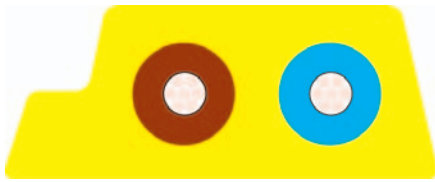


BUS Cables

A-BUS



EPDM



Type Cable structure

Inner conductor:
Core insulation:
Core colours:
Shielding 1:
Shielding 2:
Total shielding:
Outer sheath material:
Outer sheath colour:

Actuator Sensor Interface 2x1.5 mm²

Copper, tinned
Rubber compound
bu, bn
-
-
-
EPDM
Yellow similar to RAL 1023

Actuator Sensor Interface 2x1.5 mm²

Copper, tinned
Rubber compound
bu, bn
-
-
-
EPDM
Black similar to RAL 9005

Electrical data

Conductor resistance, max.: 13,7 Ohm/km
Insulation resistance, min.: 1 GOhm x km
Loop resistance: 27 Ohm/km max.
Nominal voltage: 32 V
Test voltage: 1 kV at 15 min.

13,7 Ohm/km
1 GOhm x km
27 Ohm/km max.
48 V
1 kV at 15 min.

Technical data

Weight: app. 70 kg/km
bending radius, repeated: 30 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +85°C
Caloric load, approx. value: 0,975 MJ/m
Copper weight: 31,00 kg/km

app. 70 kg/km
30 mm
-40°C
+85°C
0,975 MJ/m
31,00 kg/km

Norms

Applicable standards: ASI standard
Halogen-free acc. to 60754-2

ASI standard
Halogen-free acc. to 60754-2

Application

HELUKABEL® A-Bus EPDM Rubber for normal use in an AS-I system. Applications include wet/dry areas where the properties of a rubber jacket are desired. In addition, this material offers benefits such as low compression forces needed when contacting and the best sealing against the AS-I module.

Part no.

80824, A-BUS EPDM

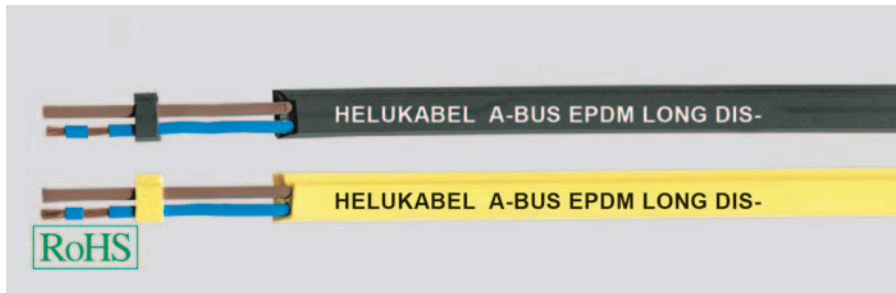
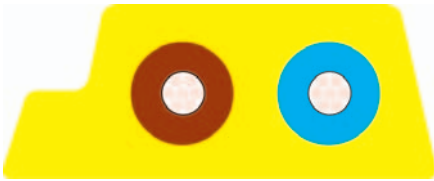
80825, A-BUS EPDM

Dimensions and specifications may be changed without prior notice.

R

BUS Cables

A-BUS EPDM, Long Distance



Type Cable structure

Inner conductor:
Core insulation:
Core colours:
Shielding 1:
Shielding 2:
Total shielding:
Outer sheath material:
Outer sheath colour:

Industrial Area 2x2.5 mm²

Copper, tinned
Rubber compound
bu, bn
-
-
-
EPDM
Yellow similar to RAL 1023

Industrial Area 2x2.5 mm²

Copper, tinned
Rubber compound
bu, bn
-
-
-
EPDM
Black similar to RAL 9005

Electrical data

Technical data

Weight:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

app. 130 kg/km
35 mm
-40°C
+85°C
0,70 MJ/m
49,00 kg/km

app. 130 kg/km
30 mm
-40°C
+85°C
0,70 MJ/m
49,00 kg/km

Norms

Applicable standards: ASI standard
Halogen-free acc. to 60754-2

ASI standard
Halogen-free acc. to 60754-2

Application

HELUKABEL® A-Bus Long Distance EPDM Rubber 2,5mm² for normal use in an AS-I system. The enlarged cross-section allows bigger transmission distances, higher ampacity and this results in savings of supplementary power packs. Applications include wet/dry areas where the properties of a rubber jacket are desired. In addition, this material offers benefits such as low compression forces needed when contacting and the best sealing against the AS-I module.

Part no.

804408, A-BUS EPDM

804409, A-BUS EPDM

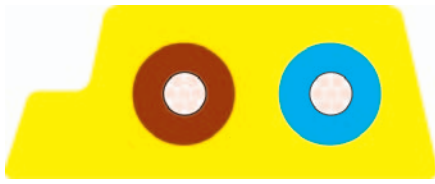
Dimensions and specifications may be changed without prior notice.

BUS Cables

A-BUS



PUR, UL/CSA



Type Cable structure

Inner conductor:
Core insulation:
Core colours:
Shielding 1:
Shielding 2:
Total shielding:
Outer sheath material:
Outer sheath colour:

Actuator Sensor Interface 2x1.5 mm²

Copper, tinned
PO
bu, bn
-
-
-
PUR
Yellow similar to RAL 1023

Actuator Sensor Interface 2x1.5 mm²

Copper, tinned
PO
bu, bn
-
-
-
PUR
Black similar to RAL 9005

Electrical data

Conductor resistance, max.: 13,7 Ohm/km
Insulation resistance, min.: 1 GOhm x km
Loop resistance: 27 Ohm/km max.
Nominal voltage: 32 V
Test voltage: 1 kV at 15 min.

13,7 Ohm/km
1 GOhm x km
27 Ohm/km max.
48 V
1 kV at 15 min.

Technical data

Weight: app. 64 kg/km
bending radius, repeated: 30 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +80°C
Caloric load, approx. value: 0,965 MJ/m
Copper weight: 31,00 kg/km

app. 64 kg/km
30 mm
-40°C
+80°C
0,965 MJ/m
31,00 kg/km

Norms

Applicable standards:

ASI standard
Halogen-free acc. to 60754-2
Flame-retardant acc. to IEC 60332-1
AWM Style 20549
CSA FT2

ASI standard
Halogen-free acc. to 60754-2
Flame-retardant acc. to IEC 60332-1
AWM Style 20549
CSA FT2

Application

HELUKABEL® A-Bus PU is ideal for use in wet/dry areas thanks to its outstanding characteristics when exposed to common coolants/lubricants. This version can also be used in cable carriers (special installation conditions must be observed: place wide cable side on inside radius, use partitions and install flat/round cables separately). These types are approved for use in the American market (UL 1581, FT2) thanks to use of special materials.

Part no.

82434, A-BUS PUR

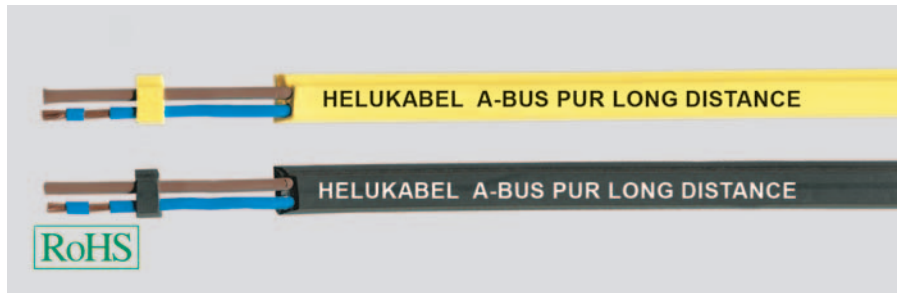
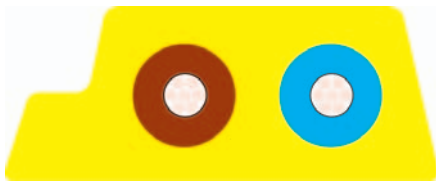
82822, A-BUS PUR

Dimensions and specifications may be changed without prior notice.

R

BUS Cables

A-BUS PUR 2X2.5 PUR, Long Distance, UL/CSA



Type Cable structure

Inner conductor:
Core insulation:
Core colours:
Shielding 1:
Shielding 2:
Total shielding:
Outer sheath material:
Outer sheath colour:

Drag chain applications 2x2.5 mm²

Copper, tinned
PO
bu, bn
-
-
-
PUR
Yellow similar to RAL 1023

Drag chain applications 2x1.5 mm²

Copper, tinned
PO
bu, bn
-
-
-
PUR
Black similar to RAL 9005

Electrical data

Conductor resistance, max.:
Loop resistance:
Nominal voltage:

8,21 Ohm/km
16 Ohm/km max.
32 V

8,21 Ohm/km
16 Ohm/km max.
48 V

Technical data

Weight:
bending radius, repeated:
Operating temperature range min.:
Operating temperature range max.:
Caloric load, approx. value:
Copper weight:

app. 140 kg/km
30 mm
-40°C
+80°C
0,90 MJ/m
49,00 kg/km

app. 140 kg/km
30 mm
-40°C
+80°C
0,90 MJ/m
49,00 kg/km

Norms

Applicable standards:

ASI standard
Halogen-free acc. to 60754-2
Flame-retardant CSA FT2
AWM Style 20549
CSA FT2

ASI standard
Halogen-free acc. to 60754-2
Flame-retardant CSA FT2
AWM Style 20549
CSA FT2

Application

AS components are interconnected with this special system cable. With the AS interface, the cable assembly from the control system to the sensor/actuator is not needed. The AS interface is the field bus system that transmits both data and power in one single cable. With fast contacting in penetration technique, the possibility of errors in cabling is largely reduced. The special outer jacket provides protection against oil, grease, and refrigerant lubricants, and the cable is therefore even suitable for applications in wet surroundings, in machinery and plant construction, as well as in the machine tool and automotive industry. The PUR variant is suitable for heavy-duty industrial environments.

Because of the cross section 2,5qmm it is possible to realize longer distances.

These types are certified for the American market (UL 1581, FT2) through the use of special materials.

Part no.

804410, A-BUS PUR

804411, A-BUS PUR

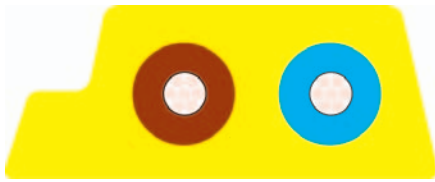
Dimensions and specifications may be changed without prior notice.

BUS Cables

A-BUS



TPE



Type Cable structure

Inner conductor:
Core insulation:
Core colours:
Shielding 1:
Shielding 2:
Total shielding:
Outer sheath material:
Outer sheath colour:

Actuator Sensor Interface 2x1.5 mm²

Copper, tinned
TPE
bu, bn
-
-
-
TPE
Yellow

Actuator Sensor Interface 2x1.5 mm²

Copper, tinned
TPE
bu, bn
-
-
-
TPE
Black

Electrical data

Conductor resistance, max.: 13,7 Ohm/km
Insulation resistance, min.: 1 GOhm x km
Loop resistance: 27 Ohm/km max.
Nominal voltage: 32 V
Test voltage: 1,5 kV at 15 min.

13,7 Ohm/km
1 GOhm x km
27 Ohm/km max.
48 V
1,5 kV at 15 min.

Technical data

Weight: app. 70 kg/km
bending radius, repeated: 24 mm
Operating temperature range min.: -40°C
Operating temperature range max.: +105°C
Caloric load, approx. value: 1,10 MJ/m
Copper weight: 31,00 kg/km

app. 70 kg/km
24 mm
-40°C
+105°C
1,10 MJ/m
31,00 kg/km

Norms

Applicable standards:

ASI standard
Flame-retardant acc. to IEC 60332-1

ASI standard
Flame-retardant acc. to IEC 60332-1

Application

HELUKABEL® A-Bus TPE for demanding temperature requirements up to 105 °C and flame retardance. The special outer sheath makes the cable resistant to many oils, greases and cooling lubricants and thus suitable for applications in wet surroundings, in machinery and plant construction as well as the machine tool and automotive industries.

Part no.

801846, A-BUS TPE

801847, A-BUS TPE

Dimensions and specifications may be changed without prior notice.

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