



Type Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Shielding 1:
Shielding 2:
Total shielding:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Drag chain applications 4x2x0.15 mm² (stranded)

Copper, bare (AWG 26/19)
PP
whbu/bu, whog/og, whgn/gn, whbn/bn
Double core
Polyester foil over stranded bundle
Polyester foil, aluminium-lined
Cu braid, tinned
PUR
6,8 mm ± 0,3 mm
Green

Electrical data

Characteristic impedance: 100 Ohm ± 15 ohm at 1 to 100 MHz
Insulation resistance: 0,15 GOhm x km min.
Mutual capacitance: 48,0 nF/km nom.
Test voltage: 0,7 kV

Typical values

| Frequency (MHz) | 10 | 16 | 62,5 | 100 |
|-----------------------|------|------|------|------|
| Attenuation (dB/100m) | 9,0 | 11,0 | 24,0 | 31,0 |
| Next (db) | 47,0 | 44,0 | 35,0 | 32,0 |

Technical data

Weight: approx. 56,0 kg/km
Min. bending radius for laying: 102,0 mm
Operating temperature range min.: -40 °C
Operating temperature range max.: +80 °C
Caloric load, approx value: 0,64 MJ/m
Copper value: 31,0 kg/km

Norms

Acc. to ISO/IEC 11801, Acc. to EN 50173, Acc. to EIA/TIA 568-A, Category 5e, Flame-retardant acc. to IEC 60332-1, Halogen-free acc. to 60754-2, Corrosiveness acc. to EN50267-2-3

Application

This copper data cable, designed especially for heavy-duty industrial applications (Industrial Ethernet), is very well suited for manufacturing of RJ45 and 15 or 9-Pin Sub-D plugs. With its PUR sheath, it is also suitable for the application in drag chains.

Part no.

82839, Industrial Ethernet