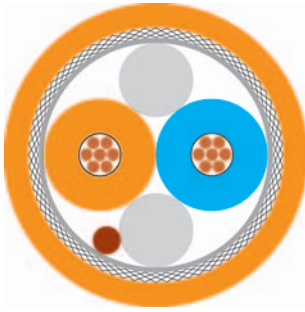


BUS Cables

FOUNDATION™ Fieldbus

Basic



Type

Cable structure

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

process automation

1x2x1.1/2, 55-100 LI

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

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

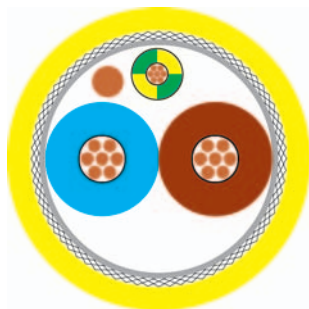
Dimensions and specifications may be changed without prior notice.

BUS Cables

FOUNDATION™ Fieldbus

HELUKABEL®

Type A + gnye



Type

Cable structure

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

process automation

1x2x1.1/2, 85-100 LI + 1x0,8 gnye

Copper, bare (AWG 18/41)
 Copper, bare (AWG 18/41)
 XLPE ray cross-linking
 PVC
 bu, bn
 gn/ye
 Double core
 -
 Polyester foil, aluminium-lined
 Cu braid, tinned
 yes
 PVC
 app. 7,9 mm ± 0,3 mm
 Yellow

Electrical data

Characteristic impedance: 100 Ohm ± 20 Ohm
 Conductor resistance, max.: 24 Ohm/km
 Insulation resistance, min.: 2 GOhm x km
 Loop resistance: 48 Ohm/km max.
 Mutual capacitance: 65 nF/km nom.
 Nominal voltage: 300 V
 Test voltage: 1,5 kV
 Attenuation: 39 kHz ≤ 3,4 dB/km

Technical data

Weight: app. 84 kg/km
 bending radius, repeated: 80 mm
 Operating temperature range min.: -25°C
 Operating temperature range max.: +105°C
 Caloric load, approx. value: 1,00 MJ/m
 Copper weight: 49,00 kg/km

Norms

Applicable standards: Foundation Fieldbus Spec. FF-816-1.4
 Flame-retardant acc. to IEC 60332-3
 UL Style: CMG 105° or CL3 FT4
 CSA standard: CSA FT 4

Application

HELUKABEL® FOUNDATION™ Fieldbus Type A + gnye offers an additional conductor in the structure in compliance with the FF specification. Thanks to use of stranded conductors, this cable can be moved occasionally and satisfies the usual American requirements for such networks.

Part no.

801191, Foundation Fieldbus FF A

Dimensions and specifications may be changed without prior notice.

R

BUS Cables

FOUNDATION™ Fieldbus**HELUKABEL®**

Type A armoured



Type

Cable structure

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

process automation

1x2x1.1/2, 85-100 LI + 1x0,8 gnye, armoured

Copper, bare (AWG 18/41)
 Copper, bare (AWG 18/37)
 XLPE ray cross-linking
 PVC
 bu, bn
 gn/ye
 Double core
 -
 Polyester foil, aluminium-lined
 Polyester foil, aluminium-lined
 yes
 Corrugated copper tube
 PVC
 app. 12,3 mm ± 0,3 mm
 Yellow

Electrical data

Characteristic impedance: 100 Ohm ± 20 Ohm
 Conductor resistance, max.: 24 Ohm/km
 Insulation resistance, min.: 2 GOhm x km
 Loop resistance: 48 Ohm/km max.
 Mutual capacitance: 65 nF/km nom.
 Nominal voltage: 300 V
 Test voltage: 1,5 kV
 Attenuation: 39 kHz ≤ 3,4 dB/km

Technical data

Weight: app. 187 kg/km
 bending radius, repeated: 130 mm
 Operating temperature range min.: -25°C
 Operating temperature range max.: +105°C
 Caloric load, approx. value: 1,65 MJ/m
 Copper weight: 125,00 kg/km

Norms

Applicable standards: Foundation Fieldbus Spec. FF-816-1.4
 Flame-retardant acc. to IEC 60332-3
 CMG 105°C or PLTC FT4 Sun Res
 CSA standard: CSA FT 4

Application

HELUKABEL® FOUNDATION™ Type A Armoured finds use in areas with rodents such as rats, nutria etc. but also offers additional protection against all other outside mechanical influences thanks to its corrugated tape armouring. Thanks to use of stranded conductors, this cable can be moved occasionally and satisfies the usual American requirements for such networks.

Part no.

801192, Foundation Fieldbus FF A

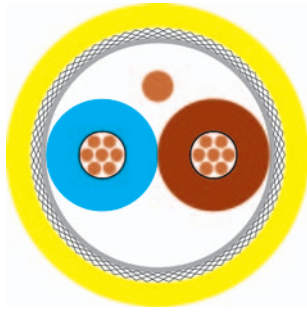
Dimensions and specifications may be changed without prior notice.

BUS Cables

FOUNDATION™ Fieldbus

HELUKABEL®

Type A



Type

Cable structure

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

process automation

1x2x1.1/2, 85-100 LI

Copper, bare (AWG 18/37)
XLPE ray cross-linking
bu, bn
Double core
-
Polyester foil, aluminium-lined
Cu braid, tinned
yes
PVC
app. 7,9 mm ± 0,3 mm
Yellow

Electrical data

Characteristic impedance: 100 Ohm ± 20 Ohm
Conductor resistance, max.: 24 Ohm/km
Insulation resistance, min.: 2 GOhm x km
Loop resistance: 48 Ohm/km max.
Mutual capacitance: 65 nF/km nom.
Nominal voltage: 300 V
Test voltage: 1,5 kV
Attenuation: 39 kHz ≤ 3,4 dB/km

Technical data

Weight: app. 89 kg/km
bending radius, repeated: 80 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +105°C
Caloric load, approx. value: 1,05 MJ/m
Copper weight: 42,00 kg/km

Norms

Applicable standards: Foundation Fieldbus Spec. FF-816-1.4
Flame-retardant acc. to IEC 60332-3
UL Style: CMG 105° or CL3 FT4
CSA standard: CSA FT 4

Application

HELUKABEL® FOUNDATION™ Fieldbus Type A for normal requirements in this industrial network. Thanks to use of stranded conductors, this cable can be moved occasionally and satisfies the usual American requirements for such networks.

Part no.

801193, Foundation Fieldbus FF A

Dimensions and specifications may be changed without prior notice.

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