BUS & Ethernet Cables
Bus & Ethernet Cables Contents

**AS-I™ (Actuator-Sensor-Interface Cable - AS International)**

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<td>H3</td>
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<td>818 - 819</td>
<td>PROFIBUS-L2/FIP-PUR - UL/CSA SHLD PUR Flexible Bus Cable- Purple</td>
<td>H3</td>
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<td>863</td>
<td>PROFIBUS-L2/FIP-PUR-QC - UL/CSA SHLD PUR Quick-Connect Bus Cable- Purple</td>
<td>H3</td>
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</table>

**INTERBUS™ (Interbus Systems by Phoenix Contact)**

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<td>H4</td>
</tr>
</tbody>
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**DEVICENET™ (developed by Allen Bradley / Rockwell Automation)**

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<td>H5</td>
</tr>
</tbody>
</table>

**CAN-BUS (Controller Area Network Cables)**

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<tr>
<td>841</td>
<td>CAN-BUS-PUR - UL/CSA SHLD PUR High-Flex CAN-BUS Cable- Purple</td>
<td>H6</td>
</tr>
</tbody>
</table>

**SAFETYBUS® (SafetyBUS - Pilz GmbH & Co.)**

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<tr>
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</tr>
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<tbody>
<tr>
<td>850</td>
<td>SAFETYBUS-PUR - SHLD PUR Stationary Safety-Bus Cable- Yellow</td>
<td>H7</td>
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<tr>
<td>851</td>
<td>SAFETYBUS-PUR-EF - SHLD PUR High-Flex Safety-Bus Cable- Yellow</td>
<td>H7</td>
</tr>
<tr>
<td>852</td>
<td>SAFETYBUS-PVC-UL - UL/CSA SHLD PVC Stationary Safety-Bus Cable- Yellow</td>
<td>H7</td>
</tr>
</tbody>
</table>
AS-I BUS Yellow or Black

AS-I - Actuator-Sensor-Interface is a special system cable. With AS-I, the cable assembly from the control system is not needed. AS-I cables are used in network systems for the lowest field level of automation and communication technology. This flat cable consists of two cores which transmit both data and power. The contact is made by special technology by piercing through the outer jacket and core insulation with AS-I modules. A specially designed grooved jacket ensures installations and connection errors are minimized. The jacket provides resistance to oils, grease and refrigeration lubricants. AS-I versions in TPE and PUR are suitable for wet surroundings in machinery, plant construction, machine tools and automotive industry.

Construction:
- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Special PVC or rubber-based core insulation
- Color code VDE-0293 (blue & brown)
- Cores laying parallel
- PVC, EPDM, PUR or TPE outer jacket
- Special notch in outer jacket
- Yellow (like RAL 1023) or Black (RAL 9005)
- Extremely oil & chemical resistant

Technical:
- Working voltage: 300 volts
- Test voltage: 2000 volts
- Flexing bending radius: 6 x Ø
- Static bending radius: 3 x Ø
- EPDM temp: -40º C to +85º C
- TPE temp: -40º C to +105º C
- PVC temp: -30º C to +90º C
- PUR temp: -40º C to +85º C
- Flame retardant: IEC 60332.1
- Insulation resistance: 100 MΩ x km
- Impedance: 70-140Ω

Approvals:
- AS International standards
- EN 50295
- IEC 62026-2
- UL 758 & CSA (PVC + TPE Only)
- ROHS compliant

*Other constructions and colors may be available.

© AS-I is a registered trademark of AS International.
PROFIBUS® PVC or PUR

PROFIBUS-PVC / PROFIBUS-PUR are field bus cables that connect digital field devices at the sensor/actuator level to higher level components. Used for linking industrial field-bus systems in automation and communication technology. The stationary PVC and high flex polyurethane versions are both made with a copper braid and a foil shield for better electromagnetic protection and have excellent data transmission characteristics. For use in fieldbus systems such as SUCOnet-P®, Modulink-P®, VariNet® and other field bus systems. All cables have a flame retardant violet colored jacket with or without UL/CSA approvals.

**Construction:**
- Fine bare copper strands
- 7-wire strands for PVC versions
- Strands to VDE-0295 Class-5 for PUR versions
- Special polyethylene core insulation
- Color code DIN 47100 pairs
- Twisted pair configuration
- Special foil wrapping over inners
- Tinned copper braid shield
- PVC or PUR outer jacket
- Violet (RAL 4001)

**Technical:**
- Working voltage: 250 volts
- Test voltage: 1500 volts
- PVC bending radius: 8 x Ø
- PUR bending radius: 15 x Ø
- Static PVC temp: -40º C to +70º C
- Static PUR temp: -30º C to +70º C
- Flame retardant: IEC 60332.1-2
- Insulation resistance: 20 MΩ x km
- Impedance: 100-120 Ω
- Mutual Cap (800 Hz): max 60nF/km

**Approvals:**
- DIN 19245 T3, EN 50170
- UL style 2571
- UL/CSA type CMX
- ROHS compliant

---

### PART NUMBER | PAIRS | NOMINAL OD | CU LBS/MFT | WT LBS/MFT
---|---|---|---|---
**PROFIBUS-PVC (STATIONARY)**

#### 24 AWG (7/30) 0.22mm² PVC

- 8102401 1 0.224" / 5.7mm 12 25
- 8102402 2 0.280" / 7.1mm 16 30
- 8102403 3 0.283" / 7.2mm 24 48

#### 24 AWG (7/30) 0.22mm² PVC UL/CSA

- 8122401 UL/CSA 1 0.232" / 5.9mm 12 26
- 8122402 UL/CSA 2 0.287" / 7.3mm 16 32
- 8122403 UL/CSA 3 0.291" / 7.4mm 24 51

### PART NUMBER | PAIRS | NOMINAL OD | CU LBS/MFT | WT LBS/MFT
---|---|---|---|---
**PROFIBUS-PUR (HIGH FLEX)**

#### 24 AWG (14/34) 0.25mm² PUR

- 8112401 1 0.248" / 6.3mm 12 26
- 8112402 2 0.331" / 8.4mm 16 44
- 8112403 3 0.343" / 8.7mm 24 52

#### 24 AWG (14/34) 0.25mm² PUR UL/CSA

- 8132401 UL/CSA 1 0.256" / 6.5mm 12 26
- 8132402 UL/CSA 2 0.339" / 8.6mm 16 44
- 8132403 UL/CSA 3 0.343" / 8.7mm 24 52

---

SUCOnet-P® is a registered trademark of Moeller-Groupe.
Modulink-P® is a registered trademark of Weidmuller GmBH.
VariNet® is a registered trademark of Pepperl & Fuchs GmbH.
© Profibus is a registered trademark of Profibus NutzerOrganisation (PNO).
PROFIBUS® L2/FIP

PROFIBUS-L2/FIP are fieldbus cables designed for use in FIP (Factory Instrumentation Protocol) and SINEC-L2 field bus systems and other high performance fieldbus networks. Available in PVC and halogen-free for stationary applications and polyurethane (PUR) for continuous flexing applications. All versions are available with a tinned copper braid and foil shield for excellent protection against electromagnetic interferences and have exceptional data transmission characteristics. All cables have an oil-resistant and flame retardant violet colored jacket. The L2/FIP bus cable in PVC and polyurethane are available in a Quick Connect version (QC).

### Construction:
- Fine bare copper strands
- Strands to VDE-0295 Class-5 for PUR versions
- 7-wire strands noted (for vibration issues)
- Special polyethylene core insulation
- Color code DIN 47100 pair (red & green)
- Twisted pair configuration
- Special foil wrapping over inners
- Tinned copper braid shield
- PVC or PUR outer jacket
- Violet (RAL 4001)

### Technical:
- Working voltage: 250 volts
- Test voltage: 1500 volts
- PVC bending radius: 8 x Ø
- PUR bending radius: 15 x Ø
- Static PVC temp: -40º C to +80º C
- Flexing PUR temp: -5º C to +70º C
- Flame retardant: IEC 60332.1-2
- Loop resistance: 110 Ω / km
- Impedance: 150 Ω (+/- 15 Ω)
- Mutual Cap (800 Hz): max 30nF/km

### Approvals:
- DIN 19245, EN 50170
- UL style 2571
- UL/CSA type CMG
- ROHS compliant

### PART NUMBER PAIRS NOMINAL OD CU LBS/MFT WT LBS/MFT

#### PROFIBUS-PVC L2/FIP (STATIONARY)

<table>
<thead>
<tr>
<th>22 AWG (0.64mm) PVC</th>
<th></th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>8142201 L2/FIP</td>
<td>1</td>
<td>0.299” / 7.6mm</td>
<td>20</td>
<td>38</td>
</tr>
<tr>
<td>8152201 L2/FIP UL/CSA</td>
<td>1</td>
<td>0.299” / 7.6mm</td>
<td>18</td>
<td>38</td>
</tr>
<tr>
<td>8162201 L2/FIP 7-WIRE</td>
<td>1</td>
<td>0.315” / 8.0mm</td>
<td>18</td>
<td>36</td>
</tr>
<tr>
<td>8172201 L2/FIP UL/CSA HF</td>
<td>1</td>
<td>0.307” / 7.8mm</td>
<td>17</td>
<td>36</td>
</tr>
<tr>
<td>8602201 L2/FIP UL/CSA QC</td>
<td>1</td>
<td>0.315” / 8.0mm</td>
<td>17</td>
<td>36</td>
</tr>
<tr>
<td>8612201 L2/FIP UL/CSA HF QC</td>
<td>1</td>
<td>0.315” / 8.0mm</td>
<td>17</td>
<td>36</td>
</tr>
</tbody>
</table>

#### PROFIBUS-PUR L2/FIP (HIGH FLEX)

<table>
<thead>
<tr>
<th>22 AWG (0.64mm) PUR</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>8182201 L2/FIP</td>
<td>1</td>
<td>0.315” / 8.0mm</td>
<td>20</td>
<td>43</td>
</tr>
<tr>
<td>8192201 L2/FIP UL/CSA</td>
<td>1</td>
<td>0.315” / 8.0mm</td>
<td>20</td>
<td>43</td>
</tr>
<tr>
<td>8632201 L2/FIP UL/CSA QC</td>
<td>1</td>
<td>0.315” / 8.0mm</td>
<td>17</td>
<td>42</td>
</tr>
</tbody>
</table>

7-Wire - Stranded version made up of 7-wire stranded cores for use when vibrations occur.
HF - a halogen-free jacket is used replacing the common PVC, stranding is also 7-wire, also meets IEC 60332.3
QC - 2 single bare copper cores allows for quick connect to an IDC connector.

QC - 2 single bare copper cores allows for quick connect to an IDC connector.

© Profibus is a registered trademark of Profibus NutzerOrganisation (PNO).
INTERBUS® (IBS) are bus cables designed for use in high speed control requirements. INTERBUS® cables function as communication vehicles between control level devices such as PLC’s and numerous lower level devices, sensors and actuators. These cables deliver precise data transmissions required by today’s demanding manufacturing and process environments. INTERBUS® cables are available for stationary (PVC), high flex (PUR) and outdoor (special black PVC) applications. All have a tinned copper braid and foil shield for better electromagnetic protection and a flame retardant violet jacket to INTERBUS® conformance requirements. The outdoor version has a UV-resistant black PVC jacket for direct burial.

**Construction:**
- Bare copper 7-wire strands for PVC versions
- Bare strands to VDE-0295 Class-5 for PUR
- Special polyethylene core insulation
- Color code DIN 47100 pairs
- Twisted pair configuration
- Special foil wrapping over inners
- Tinned copper braid shield
- PVC or PUR outer jacket
- Violet (RAL 4001)
- Outdoor version reinforced PVC jacket
- Black (RAL 9005)

**Technical:**
- Working voltage: 250 volts
- Test voltage: 1500 volts
- PVC bending radius: 8 x Ø
- PUR bending radius: 15 x Ø
- Static PVC temp: -40° C to +70° C
- Flexing PUR temp: -40° C to +70° C
- Flame retardant: IEC 60332.1, VW-1
- Loop resistance: 186 Ω / km
- Impedance: 100 Ω
- Mutual Cap (800 Hz): max 60nF/km

**Approvals:**
- DIN 19258, EN 50254
- IEC 61158
- UL style 2571
- UL/CSA type CMX
- ROHS compliant

**PART NUMBER**
**PAIRS**
**NOMINAL OD**
**CU LBS/MFT**
**WT LBS/MFT**

**INTERBUS-PVC UL/CSA (STATIONARY)**
24 AWG (0,22mm²)
PVC

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAIRS</th>
<th>NOMINAL OD</th>
<th>CU LBS/MFT</th>
<th>WT LBS/MFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>8202403</td>
<td>3</td>
<td>0.283” / 7.2mm</td>
<td>25</td>
<td>48</td>
</tr>
<tr>
<td>8202409 *</td>
<td>3+</td>
<td>0.311” / 7.9mm</td>
<td>40</td>
<td>57</td>
</tr>
<tr>
<td>8232403 UL/CSA</td>
<td>3</td>
<td>0.283” / 7.2mm</td>
<td>25</td>
<td>48</td>
</tr>
<tr>
<td>8232409 UL/CSA</td>
<td>3+</td>
<td>0.311” / 7.9mm</td>
<td>40</td>
<td>57</td>
</tr>
</tbody>
</table>

* "3+" denotes 3/pr cable with a #17-3/c power cable. Color code: Red, Blue, Green/Yellow

**INTERBUS-PUR UL/CSA (HIGH FLEX)**
24 AWG (0,25mm²)
PUR

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAIRS</th>
<th>NOMINAL OD</th>
<th>CU LBS/MFT</th>
<th>WT LBS/MFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>8212403</td>
<td>3</td>
<td>0.311” / 7.4mm</td>
<td>26</td>
<td>43</td>
</tr>
<tr>
<td>8212409 *</td>
<td>3+</td>
<td>0.311” / 7.9mm</td>
<td>42</td>
<td>62</td>
</tr>
<tr>
<td>8242403 UL/CSA</td>
<td>3</td>
<td>0.311” / 7.4mm</td>
<td>26</td>
<td>43</td>
</tr>
<tr>
<td>8242409 UL/CSA</td>
<td>3+</td>
<td>0.311” / 7.9mm</td>
<td>42</td>
<td>62</td>
</tr>
</tbody>
</table>

* "3+" denotes a 3/pr cable with a #17-3/c power cable. Color code: Red, Blue, Green/Yellow

**INTERBUS-PVC-OD UL/CSA (OUTDOOR)**
24 AWG (0,22mm²)
Black

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PAIRS</th>
<th>NOMINAL OD</th>
<th>CU LBS/MFT</th>
<th>WT LBS/MFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>8222403</td>
<td>3</td>
<td>0.366” / 9.3mm</td>
<td>25</td>
<td>63</td>
</tr>
<tr>
<td>8222409 *</td>
<td>3+</td>
<td>0.370” / 9.4mm</td>
<td>41</td>
<td>85</td>
</tr>
<tr>
<td>8252403 UL/CSA</td>
<td>3</td>
<td>0.366” / 9.3mm</td>
<td>25</td>
<td>63</td>
</tr>
<tr>
<td>8252409 UL/CSA</td>
<td>3+</td>
<td>0.370” / 9.4mm</td>
<td>41</td>
<td>85</td>
</tr>
</tbody>
</table>

* "3+" denotes a 3/pr cable with a #17-3/c power cable. Color code: Red, Blue, Green/Yellow
** Outdoor versions have a UV-resistant black PVC jacket, approved for direct burial.

© InterBus is a registered trademark of Phoenix Contact GmbH & Co.
DEVICENET® is a bus system developed by Allen-Bradley (Rockwell Automation) that connects industrial devices such as limit switches, photo-electric switches, variable frequency drives, motor starters, valve islands, PLC’s or any other on-line bus system component. There are two versions of Trunk (Thick) and Drop (Thin) available for stationary or high flexing applications designed for easier installations and resistance to vibration fatigue. All DEVICENET® cables contain one data pair and one power pair. Available in violet or gray PVC and violet polyurethane (PUR) jackets. Conforms to ODVA international standards.

**Construction:**
- Stranded tinned copper
- VDE-0295 Class-5 strand for PUR versions
- Special polyethylene core insulation
- Color code - data (blue/white) power (red/black)
- Twisted pair configuration
- Special foil wrapping over each pair
- Overall tinned copper braid shield
- Both pairs use a common drain wire
- PVC, PUR or halogen-free outer jacket
- Violet (RAL 4001)

**Technical:**
- Working voltage: 300 volts
- Test voltage: 2000 volts
- Static bending radius: 15 x Ø
- Flexing bending radius: 15 x Ø
- Static PVC temp: -20º C to +80º C
- Flexing PUR temp: -40º C to +80º C
- Flame retardant: IEC 60332.1-2
- Loop resistance: 45 Ω / km (thick)
- Loop resistance: 180 Ω / km (thin)
- Impedance: 120 Ω
- Mutual Cap (800 Hz): max 40nF/km

**Approvals:**
- UL/CSA type CMG
- UL/CSA type CMX for PUR version
- ROHS compliant

**PART NUMBER** | **AWG** | **PAIRS** | **NOMINAL OD** | **CU LBS/MFT** | **WT LBS/MFT**
--- | --- | --- | --- | --- | ---
**STATIONARY APPLICATIONS**
PVC (UL/CSA CMG)
8301815  | 18  | 1  | 0.480” / 12.2mm | 60  | 125  
Trunk / Thick  | 15  | 1  
8302422  | 24  | 1  | 0.283” / 7.2mm | 22  | 46   
Drop / Thin  | 22  | 1  

Halogen-Free (UL/CSA CMG)
8321815  | 18  | 1  | 0.480” / 12.2mm | 60  | 125  
Trunk / Thick  | 15  | 1  
8322422  | 24  | 1  | 0.283” / 7.2mm | 22  | 46   
Drop / Thin  | 22  | 1  

**HIGH FLEX APPLICATIONS**
PVC (UL/CSA CMG)
8311815  | 18  | 1  | 0.480” / 12.2mm | 60  | 125  
Trunk / Thick  | 15  | 1  
8312422  | 24  | 1  | 0.272” / 6.9mm | 22  | 46   
Drop / Thin  | 22  | 1  

Polyurethane (UL/CSA CMX)
8331815  | 18  | 1  | 0.720” / 18.3mm | 60  | 130  
Trunk / Thick  | 15  | 1  
8332422  | 24  | 1  | 0.409” / 10.4mm | 22  | 49   
Drop / Thin  | 22  | 1  

© DeviceNet is a registered trademark of Open DeviceNet Vendor Association - ODVA (USA).
CAN-BUS PVC or PUR

CAN-BUS-PVC and CAN-BUS-PUR (Controller Area Network) are field bus cables that conform to international CAN standard ISO-11898. These bus cables are UL/CSA type CMX approved and are for use on high performance data networks with 120 Ohms nominal impedance. Well suited for use on high-speed motion control and feedback loop applications. The PVC jacketed version is designed for stationary applications, while the halogen-free polyurethane (PUR) version is for high flexing applications. Both versions have a foil wrap and a tinned copper braid shield for better electromagnetic protection. CAN-BUS cables are suitable in dry or damp indoor areas.

**Construction:**
- 7-wire strands of bare copper for PVC versions
- VDE-0295 Class-5 strands for PUR versions
- Special polyethylene core insulation
- Color code DIN 47100 pairs
- Twisted pair configuration
- Special foil wrapping over inners
- Tinned copper braid shield
- PVC or halogen-free PUR outer jacket
- Violet (RAL 4001)

**Technical:**
- Working voltage: 250v (UL 300v)
- Test voltage: 3000v (UL 2000v)
- Static bending radius: 8 x Ø
- Flexing bending radius: 10 x Ø
- Static PVC temp: -30°C to +70°C
- Flexing PUR temp: -40°C to +75°C
- Flame retardant: IEC 60332.1-2
- Loop resistance: 52 Ω / km
- Impedance: 120 Ω (+/- 15 Ω)
- Mutual Cap (800 Hz): max 45nF/km

**Approvals:**
- UL type CMX
- CSA type CMX
- ROHS compliant

**PART NUMBER PAIRS NOMINAL OD CU LBS/MFT WT LBS/MFT**

**CAN-BUS-PVC UL/CSA (STATIONARY)**

<table>
<thead>
<tr>
<th>AWG</th>
<th>Strands</th>
<th>OD</th>
<th>CU</th>
<th>WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>7</td>
<td>0.224&quot; / 5.7mm</td>
<td>11</td>
<td>28</td>
</tr>
<tr>
<td>22</td>
<td>7</td>
<td>0.299&quot; / 7.6mm</td>
<td>23</td>
<td>46</td>
</tr>
<tr>
<td>20</td>
<td>7</td>
<td>0.335&quot; / 8.5mm</td>
<td>31</td>
<td>59</td>
</tr>
<tr>
<td>19</td>
<td>7</td>
<td>0.343&quot; / 8.7mm</td>
<td>35</td>
<td>73</td>
</tr>
</tbody>
</table>

**CAN-BUS-PUR UL/CSA (HIGH FLEX)**

<table>
<thead>
<tr>
<th>AWG</th>
<th>Strands</th>
<th>OD</th>
<th>CU</th>
<th>WT</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
<td>14/34</td>
<td>0.252&quot; / 6.4mm</td>
<td>12</td>
<td>27</td>
</tr>
<tr>
<td>22</td>
<td>19/34</td>
<td>0.268&quot; / 6.8mm</td>
<td>22</td>
<td>40</td>
</tr>
<tr>
<td>20</td>
<td>16/32</td>
<td>0.315&quot; / 8.0mm</td>
<td>28</td>
<td>50</td>
</tr>
</tbody>
</table>

The Mueller Group Inc.
European Wire & Cable Specialists

Tel: 888.882.4638 | Fax: 847.882.9566 | www.mueller-group.net
**SAFTEYBUS-PUR**

**SAFTEYBUS-PUR** are bus cables for systems with serial transmissions of relevant safety or safety-related data from direct connection to multiple sensors, actuators and safety controls. With transmission rates up to 500kBits/Second, **SAFTEYBUS-PUR** ensures a short reaction time for event orientated transmissions. For use on SafetyBUS-P® and well known CAN networks found in most process automations. The halogen-free polyurethane outer jacket is designated yellow in color for safety by DESINA and other plant standards. The special UL/CSA version is only available with a yellow PVC outer jacket.

### Construction:
- 18 strands of bare copper
- Special polypropylene core insulation
- Color code DIN 47100 (white, brown, green)
- Twisted core configuration
- Special foil wrapping over inners
- Tinned copper braid shield
- Halogen-free PUR outer jacket
- Yellow (RAL 1003)

- Special PVC jacket for UL/CSA version
- Yellow (RAL 1003)

### Technical:
- Working voltage: 250v (UL 300v)
- Test voltage: 3000v (UL 2000v)
- Static bending radius: 10 x Ø
- Flexing bending radius: 15 x Ø
- Static PVC temp: -30º C to +80º C
- Flexing PUR temp: -40º C to +80º C
- Flame retardant: IEC 60332.1-2
- Loop resistance: 52 Ω / km
- Impedance: 120 Ω
- Mutual Cap (800 Hz): max 45nF/km

### Approvals:
- UL/CSA style 2464 (PVC Only)
- DESINA
- ROHS compliant

### PART NUMBER | CORES | NOMINAL OD | CU LBS/MFT | WT LBS/MFT
---|---|---|---|---
**SAFETYBUS PUR (STATIONARY)**
18 AWG (0.75mm2)
- 8501803 3 0.299” / 7.6mm 32 45
- 8521903* (PVC - UL/CSA) 3 0.315” / 8.0mm 32 61

*Yellow PVC jacket with UL/CSA AWM Approvals to Style 2464

### PART NUMBER | CORES | NOMINAL OD | CU LBS/MFT | WT LBS/MFT
---|---|---|---|---
**SAFETYBUS PUR-EF (HIGH FLEX)**
18 AWG (0.75mm2)
- 8511803* 3 0.299” / 7.6mm 32 45

*Recommended for use in power chains

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