## BUS-CABLES

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02YS(St)CY

PROFIBUS
Bus-cable for Profibus
Permanent installation indoor • 1 x 2 x 0,64 / 2,50

APPLICATION
The cable can be used as connecting cable in general machinery construction. It is used as connection cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. The cable is applicable for indoor installation.

STANDARDS
DIN 19245 T3; EN 50170 (acc. to Profibus specifications)

CONSTRUCTION
Conductor: copper wire, solid, bare (AWG 22/1)
Core insulation: Foam-Skin PE
Core identification: red, green
Core stranding: 2 cores and 2 drain wires layed up
Lapping: plastic foil
Screen: Al/PETP compound foil; tinned copper wire braid (visual covering appr. 80%)
Sheath: PVC; colour: violett RAL 4001

ELECTRICAL CHARACTERISTICS
(Conductor) loop resistance max. 115 Ω/km
Insulation resistance min. 1 GΩ x km
Characteristic impedance (3 – 20 MHz) 150 ± 15 Ω
Mutual capacitance nom. 30 nF/km
Attenuation max. at 9,6 kHz 2,5 dB/km
38,4 kHz 4,0 dB/km
4,0 MHz 22,0 dB/km
16,0 MHz 42,0 dB/km
Peak operating voltage 250 V
Test voltage 1500 V

THERMAL & MECHANICAL PROPERTIES
Temperature range stationary -30°C to +70°C
Cable diameter 7,5 ± 0,2 mm
Cable weight appr. 54 kg/km
Copper index 25 kg/km
Minimum bending radius stationary 65 mm

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

We reserve changes which serve technical progress • Copper base 150,00 € / 100,00 kg
Price upon quantity-specific request
**02YS(St)CY2Y**

**PROFIBUS**  
Bus-cable for Profibus  
Permanent installation outdoor • 1 x 2 x 0,64

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**APPLICATION**  
The cable can be used as connecting cable in general machinery construction. It is used as connection cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. The cable is applicable for indoor and outdoor installation.

**STANDARDS**  
DIN 19245 T3; EN 50170 (acc. to Profibus specifications)

**CONSTRUCTION**  
- **Conductor:** copper wire, solid, bare (AWG 22/1)  
- **Core insulation:** Foam-Skin PE  
- **Core identification:** red, green  
- **Core stranding:** 2 cores and 2 drain wires layed up  
- **Lapping:** plastic foil  
- **Screen:** Al/PETP compound foil; tinned copper wire braid (visual covering appr. 80%)  
- **Inner sheath:** PVC, colour: violet RAL 4001  
- **Outer sheath:** PE, colour: black RAL 9005

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**ELECTRICAL CHARACTERISTICS**  
- (Conductor) loop resistance max. 115 Ω/km  
- Insulation resistance min. 1 GΩ x km  
- Char. impedance (3–20 MHz) 150 Ω ± 15 Ω  
- Mutual capacitance nom. 30 nF/km  
- Attenuation max. at 9,6 kHz 2,5 dB/km  
- 38,4 kHz 4,0 dB/km  
- 40 MHz 22,0 dB/km  
- 16,0 MHz 42,0 dB/km  
- Peak operating voltage 250 V  
- Test voltage 1500 V

**THERMAL & MECHANICAL PROPERTIES**  
- Temperature range stationary -30°C to +70°C  
- Cable diameter 10,2 ±0,2 mm  
- Cable weight appr. 95 kg/km  
- Copper index 25 kg/km  
- Minimum bending radius stationary 120 mm  
- UV resistant

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

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We reserve changes which serve technical progress • Copper base 150,00 € / 100,00 kg  
Price upon quantity-specific request
**APPLICATION**
The cable can be used as connecting cable in general machinery construction. It is used as connecting cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. The cable is applicable for use in drag chains due to strand construction and the PUR sheath.

**STANDARDS**
DIN 19245 T3; EN 50170 (acc. to Profibus specifications)

**CONSTRUCTION**
- **Conductor:** copper strand, bare (AWG 24/19)
- **Core insulation:** Foam-Skin PE
- **Core identification:** red, green
- **Core stranding:** 2 cores and 2 drain wires layed up
- **Lapping:** fleece
- **Screen:** Al/PETP compound foil; tinned copper wire braid (visual covering appr. 80%)
- **Sheath:** PUR; colour: violet RAL 4001

**ELECTRICAL CHARACTERISTICS**
- **(Conductor) loop resistance max.** 145 Ω/km
- **Insulation resistance min.** 1 GΩ x km
- **Char. impedance (3–20 MHz)** 150 ± 15 Ω
- **Mutual capacitance nom.** 30 nF/km
- **Attenuation max. at**
  - 9,6 kHz: 3,0 dB/km
  - 38,4 kHz: 5,0 dB/km
  - 4,0 MHz: 25,0 dB/km
  - 16,0 MHz: 49,0 dB/km
- **Peak operating voltage** 250 V
- **Test voltage** 1500 V

**THERMAL & MECHANICAL PROPERTIES**
- **Temperature range** -30°C to +70°C
- **Cable diameter** 8,0 ±0,2 mm
- **Cable weight appr.** 64 kg/km
- **Copper index** 28 kg/km
- **Min. bending radius during installation** 68 mm

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

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**PROFIBUS**
Bus-cable for Profibus
drag chain application • 1 x 2 x 0,64/2,50

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We reserve changes which serve technical progress • Copper base 150,00 € / 100,00 kg
Price upon quantity-specific request
**APPLICATION**
The cable can be used as connecting cable in general machinery construction. It is used as connecting cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. Together with the appropriate tools and connectors the cable is applicable for quick-assembly technology.

**STANDARDS**
DIN 19245 T3; EN 50170 (acc. to Profibus specifications)

**CONSTRUCTION**
- **Conductor**: copper wire, solid, bare (AWG 22/1)
- **Core insulation**: Foam-Skin PE
- **Core identification**: red, green
- **Core stranding**: 2 cores layed up
- **Sheath inside**: filling compound
- **Lapping**: plastic foil
- **Screen**: Al/PETP compound foil; tinned copper wire braid (visual covering appr. 80%)
- **Sheath**: PVC; colour: violet RAL 4001

**ELECTRICAL CHARACTERISTICS**
- (Conductor) loop resistance max. 115 Ω/km
- Insulation resistance min. 1 GΩ x km
- Characteristic impedance (3–20 MHz) 150 ± 15 Ω
- Mutual capacitance nom. 30 nF/km
- Attenuation max. at 9,6 kHz 2,5 dB/km
  - 38,4 kHz 4,0 dB/km
  - 4,0 MHz 22,0 dB/km
  - 16,0 MHz 42,0 dB/km
- Peak operating voltage 250 V
- Test voltage 1500 V
- **THERMAL & MECHANICAL PROPERTIES**
  - Temperature range stationary -30°C to +70°C
  - Cable diameter 7,8 ±0,2 mm
  - Cable weight appr. 70 kg/km
  - Copper index 25 kg/km
  - Minimum bending radius stationary 80 mm

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

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We reserve changes which serve technical progress • Copper base 150,00 € / 100,00kg
Price upon quantity-specific request
**APPLICATION**

The cable provides a cost-efficient solution for connecting various components in automation equipment. It serves especially for the connection of sensors/actuators in process automation (PA). The cable is applicable for fixed installation in dry and moist rooms.

**STANDARDS**

DIN 19245; EN 50170

**CONSTRUCTION**

**Conductor:** copper strand, bare, VDE 0295 Kl. 5

**Core insulation:** Foam-Skin PE

**Core identification:** red, green

**Core stranding:** 2 cores and 2 drain wires layed up

**Lapping:** plastic foil

**Screen:** tinned copper wire braid (visual covering appr. 80%)

**Sheath (inherently safe):** PVC; colour: blue RAL 5015

**Sheath (not inherently safe):** PVC, colour: black RAL 9005

**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Conductor) loop resistance max.</td>
<td>44 Ω/km</td>
</tr>
<tr>
<td>Insulation resistance min.</td>
<td>1 GΩx km</td>
</tr>
<tr>
<td>Characteristic impedance (31,25 kHz)</td>
<td>100 ± 20 Ω</td>
</tr>
<tr>
<td>Mutual capacitance nom.</td>
<td>50 nF/km</td>
</tr>
<tr>
<td>Attenuation max. at 39 kHz</td>
<td>3,0 dB/km</td>
</tr>
<tr>
<td></td>
<td>100 kHz</td>
</tr>
<tr>
<td></td>
<td>3,5 dB/km</td>
</tr>
<tr>
<td></td>
<td>1,0 MHz</td>
</tr>
<tr>
<td></td>
<td>12,0 dB/km</td>
</tr>
</tbody>
</table>

**THERMAL & MECHANICAL PROPERTIES**

- **Temperature range:** -20°C to +70°C
- **Cable diameter:** 8,0 ± 0,2 mm
- **Cable weight appr.:** 73 kg/km
- **Copper index:** 45 kg/km
- **Minimum bending radius stationary:** 80 mm

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

We reserve changes which serve technical progress • Copper base 150,00 € / 100,00 kg

Price upon quantity-specific request
APPLICATION
The cable provides a cost-efficient solution for connecting various components in automation equipment. The basic element is a twisted two-wire line. Elaborate parallel wiring can be avoided since all bus components are bonded over the basic element.

STANDARDS
DIN 19258

CONSTRUCTION
Conductor: copper strand, bare (AWG 24/7)
Core insulation: PE
Core identification: acc. to DIN 47100
Core stranding: 2 cores to pair, pairs layed up to cable core
Lapping: plastic foil
Screen: tinned copper wire braid (visual covering appr. 80 %)
Sheath: PVC; colour: violet RAL 4001

Minimum order quantities may be required where the requested product does not meet our standard manufaturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

ELECTRICAL CHARACTERISTICS
(Conductor) loop resistance max. 186 Ω/km
Insulation resistance min. 5 GΩ x km
Characteristic impedance (1 MHz) 100 Ω ± 15 Ω
Mutual capacitance nom. 50 nF/km
Attenuation max. at 0,256 MHz 1,5 dB/100 m
0,772 MHz 2,4 dB/100 m
1 MHz 2,7 dB/100 m
4 MHz 5,2 dB/100 m
10 MHz 8,4 dB/100 m
16 MHz 11,2 dB/100 m
20 MHz 11,9 dB/100 m
Bit rates/Lengths 9,6 – 93,75 kBit/s 1200 m
187,5 kBit/s max. 1000 m
500 kBit/s max. 400 m
10 MBit/s max. 10 m

THERMAL & MECHANICAL PROPERTIES
Temperature range -30°C to +70°C
Minimum bending radius stationary 10 x diameter

<table>
<thead>
<tr>
<th>dimension</th>
<th>diameter [approx. mm]</th>
<th>cable weight [kg/km]</th>
<th>copper index [kg/km]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 2 x 0,22</td>
<td>5,7</td>
<td>30</td>
<td>15</td>
</tr>
<tr>
<td>2 x 2 x 0,22</td>
<td>7,1</td>
<td>50</td>
<td>28</td>
</tr>
<tr>
<td>3 x 2 x 0,22</td>
<td>7,2</td>
<td>70</td>
<td>36,5</td>
</tr>
</tbody>
</table>

We reserve changes which serve technical progress • Copper base 150,00 € /100,00 kg
Price upon quantity-specific request
**APPLICATION**
Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cables are applicable for fixed installation in dry and moist rooms.

**STANDARDS**
ISO 11898, EN 50170
UL/CSA Approbation Type CMX

**CONSTRUCTION**
Conductor: copper strand, bare
Core insulation: Foam-Skin PE
Core identification: acc. to DIN 47100
Core stranding: 1PR: 2 cores twinned to pairs; 2PR: 2 cores to pair, pairs layed up to cable core
Lapping: plastic foil
Screen: tinned copper wire braid (visual covering appr. 80%)
Sheath: PVC; colour: violet RAL 4001

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

**ELECTRICAL CHARACTERISTICS**
- Loop resistance (0,22) max. 186Ω/km
- Loop resistance (0,34) max. 116Ω/km
- Loop resistance (0,5) max. 79Ω/km
- Loop resistance (0,75) max. 52Ω/km
- Insulation resistance min. 1 GΩ x km
- Characteristic impedance (1 MHz) 120Ω ± 15%
- Mutual capacitance nom. 40 nF/km
- Peak operating voltage 250V
- Test voltage 1500V

**THERMAL & MECHANICAL PROPERTIES**
- Temperature range -30°C to +70°C
- Minimum bending radius stationary 10 x diameter

**DIMENSIONS**

<table>
<thead>
<tr>
<th>dimension</th>
<th>diameter approx.</th>
<th>cable weight ca. kg/km</th>
<th>copper index kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 2 x 0,22 AWG24/7</td>
<td>6,0</td>
<td>42</td>
<td>16,7</td>
</tr>
<tr>
<td>1 x 2 x 0,34 AWG22/7</td>
<td>6,8</td>
<td>55</td>
<td>22,1</td>
</tr>
<tr>
<td>1 x 2 x 0,5 AWG20/7</td>
<td>7,5</td>
<td>90</td>
<td>41,3</td>
</tr>
<tr>
<td>1 x 2 x 0,75 VDE 0295 Kl.5</td>
<td>8,7</td>
<td>108</td>
<td>52,7</td>
</tr>
<tr>
<td>2 x 2 x 0,22 AWG24/7</td>
<td>7,6</td>
<td>68</td>
<td>34,8</td>
</tr>
<tr>
<td>2 x 2 x 0,34 AWG22/7</td>
<td>8,5</td>
<td>88</td>
<td>46,4</td>
</tr>
<tr>
<td>2 x 2 x 0,5 AWG20/7</td>
<td>9,7</td>
<td>106</td>
<td>59,4</td>
</tr>
<tr>
<td>2 x 2 x 0,75 VDE 0295 Kl.5</td>
<td>11,8</td>
<td>142</td>
<td>80,6</td>
</tr>
</tbody>
</table>

We reserve changes which serve technical progress • Copper base 150,00 € / 100,00 kg
Price upon quantity-specific request
**APPLICATION**
Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cables are applicable for ultraflexible use.

**STANDARDS**
ISO 11898, EN 50170
UL/CSA Approval Type CMX

**CONSTRUCTION**
- **Conductor**: copper strand, bare, fine-wired: 32 x 0,1 (0,25); 42 x 0,1 (0,34); 64 x 0,1 (0,5)
- **Core insulation**: Foam-Skin PE
- **Core identification**: acc. to DIN 47100
- **Core stranding**: 1PR: 2 cores twinned to pairs; 2PR: 2 cores to pair, pairs laid up to cable core
- **Lapping**: fleece
- **Screen**: tinned copper wire braid (visual covering appr. 80%)
- **Sheath**: PUR; colour: violet RAL 4001

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

**ELECTRICAL CHARACTERISTICS**
- **Loop resistance (0,25) max.**: 160 Ω/km
- **Loop resistance (0,34) max.**: 116 Ω/km
- **Loop resistance (0,50) max.**: 79 Ω/km
- **Insulation resistance min.**: 1 GΩ x km
- **Characteristic impedance (1 MHz)**: 120 Ω ± 15%
- **Mutual capacitance nom.**: 40 nF/km
- **Peak operating voltage**: 250 V
- **Test voltage**: 1500 V

**THERMAL & MECHANICAL PROPERTIES**
- **Temperature range**: -30°C to +70°C
- **Min. bending radius during installation**: 15 x diameter
- **Flammability**: IEC 60332-1-2

<table>
<thead>
<tr>
<th>dimension</th>
<th>diameter (appr.)</th>
<th>cable weight (ca. kg/km)</th>
<th>copper index (kg/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 2 x 0,25</td>
<td>6,6</td>
<td>40</td>
<td>17,5</td>
</tr>
<tr>
<td>1 x 2 x 0,34</td>
<td>6,8</td>
<td>60</td>
<td>32,8</td>
</tr>
<tr>
<td>1 x 2 x 0,5</td>
<td>8,0</td>
<td>74</td>
<td>41,9</td>
</tr>
<tr>
<td>2 x 2 x 0,25</td>
<td>8,4</td>
<td>70</td>
<td>41,3</td>
</tr>
<tr>
<td>2 x 2 x 0,34</td>
<td>9,6</td>
<td>88</td>
<td>52,4</td>
</tr>
<tr>
<td>2 x 2 x 0,5</td>
<td>11,0</td>
<td>100</td>
<td>59,4</td>
</tr>
</tbody>
</table>

We reserve changes which serve technical progress • Copper base 150,00 € / 100,00 kg
Price upon quantity-specific request
# Voka-Lonwork F/UTP 1x2xAWG 22/1 FRNC

## Application
Data cable for analogue and digital signal transmission in LON networks and for building automation.

## Standards
- EN 50288-5-1; ISO/IEC 11801 2nd edition; IEC 61156-5
- EN 60332-1-2; EN 61034; EN 50267; IEC 60754-2; IEC 61034

## Construction
- **Conductor**: copper, solid, bare, AWG 22/1
- **Core insulation**: PE
- **Core identification**: colour code acc. to IEC 708-1; 1PR: whbu-bu; 2PR: whbu-bu, whor-or
- **Core stranding**: 2 cores twinned to pairs
- **Screen**: plastic-laminated aluminium foil, drain wire (AWG 26, tinned)
- **Sheath**: halogen-free compound (FRNC); colour: white RAL 9010

## Chemical Properties
- IEC 60811-2-1 (IRM 902, 4h at 70°C)
- RoHS 2002/95/EC

## Electrical Characteristics
- **Loop resistance max. (VDE 0812)**: 110 Ω/km
- **Resistance unbalance max.**: 5%
- **Insulation resistance min. (20°C)**: 5 GΩ x km
- **Characteristic impedance (0,772 MHz)**: 102 Ω ± 15%
- **Characteristic impedance (1 – 20 MHz)**: 100 Ω ± 15%
- **Mutual capacitance nom.**: 48 nF/km
- **Attenuation max. at**:
  - 0,772 MHz: 1,46 dB/100 m
  - 1 MHz: 1,79 dB/100 m
  - 4 MHz: 3,67 dB/100 m
  - 8 MHz: 4,87 dB/100 m
  - 10 MHz: 5,52 dB/100 m
  - 16 MHz: 7,14 dB/100 m
  - 20 MHz: 7,80 dB/100 m
- **NEXT (2PR)**:
  - 0,772 MHz: 85 dB/100 m
  - 1 MHz: 80 dB/100 m
  - 4 MHz: 78 dB/100 m
  - 8 MHz: 75 dB/100 m
  - 10 MHz: 73 dB/100 m
  - 16 MHz: 70 dB/100 m
  - 20 MHz: 67 dB/100 m
- **Relative propagation velocity**: ca. 0,67 c
- **Test voltage**: 700 V
- **THERMAL & MECHANICAL PROPERTIES**
  - **Temperature range stationary**: -20°C to +75°C
  - **Temperature range during installation**: 0°C to +50°C
  - **Core diameter 1PR**: 1,62 ± 0,02 mm
  - **Core diameter 2PR**: 1,39 ± 0,02 mm
  - **Cable diameter 1PR**: 4,6 ± 0,2 mm
  - **Cable diameter 2PR**: 6,5 ± 0,2 mm
  - **Min. bending radius stationary**: 5 x diameter
  - **Min. bending radius during installation**: 10 x diameter
  - **Maximum traction**: 80 N

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We reserve changes which serve technical progress • Copper base 150,00 € / 100,00 kg
Price upon quantity-specific request
**APPLICATION**
For use in bus systems (EIB - European Installaton Bus) and as ICA cable in power installations. Laying in/on plaster, even in moist and wet rooms. Not approved for power and underground installation.

**CONSTRUCTION**
- **Conductor**: copper, solid, bare
- **Core insulation**: PVC or halogen-free compound
- **Core stranding**: cores stranded to star-quads
- **Lapping**: plastic foil
- **Screen**: plastic-laminated aluminium foil, drain wire
- **Sheath**: PVC (J-Y(St)Yh) or halogen-free compound (J-H(St)Hh); colour: green RAL 6017

**ELECTRICAL CHARACTERISTICS**
- (Conductor) loop resistance max. 73,2 Ω/km
- Insulation resistance min. 100 MΩ x km
- Mutual capacitance max. 100 nF/km
- Capacitance unbalance C1 max. 200 pF/100 m
- Peak operating voltage 300 V
- Test voltage conductor - sheath 4 kV 50 Hz 1 Min.

**THERMAL & MECHANICAL PROPERTIES**
- Temperature range stationary -30°C to +70°C
- Cable diameter 6,2 ± 0,2 mm
- Cable weight ca. 64 kg/km
- Copper index 21 kg/km
- Minimum bending radius 7,5 x diameter

We reserve changes which serve technical progress • Copper base 150,00 €/100,00 kg
Price upon quantity-specific request
**ASI BUS-cable**

**APPLICATION**
This fieldbus facilitates simultaneous data and energy transmission. Application in signalling circuits in production facilities and machine tools.

**CONSTRUCTION**
- **Conductor:** El-copper strand, tinned, 84 x 0,15 mm (1,50 mm²)
- **Core insulation:** TPE-O
- **Core identification:** bu, bn
- **Sheath:** TPE-O; colour: yellow RAL 1023; imprint: optional

**ELECTRICAL CHARACTERISTICS**
- (Conductor) loop resistance max. 57,1 Ω/km
- Insulation resistance min. (20°C) 20 MΩ x km
- Characteristic impedance 100 ± 15 Ω
- Capacitance (1 kHz) 80 pF/m
- Peak operating voltage 300 V
- Test voltage core-core min. 2 kV 50 Hz 1 Min.

**THERMAL & MECHANICAL PROPERTIES**
- Temperature range stationary -40°C to +105°C
- Temperature range during installation -30°C to +105°C
- Core diameter 2,5 ± 0,1 mm
- Cable diameter 4,0 ± 0,2 mm
- Cable grid 3,6 ± 0,2 mm
- Cable width 1 10,0 ± 0,2 mm
- Cable width 2 6,5 ± 0,2 mm
- Shore hardness (A) 56 ± 3

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

We reserve changes which serve technical progress - Copper base 150,00 € / 100,00 kg
Price upon quantity-specific request

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ASI BUS-cable

Bu S-c ABLe S
APPlICA tIon
This fieldbus facilitates simultaneous data and energy transmis-
sion. Application in signalling circuits in production facilities
and machine tools.

Con Stru CtIon
Conductor: El-copper strand, tinned, 84 x 0,15 mm
(1,50 mm²)
Core insulation: TPE-O
Core identification: bu, bn
Sheath: TPE-O; colour: yellow RAL 1023; imprint: optional

ElECtrICA l CHA rACtIStICS
(Conductor) loop resistance max. 57,1 Ω/km
Insulation resistance min. (20°C) 20 MΩ x km
Characteristic impedance 100 ± 15 Ω
Capacitance (1 kHz) 80 pF/m
Peak operating voltage 300 V
Test voltage core-core min. 2 kV 50 Hz 1 Min.

THERMAL & MECHANICAL PROPERTIES
Temperature range stationary -40°C to +105°C
Temperature range during installation -30°C to +105°C
Core diameter 2,5 ± 0,1 mm
Cable diameter 4,0 ± 0,2 mm
Cable grid 3,6 ± 0,2 mm
Cable width 1 10,0 ± 0,2 mm
Cable width 2 6,5 ± 0,2 mm
Shore hardness (A) 56 ± 3

Minimum order quantities may be required where the requested product does not meet our standard manufacturing minimums or is not indicated in the order. Shipping will always be made in the standard manufactured lengths or unless precisely requested.

We reserve changes which serve technical progress - Copper base 150,00 € / 100,00 kg
Price upon quantity-specific request
CABLES MADE IN GERMANY