

BUS Cables

HELUKABEL® BUS Cables FOUNDATION™ Fieldbus armored



Type Cable structure

Inner conductor diameter:
Core insulation:
Core colours:
Stranding element:
Separator:
Inner sheath material:
Shielding 1:
Total shielding:
Drain wire:
Armouring:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

process automation 1x2xAWG18/7

Copper, bare (AWG 18/7)
PO
or, bl
2 cores + 2 fillers stranded together
Polyester foil over stranded bundle
PVC
Al-Foil
Cu braid, tinned
yes
steel wire
PVC
app. 11,2 mm ± 0,3 mm
Black

Electrical data

Characteristic impedance: 100 Ohm ± 20 Ohm
Conductor resistance, max.: 22 Ohm/km
Insulation resistance, min.: 5 GOhm x km
Loop resistance: 44 Ohm/km max.
Mutual capacitance: 60 nF/km nom.
Nominal voltage: 300 V
Test voltage: 1,5 kV
Attenuation: 39 kHz ≤ 3,4 dB/km

Technical data

Weight: app. 174 kg/km
bending radius, repeated: 90 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 2,45 MJ/m
Copper weight: 45,00 kg/km

Norms

Applicable standards: Foundation Fieldbus Spec. FF-816-1.4
Flame-retardant acc. to IEC 60332-3

Application

HELUKABEL® FOUNDATION™ Fieldbus Basic armored for normal requirements in this industrial networks. Thanks to use of stranded conductors, this cable can be moved occasionally and satisfies the usual American requirements for such networks. The steel wire armouring also realizes an outstanding rodent protection.

Part no.

11018120, Foundation™ Fieldbus Basic

Dimensions and specifications may be changed without prior notice.