

### Product type designation

Product description

### PROFIBUS Cable 830-2

Plug-in cable comprising PROFIBUS standard cable, preferred length, preassembled with two 9-pole connectors  
SIMATIC NET, CONN. CABLE 830-2 F. PROFIBUS,  
PREASSEMBLED CABLE WITH 2 SUB-D-CONNECTORS 9-POLE,  
SWITCHABLE TERMINATING RESISTORS 10 M



Suitability for use	Cable for connecting PROFIBUS stations (e.g. HMI) to automation devices
Cable designation	02YSY (ST) CY 1x2x0,64/2,55-150 VI KF 40 FR
Cable length	10 m

### Electrical data

Damping ratio per length	
<ul style="list-style-type: none"> <li>• at 9.6 kHz / maximum</li> <li>• at 38.4 kHz / maximum</li> <li>• at 4 MHz / maximum</li> <li>• at 16 MHz / maximum</li> </ul>	<p>0.0025 dB/m</p> <p>0.004 dB/m</p> <p>0.022 dB/m</p> <p>0.042 dB/m</p>
Operating voltage	
<ul style="list-style-type: none"> <li>• RMS value</li> </ul>	100 V

### Mechanical data

Number of electrical cores	2
Design of the shield	Overlapped aluminum-clad foil, sheathed in a braided screen of tin-plated copper wires
Outer diameter	
<ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of the wire insulation</li> <li>• of the inner sheath of the cable</li> </ul>	<p>0.65 mm</p> <p>2.55 mm</p> <p>5.4 mm</p>
Material	
<ul style="list-style-type: none"> <li>• of the wire insulation</li> </ul>	PE

<ul style="list-style-type: none"> <li>• of the inner sheath of the cable</li> </ul>	PVC
Color	
<ul style="list-style-type: none"> <li>• of the insulation of data wires</li> </ul>	red / green
Bending radius	
<ul style="list-style-type: none"> <li>• with single bend / minimum permissible</li> </ul>	37.5 mm
<ul style="list-style-type: none"> <li>• with multiple bends / minimum permissible</li> </ul>	75 mm
Weight per length	80 kg/km

#### Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> <li>• Note</li> </ul>	electrical properties measured at 20 Cel, tests according to DIN 47250 part 4 respectively DIN VDE 0472
Burning behavior	flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSA FT 4)
Chemical resistance	
<ul style="list-style-type: none"> <li>• to mineral oil</li> </ul>	oil resistant according to IEC 60811-2-1 (4 hours / 70°C)
<ul style="list-style-type: none"> <li>• to water</li> </ul>	Conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

#### Standards, specifications, approvals

Certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• RoHS conformity</li> </ul>	Yes
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Bureau Veritas (BV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Germanische Lloyd (GL)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No

#### Further Information / Internet Links

Internet-Link	
<ul style="list-style-type: none"> <li>• to website: Selector SIMATIC NET SELECTION TOOL</li> </ul>	<a href="http://www.siemens.com/snst">http://www.siemens.com/snst</a>
<ul style="list-style-type: none"> <li>• to website: Industrial communication</li> </ul>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
<ul style="list-style-type: none"> <li>• to website: Industry Mall</li> </ul>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
<ul style="list-style-type: none"> <li>• to website: Information and Download Center</li> </ul>	<a href="http://www.siemens.com/automation/net/catalog">http://www.siemens.com/automation/net/catalog</a>
<ul style="list-style-type: none"> <li>• to website: Image database</li> </ul>	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
<ul style="list-style-type: none"> <li>• to website: CAx Download Manager</li> </ul>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<ul style="list-style-type: none"> <li>• to website: Industry Online Support</li> </ul>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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