



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, armoured

Copper, bare (AWG 18/41)
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XLPE ray cross-linking
PVC
bu, bn
gn/ye
Double core
-
Polyester foil, aluminium-lined
Cu braid, tinned
yes
PVC
12,3 mm ± 0,3 mm
Yellow

Electrical data

Characteristic impedance: 100 Ohm ± 20 Ohm
Conductor resistance: 24,0 Ohm/km max.
Insulation resistance: 2,00 GOhm x km min.
Mutual capacitance: 65,0 nF/km nom.
Nominal voltage: 300 V
Test voltage: 1,5 kV
Attenuation: 39 kHz 3,4 dB/km

Technical data

Weight: approx. 187,0 kg/km
Min. bending radius for laying: 130,0 mm
Operating temperature range min.: -25 °C
Operating temperature range max.: +105 °C
Caloric load, approx value: 1,65 MJ/m
Copper value: 110,0 kg/km

Norms

Applicable standards: Foundation Fieldbus Spec. FF-816-1.4
UL Style: CMG 105°C or PLTC FT4 Sun Res

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.

801192, Foundation Fieldbus FF A