HULK

PRODUCT DATA SHEET H10002

High-Temperature Halogen-Free Single Conductor Cable 220°C – Silver-Plated Copper



Silver-plated Class 5 copper | 300/500 V | Up to +220°C

This 300/500 V high-temperature halogen-free single conductor cable features a fine-stranded, silver-plated Class 5 copper conductor for reliable performance and good solderability at temperatures up to +220°C. It is designed for protected internal wiring that requires heat resistance, flexibility, flame-retardant performance and low corrosive gas emission.

APPLICATION

- Industrial ovens and furnaces
- Heat treatment and thermal processing
- Industrial heaters, generators and transformers
- Control cabinets near heat sources
- Appliances and protected cable harnesses
- Sensors and instruments with soldered joints

CONSTRUCTION

Conductor	Fine-stranded silver-plated copper according to IEC 60228 and VDE 0295, Class 5
Insulation	Special high-temperature, halogen-free and flame-retardant compound
Colors	Black, blue, brown, grey, yellow, green, purple, white, gentian blue or green/yellow
Options	Tinned copper strands available on request. Alternative insulation colors and dimensional configurations available on request.

DIMENSIONS

Cross-section (mm²)	Largest single wire Ø (mm)	Approx. outer Ø (mm), ±10%	Copper wt. (kg/km)	Approx. cable wt. (kg/km)
0.25	0.16	2.3	2.4	7
0.34	0.16	2.4	3.3	8
0.50	0.21	2.5	4.8	10
0.75	0.21	2.8	7.2	13
1.00	0.21	2.9	9.6	15
1.50	0.26	3.4	14.4	21
2.50	0.26	4.0	24.0	32
4	0.31	4.6	38.4	48
6	0.31	5.1	57.6	67
10	0.41	7.4	96.0	121
16	0.41	8.4	153.6	176
25	0.41	10.3	240	283
35	0.41	11.5	336	385
50	0.41	14.2	480	549
70	0.41	15.2	672	736
95	0.51	18.6	912	1,009
120	0.51	20.1	1,152	1,214
150	0.51	22.2	1,440	1,511
185	0.51	23.6	1,776	1,827
240	0.51	27.3	2,304	2,457
300	0.51	30.4	2,880	3,062

TECHNICAL DATA

Voltage / test	Nominal: U_0/U 300/500 V. Test: 2000 V.
Minimum bend radius	7.5 x d; 5 x d for one single bend.
Temperature	Fixed: -40°C to +220°C. Flexible: -25°C to +220°C.
Max. operating temp.	Up to +220°C.
Halogen-free	According to IEC 60754-1 and VDE 0482-754-1.
Fire performance	Flame-retardant and self-extinguishing according to IEC 60332-1-2, DIN EN 60332-1-2 and VDE 0482-332-1-2.
Corrosive gases	No development of corrosive combustion gases according to IEC 60754-2 and VDE 0482-754-2.
Termination	Good solderability.
Flexibility / substances	Good flexibility. RoHS compliant and PFAS-free.

KEY PERFORMANCE 300/500 V | Up to +220°C | Silver-plated copper | Good solderability

MOTION NOTE For fixed installation and general flexible routing. Continuous flexing requires separate qualification.

AT A GLANCE

- HALOGEN-FREE
- GOOD SOLDERABILITY
- FLAME RETARDANT
- 0.25–300 mm²
- PFAS-FREE
- RoHS COMPLIANT

HULK COMPANY CREDENTIALS

Quality & compliance marks

Company-level credentials shown for reference. Product approvals and scope depend on the exact model and supporting documentation.