

# 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.

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