



Halogen free installation wire

NEN: Z₁Dzh 450/750 V
CLC: H07Z₁-U (solid conductor)
H07Z₁-R (stranded conductor)

Application:

- In installations where the demands for fire safety are high
- In conduit or trunking systems
- Wiring of switchboards, operating panels, apparatus, etc.

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

Construction:

Conductor: solid (class 1) or stranded (class 2) plain copper
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

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
Conductor category	Class 1 = solid
Core insulation	Copolymer, thermoplastic
Screen	No
Core colour	Brown
Outer diameter approx.	2.8 mm
Weight	19 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	15 mm
Max. tensile force	75 N

Electrical

Nominal voltage U ₀	450 V
Nominal voltage U	750 V
Conductor resistance 20°C	12.1 ohm/km
Conductor resistance operating temperature	14.4716 ohm/km
Current carrying capacity	15.5 A