



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:
Outer sheath material:
Cable external diameter:
Outer sheath colour:

Fixed installation, indoor 3x2x0.22 mm²

Copper, bare (AWG 24/7)
-
PE
-
wh/bn, gn/rd, ye/gn
-
Double core
Polyester foil over stranded bundle
-
Cu braid, bare
PVC
7,0 mm ± 0,3 mm
Pastel turquoise similar to RAL 6034

Fixed installation, indoor 3x2x0.22 mm² + 3x1.0 mm²

Copper, bare (AWG 24/7)
Copper, bare (AWG 17/56)
PE
PE
wh/bn, gn/rd, ye/gn
bu, rd, gnye
Double core
Polyester foil over stranded bundle
-
Cu braid, bare
PVC
8,0 mm ± 0,3 mm
Pastel turquoise similar to RAL 6034

Electrical data

Characteristic impedance:
Conductor resistance:
Insulation resistance:
Mutual capacitance:
Test voltage:
Attenuation:

100 Ohm ± 15 Ohm
96,0 Ohm/km max.
1,00 GOhm x km min.
60,0 nF/km nom.
1,0 kV
256 kHz < 1,5 dB/100m
772 kHz < 2,4 dB/100m
1 MHz < 2,7 dB/100m
4 MHz < 5,2 dB/100m
10 MHz < 8,4 dB/100m
16 MHz < 11,2 dB/100m
20 MHz < 11,9 dB/100m

100 Ohm ± 15 Ohm
96,0 Ohm/km max.
1,00 GOhm x km min.
60,0 nF/km nom.
1,0 kV
256 kHz < 3,0 dB/100m
772 kHz < 4,8 dB/100m
1 MHz < 5,2 dB/100m
4 MHz < 10,4 dB/100m
10 MHz < 16,8 dB/100m
16 MHz < 22,4 dB/100m
20 MHz < 23,8 dB/100m

Technical data

Weight:
Min. bending radius for laying:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx value:
Copper value:

approx. 70,0 kg/km
110,0 mm
-40 °C
+70 °C
1,20 MJ/m
35,0 kg/km

approx. 96,0 kg/km
120,0 mm
-40 °C
+70 °C
1,31 MJ/m
68,0 kg/km

Norms

Applicable standards:
UL Style:

interbus specification 2.0, IEC61158
UL Style 2571

interbus specification 2.0, IEC61158
UL Style 2571

Application

Interbus-S is an inexpensive way to network sensors and actuators with all standard automation instruments. The twisted two-core conductor is used as a standard transfer medium. This bus system replaces the expensive parallel cabling for the different signal types in the lower levels of automation technique and combines the cables in a single bus cable. Interbus components are connected with this long-distance BUS cable.

Part no.

80778, I-BUS

81202, I-BUS