



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:

Drag chain applications 3x2x0.25 mm²

Copper, bare (AWG 24/19)
-
PE
-
wh/bn, gn/rd, ye/gn
-
Double core
Polyester foil over stranded bundle
-
Cu braid, bare
PUR
7,6 mm ± 0,3 mm
Pastel turquoise similar to RAL 6034

Drag chain applications 3x2x0.25 mm² + 3x1.0 mm²

Copper, bare (AWG 24/32)
Copper, bare (AWG 17/65)
PE
PE
wh/bn, gn/rd, ye/gn
bu, rd, gnye
Double core
Polyester foil over stranded bundle
-
Cu braid, bare
PUR
8,0 mm ± 0,3 mm
Violet similar to RAL 4001

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. 63,0 kg/km
90,0 mm
-20 °C
+70 °C
0,94 MJ/m
36,0 kg/km

approx. 92,0 kg/km
100,0 mm
-20 °C
+70 °C
1,23 MJ/m
70,0 kg/km

Norms

Applicable standards:

interbus specification 2.0, IEC61158

interbus specification 2.0, IEC61158

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. The above mentioned types are suitable for drag chain application.

Part no.

81203, I-BUS

82696, I-BUS