



Halogen free installation wire

NEN: Z₁Dfzh 450/750 V

CLC: H07Z₁-K

Application:

- In installations where the demands for fire safety are high
- Wiring of switchboards, operating panels, apparatus, etc., where installation requires a flexible wire

Properties regarding fire performance:

- Halogen free, in accordance with NEN-EN-IEC 60754
- Low smoke, in accordance with NEN-EN-IEC 61034
- Self-extinguishing, in accordance with NEN-EN-IEC 60332-1

General properties:

- Very flexible because the conductor consists of many thin copper wires

Construction:

Conductor: flexible plain copper (class 5)

Insulation: halogen free flame retardant thermoplastic (LSOH)

Electrical data:

Voltage rating: 450/750 V

Test voltage: 2,5 kV

Core colours:

Standard colours: see table

Other colours: can be supplied on request

Standards/References:

NEN-EN 50525
NEN-EN-IEC 60332-1
NEN-EN-IEC 60754
NEN-EN-IEC 61034

Additional information:

Minimum installation temperature: -20 °C

Maximum conductor temperature: +70 °C

Operating temperature: min. -40 °C, max. +50 °C

Approval: <HAR>

Packaging: boxes, coils, drums

Construction data

Conductor material	Cu, bare
Nominal cross section conductor	1.5 mm ²
AWG-size	0
Diameter conductor	1.5 mm
Conductor category	Class 5 = flexible
Core insulation	Copolymer, thermoplastic
Screen	No
Core colour	Brown
Outer diameter approx.	2.9 mm
Weight	20 kg/km

Properties

Halogen free (acc. EN 50267-2-2)	Yes
Halogen free (acc. EN 60754-1/2)	Yes
Flame retardant	In accordance with EN 60332-1-2
Low smoke (acc. EN 61034-2)	Yes
Low temperature resistant (acc. EN 60811-1-4)	Yes
Low temperature resistant (acc. EN 60811-504+505+506)	Yes
Oil resistant (acc. EN 60811-2-1)	No
Oil resistant (acc. EN 60811-404)	No
Permitted cable outer temperature, in movement	-20 / 50 °C
Permitted cable outer temperature, fixed	-40 / 50 °C
Bending radius	10 mm
Max. tensile force	75 N

Electrical

Nominal voltage U ₀	450 V
Nominal voltage U	750 V
Conductor resistance 20°C	13.3 ohm/km
Conductor resistance operating temperature	15.9068 ohm/km
Current carrying capacity	15.5 A