

BUS Cables

FOUNDATION™ Fieldbus flexible Basic

 **HELUKABEL®**

PVC



Type

Cable structure

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

process automation

1x2x1.2/2,55-100 LI

Copper, bare (AWG 18/7)
PO
or, bl
2 cores + 2 fillers stranded together
Polyester foil over stranded bundle
Al-Foil
Cu braid, tinned
yes
PVC
app. 8,0 mm ± 0,3 mm
Orange similar to RAL 2003

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. 85 kg/km
bending radius, repeated: 80 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 1,22 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
UL Style: CMG 75°C PLTC FT4
CSA standard: CSA FT 4

Application

HELUKABEL® FOUNDATION™ Fieldbus Basic 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.

Part no.

803354, Foundation™ Fieldbus Basic

Dimensions and specifications may be changed without prior notice.