



Type Cable structure

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

Drag chain applications 4x1x0.15 mm² (stranded)

Copper, bare (AWG 26/19)
PP
whbl, bl, whor, or
Star quad
Polyester foil over stranded bundle
Polyester foil, aluminium-lined
Cu braid, tinned
PUR
approx. 4,8 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: 51,0 nF/km nom.
Test voltage: 0,7 kV

Typical values

Frequency (MHz)	10	16	62,5	100	155
Attenuation (db/100m)	9,9	12,3	25,6	33,0	41,0
Next (db)	47,0	44,0	35,0	32,0	30,0

Technical data

Weight: approx. 30,00 kg/km
Min. bending radius for laying: 72,0 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 0,37 MJ/m
Copper weight: 17,0 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, UL-Style 20963 (80°C/30V)

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.

82838, Industrial Ethernet

Dimensions and specifications may be changed without prior notice.