HULK

PRODUCT DATA SHEET H10006

Halogen-Free Single Conductor Wiring Cable 0.6/1 kV – FRNC

FRNC insulation | Class 5 stranded copper | 0.6/1 kV

This 0.6/1 kV halogen-free single conductor wiring cable is designed for internal power and equipment wiring in control cabinets, industrial machinery, generators, transformers and rail vehicles. Available in conductor sizes from 1.5 to 240 mm², it provides low-smoke, flame-retardant performance, good flexibility and reliable operation across an extended temperature range.



APPLICATION

- Control cabinets, switchboards and panels
- Industrial machinery and automation
- Generators and transformers
- Communications and electronic equipment
- Electrical appliances and cable harnesses
- Internal wiring of buses and rail vehicles

CONSTRUCTION

Conductor	Bare copper strands according to IEC 60228 and VDE 0295, Class 5
Insulation	Special halogen-free, flame-retardant and non-corrosive FRNC compound
Colors	Black, blue, brown, grey, yellow, green, purple, white, gentian blue or green/yellow
Options	Tinned copper strands available on request. Additional conductor sizes, 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)
1.5	0.26	3.2	14.4	23
2.5	0.26	3.9	24.0	35
4	0.31	4.5	38.4	51
6	0.31	5.0	57.6	71
10	0.41	7.3	96.0	131
16	0.41	8.3	153.6	199
25	0.41	10.2	240	305
35	0.41	11.4	336	404
50	0.41	14.1	480	576
70	0.41	15.1	672	765
95	0.51	18.5	912	1,052
120	0.51	20.0	1,152	1,261
150	0.51	22.1	1,440	1,567
185	0.51	23.5	1,776	1,892
240	0.51	27.2	2,304	2,538

TECHNICAL DATA

Voltage / test	Nominal: U_0/U 0.6/1 kV. Test: 3000 V.
Minimum bend radius	7.5 x d; 5 x d for one single bend.
Temperature	Fixed: -40°C to +90°C. Flexible: -30°C to +90°C.
Halogen-free	According to IEC 60754-1 and VDE 0482-754-1.
Flame propagation	No flame propagation according to IEC 60332-3-24 and IEC 60332-3-25, Category C or D.
Fire performance	Flame-retardant and self-extinguishing according to IEC 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.
Smoke density	Low smoke density according to IEC 61034 and VDE 0482-1034.
Flexibility / substances	Good flexibility. RoHS compliant and PFAS-free.

KEY PERFORMANCE U_0/U 0.6/1 kV | 3,000 V test voltage | Low smoke | Class 5 copper

MOTION NOTE For fixed wiring and general flexible routing. Continuous flexing in drag chains requires separate qualification.

AT A GLANCE

- HALOGEN-FREE FRNC
- LOW SMOKE
- 3,000 V TEST VOLTAGE
- 1.5–240 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.