and cable for aerospace

产品用途

本产品适用于交流额定电压250V及以下电气设备和仪器仪表连接用线以及航空航天飞行器布线等。

产品使用温度

-65℃~+200℃。

产品执行标准

GJB773A/A-2000

使用性能 Service property

| 项目名称 Item | 技术指标 Technical index |
|--|---|
| 电线电缆护套厚度 Electrical wire insulation minimum thickness | ≥0.13mm |
| 电质编织屏蔽密度 Cable braided shield density | ≥85% |
| 电线电缆电阻 Electrical wire insulation resistance | ≥1.0 × 10 ¹⁰ MΩ·km |
| 绝缘浸水电压 Insulation voltage when immersed in water | 1.5min不击穿 1.5 min, no breakdown |
| 电线电缆烟 Electrical wire smoke emission | (280 ± 5) °C × 15min, 无冒烟现象 (280 ± 5) °C × 15min, no smoke |
| 电连接强度及电连接抗张强度 Tensile strength of electrical wire/insulation and sheath | 拉伸速度为50 ± 5mm/min Tensile speed should be 50 ± 5mm/min |
| A) 电连接强度 Electrical wire insulation | ≥27.6N/mm ² |
| B) 电连接强度 Cable sheath | ≥20.7N/mm ² (H3型) |
| 电线电缆护套电连接抗张强度 Tensile strength at break of cable insulation and sheath | 拉伸速度为50 ± 5mm/min Tensile speed should be 50 ± 5mm/min |
| A) 电连接强度 Electrical wire insulation | ≥150% |
| B) 电连接强度 Cable sheath | ≥200% (H4型) |

产品型号及名称 Type and description

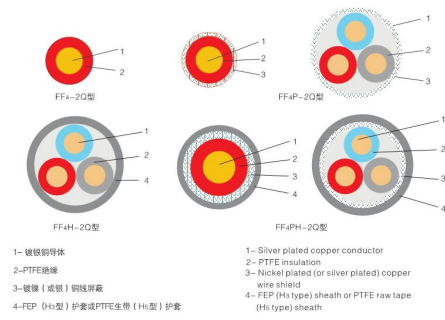
| 型号 Type | 名称 Description |
|---------|---|
| FF+2Q | 镀银铜芯PTFE绝缘轻型电线 Silver-plated copper core PTFE insulated light-duty electrical wire |
| FF+H+2Q | 镀银铜芯PTFE绝缘镀银铜芯聚四氟乙烯绝缘轻型电线电缆 Silver-plated copper core PTFE insulated FEP sheathed light-duty electrical wire and cable |

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续上表 Continued

| 型号 Type | 名称 Description |
|-----------|---|
| FF+H+2Q | 镀银铜芯PTFE绝缘PTFE绝缘轻型电线电缆 Silver-plated copper core PTFE insulated and sheathed light-duty electrical wire and cable |
| FF+P+2Q | 镀银铜芯PTFE绝缘镀银铜芯聚四氟乙烯绝缘轻型电线电缆 Silver-plated copper core PTFE insulated silver plated round copper wire braided shielded light-duty electrical wire and cable |
| FF+P+1+2Q | 镀银铜芯PTFE绝缘镀银铜芯聚四氟乙烯绝缘轻型电线电缆 Silver-plated copper core PTFE insulated nickel plated round copper wire braided shielded light-duty electrical wire and cable |
| FF+P+H+2Q | 镀银铜芯PTFE绝缘镀银铜芯聚四氟乙烯绝缘轻型电线电缆 Silver-plated copper core PTFE insulated nickel plated round copper wire braided shielded FEP sheathed light-duty electrical wire and cable |
| FF+P+H+2Q | 镀银铜芯PTFE绝缘镀银铜芯聚四氟乙烯绝缘轻型电线电缆 Silver-plated copper core PTFE insulated silver plated round copper wire braided shielded PTFE sheathed light-duty electrical wire and cable |
| FF+P+H+2Q | 镀银铜芯PTFE绝缘镀银铜芯聚四氟乙烯绝缘轻型电线电缆 Silver-plated copper core PTFE insulated nickel plated round copper wire braided shielded PTFE sheathed light-duty electrical wire and cable |

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

| Silver-plated copper core PTFE insulated light-duty electrical wire | | | | | |
|---|---|---|--|--|--|
| 导体标称截面 Nominal cross section area mm ² | 导体结构根数/单线直径 Conductor structure number of wires/diameter mm | 成品电线外径 Finished cable outer diameter mm | 导体电阻最大值 Conductor maximum DC resistance | 成品电缆最大重量 Finished cable maximum weight kg/km | |
| 0.06 | 7/0.10 | 0.61 ± 0.05 | 330 | 1.14 | |
| 0.08 | 7/0.12 | 0.69 ± 0.05 | 227 | 1.59 | |
| 0.14 | 19/0.10 | 0.79 ± 0.05 | 126 | 2.25 | |
| 0.20 | 19/0.12 | 0.91 ± 0.05 | 83.5 | 3.36 | |
| 0.35 | 19/0.16 | 1.07 ± 0.05 | 49.5 | 4.79 | |
| 0.50 | 19/0.20 | 1.27 ± 0.05 | 30.2 | 7.19 | |
| 0.75 | 19/0.23 | 1.49 ± 0.05 | 22.7 | 9.29 | |
| 1.00 | 19/0.26 | 1.55 ± 0.05 | 19.0 | 11.1 | |

| Silver-plated copper core PTFE insulated light-duty electrical wire (H3 type) | | | | | | | | |
|---|---|---|----------------------------------|-------------------------------|----------------------|-------------------|-----------------------------|------|
| 导体标称截面 (mm ²) Nominal cross section area | 排包护套厚度H3 型最小值mm Extruded H3 type sheath minimum thickness | 屏蔽罩芯 标称直径 mm Nominal thickness of shield | 电缆外径 ≤mm Cable outer diameter | | | | 电缆重量 ≤kg/km Cable weight | |
| | | | 无护套 With shield and no shield | 有护套 With shield and shield | 有护套 and no shield | 有护套 and shield | | |
| 0.06 | 0.18 | 0.10 | 1.11 | 1.67 | — | 3.86 | 6.56 | |
| 0.08 | 0.18 | 0.10 | 1.19 | 1.75 | — | 4.56 | 7.41 | |
| 0.14 | 0.18 | 0.10 | 1.29 | 1.85 | — | 5.52 | 8.57 | |
| 0.20 | 0.18 | 0.10 | 1.41 | 1.97 | — | 7.00 | 10.3 | |
| 0.35 | 0.18 | 0.10 | 1.57 | 2.13 | — | 8.92 | 12.5 | |
| 0.50 | 0.18 | 0.10 | 1.77 | 2.33 | — | 11.19 | 15.9 | |
| 0.75 | 0.18 | 0.10 | 1.99 | 2.55 | — | 14.7 | 19.1 | |
| 1.0 | 0.1 | 0.10 | 2.05 | 2.61 | — | 16.7 | 21.2 | |
| 0.06 | 0.18 | 0.10 | 1.88 | 1.77 | 2.33 | 5.17 | 6.66 | 10.4 |
| 0.08 | 0.18 | 0.10 | 2.04 | 1.93 | 2.49 | 6.36 | 8.02 | 12.0 |
| 0.14 | 0.18 | 0.10 | 2.24 | 2.13 | 2.69 | 8.06 | 9.92 | 14.3 |
| 0.20 | 0.18 | 0.10 | 2.48 | 2.37 | 2.93 | 10.8 | 12.9 | 17.7 |
| 0.35 | 0.18 | 0.10 | 2.80 | 2.69 | 3.25 | 14.2 | 16.6 | 22.0 |
| 0.50 | 0.18 | 0.10 | 3.20 | 3.09 | 3.69 | 19.8 | 22.6 | 28.7 |

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续上表 Continued

| 导体标称截面 (mm ²) Nominal cross section area | 排包护套厚度H3 型最小值mm Extruded H3 type sheath minimum thickness | 屏蔽罩芯 标称直径 mm Nominal thickness of shield | 电缆外径 ≤mm Cable outer diameter | | | | 电缆重量 ≤kg/km Cable weight | |
|--|---|---|----------------------------------|-------------------------------|----------------------|-------------------|----------------------------------|-------------------------------|
| | | | 无护套 With shield and no shield | 有护套 With shield and shield | 有护套 and no shield | 有护套 and shield | 无护套 With shield and no shield | 有护套 With shield and shield |
| 0.06 | 0.18 | 0.10 | 1.99 | 1.88 | 2.44 | 6.71 | 8.43 | 12.5 |
| 0.08 | 0.18 | 0.10 | 2.16 | 2.05 | 2.61 | 8.41 | 10.3 | 14.8 |
| 0.14 | 0.18 | 0.10 | 2.37 | 2.26 | 2.84 | 10.9 | 13.0 | 17.9 |
| 0.20 | 0.18 | 0.10 | 2.63 | 2.52 | 3.08 | 14.7 | 17.1 | 22.6 |
| 0.35 | 0.18 | 0.10 | 2.98 | 2.87 | 3.43 | 19.8 | 22.6 | 28.5 |
| 0.50 | 0.18 | 0.10 | 3.41 | 3.30 | 3.86 | 27.9 | 31.2 | 38.0 |
| 0.06 | 0.18 | 0.10 | 2.16 | 2.05 | 2.61 | 8.26 | 10.2 | 14.7 |
| 0.08 | 0.18 | 0.10 | 2.35 | 2.24 | 2.80 | 10.5 | 12.7 | 17.5 |
| 0.14 | 0.18 | 0.10 | 2.59 | 2.48 | 3.04 | 13.6 | 16.1 | 21.4 |
| 0.20 | 0.18 | 0.10 | 2.88 | 2.77 | 3.33 | 18.7 | 21.5 | 27.4 |
| 0.35 | 0.18 | 0.10 | 3.27 | 3.16 | 3.72 | 25.3 | 28.5 | 35.1 |
| 0.50 | 0.18 | 0.10 | 3.75 | 3.64 | 4.20 | 36.0 | 39.7 | 47.3 |

| Silver-plated copper core PTFE insulated light-duty cable (H4 type) | | | | | | | | |
|---|---|---|----------------------------------|-------------------------------|----------------------|-------------------|----------------------------------|-------------------------------|
| 导体标称截面 (mm ²) Nominal cross section area | 排包护套厚度H4 型最小值mm Extruded H4 type sheath minimum thickness | 屏蔽罩芯 标称直径 mm Nominal thickness of shield | 电缆外径 ≤mm Cable outer diameter | | | | 电缆重量 ≤kg/km Cable weight | |
| | | | 无护套 With shield and no shield | 有护套 With shield and shield | 有护套 and no shield | 有护套 and shield | 无护套 With shield and no shield | 有护套 With shield and shield |
| 0.06 | 0.20 | 0.10 | — | 1.71 | — | 6.79 | | |
| 0.08 | 0.20 | 0.10 | — | 1.79 | — | 7.64 | | |
| 0.14 | 0.20 | 0.10 | — | 1.89 | — | 8.83 | | |
| 0.20 | 0.20 | 0.10 | — | 2.01 | — | 10.6 | | |
| 0.35 | 0.20 | 0.10 | — | 2.17 | — | 12.8 | | |
| 0.50 | 0.20 | 0.10 | — | 2.37 | — | 16.2 | | |
| 0.75 | 0.20 | 0.10 | — | 2.59 | — | 19.5 | | |
| 1.0 | 0.20 | 0.10 | — | 2.65 | — | 21.6 | | |
| 0.06 | 0.20 | 0.10 | 1.92 | 2.37 | 5.41 | 10.7 | | |
| 0.08 | 0.20 | 0.10 | 2.08 | 2.53 | 6.62 | 12.3 | | |
| 0.14 | 0.20 | 0.10 | 2.28 | 2.73 | 8.35 | 14.7 | | |
| 0.20 | 0.20 | 0.10 | 2.52 | 2.97 | 11.1 | 18.0 | | |

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续上表 Continued

| 导体标称截面 (mm ²) Nominal cross section area | 绕包护套厚度H5 型最小值mm Extruded H5 type sheath minimum thickness | 屏蔽单芯 标称直径 mm Nominal thickness of shield | 电缆外径≤mm Cable outer diameter | | 电缆重量≤kg/km Cable weight | | |
|---|---|---|--|--|--|--|------|
| | | | 无屏有护 With sheath and no shield | 有屏无护 With shield and no sheath | 无屏有护 With sheath and no shield | 有屏无护 With shield and no sheath | |
| 2芯 | 0.35 | 0.20 | 0.10 | 2.84 | 3.29 | 14.6 | 22.4 |
| | 0.50 | 0.20 | 0.10 | 3.24 | 3.69 | 20.2 | 29.1 |
| 3芯 | 0.06 | 0.20 | 0.10 | 2.03 | 2.48 | 6.98 | 12.9 |
| | 0.08 | 0.20 | 0.10 | 2.20 | 2.65 | 8.71 | 15.1 |
| | 0.14 | 0.20 | 0.10 | 2.41 | 2.86 | 11.2 | 18.3 |
| | 0.20 | 0.20 | 0.10 | 2.67 | 3.12 | 15.1 | 23.0 |
| | 0.35 | 0.20 | 0.10 | 3.02 | 3.47 | 20.2 | 29.0 |
| | 0.50 | 0.20 | 0.10 | 3.45 | 3.90 | 28.4 | 38.5 |
| 4芯 | 0.06 | 0.20 | 0.10 | 2.20 | 2.65 | 8.56 | 15.1 |
| | 0.08 | 0.20 | 0.10 | 2.39 | 2.84 | 10.8 | 17.9 |
| | 0.14 | 0.20 | 0.10 | 2.63 | 3.08 | 14.0 | 21.8 |
| | 0.20 | 0.20 | 0.10 | 2.92 | 3.37 | 19.1 | 27.8 |
| | 0.35 | 0.20 | 0.10 | 3.31 | 3.76 | 25.7 | 35.6 |
| | 0.50 | 0.20 | 0.10 | 3.79 | 4.24 | 36.5 | 47.9 |