

### 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, 5 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
Wire length	5 m
<b>Electrical data</b>	
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>	80 V
<b>Mechanical data</b>	
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> <li>• of the inner sheath of the cable</li> </ul>	<p>PE</p> <p>PVC</p>
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> <li>• with multiple bends / minimum permissible</li> </ul>	<p>37.5 mm</p> <p>75 mm</p>
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 °C, 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> <li>• to water</li> </ul>	oil resistant according to IEC 60811-2-1 (4 hours / 70°C) conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

#### Standards, specifications, approvals

UL/ETL listing / 300 V Rating	Yes; c(UL)us, CMG / CL3 / Sun Res
UL/ETL style / 600 V Rating	Yes
Certificate of suitability	
<ul style="list-style-type: none"> <li>• CE marking</li> <li>• RoHS conformity</li> </ul>	<p>Yes</p> <p>Yes</p>
Marine classification association	
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• Bureau Veritas (BV)</li> <li>• Det Norske Veritas (DNV)</li> <li>• Germanische Lloyd (GL)</li> <li>• Lloyds Register of Shipping (LRS)</li> <li>• Nippon Kaiji Kyokai (NK)</li> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	<p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>

#### Further Information / Internet Links

Internet-Link	
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- to website: Selector SIMATIC NET SELECTION TOOL
- to website: Industrial communication
- to website: Industry Mall
- to website: Information and Download Center
- to website: Image database
- to website: CAx Download Manager
- to website: Industry Online Support

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<http://www.siemens.com/snst>

<http://www.siemens.com/simatic-net>

<https://mall.industry.siemens.com>

<http://www.siemens.com/industry/infocenter>

<http://automation.siemens.com/bilddb>

<http://www.siemens.com/cax>

<https://support.industry.siemens.com>

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