

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, 3M



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	3 m

Electrical data

Damping ratio per length	
<ul style="list-style-type: none"> • at 9.6 kHz / maximum • at 38.4 kHz / maximum • at 4 MHz / maximum • at 16 MHz / maximum 	<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"> • RMS value 	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"> • of inner conductor • of the wire insulation • of the inner sheath of the cable 	<p>0.65 mm</p> <p>2.55 mm</p> <p>5.4 mm</p>
Material	
<ul style="list-style-type: none"> • of the wire insulation 	PE

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

Permitted ambient conditions

Ambient temperature	
<ul style="list-style-type: none"> • Note 	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"> • to mineral oil 	oil resistant according to IEC 60811-2-1 (4 hours / 70°C)
<ul style="list-style-type: none"> • to water 	Conditional resistance
Radiological resistance / to UV radiation	resistant
Protection class IP	IP20

Standards, specifications, approvals

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

Further Information / Internet Links

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

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