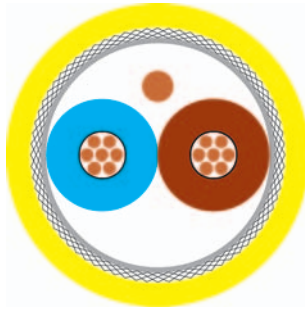


# BUS Cables

FOUNDATION™ Fieldbus



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 18/41)  
XLPE ray cross-linking  
bu, bn  
Double core  
-  
Polyester foil, aluminium-lined  
Cu braid, tinned  
yes  
PVC  
approx. 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: approx. 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  
UL Style: CMG 105° or CL3 FT4  
CSA standard: CSA FT 4

## Application

The FOUNDATION™ Fieldbus is an open and neutral fieldbus standard which is primarily oriented on the requirements of process automation. It is a functionally complete fieldbus solution for areas like temperature transmitters, pressure transmitters or valve actuators. Today we distinguish between the specification H1 (31,25 kbit/s) and HSE (100Mbit/s). Branches like the petrochemical, chemical or the food- and beverage industry see the advantages and use the FOUNDATION™ fieldbus technology.

## Part no.

**801193**, Foundation Fieldbus FF A

Dimensions and specifications may be changed without prior notice.