

product type designation

product description

PROFIBUS Cable 830-2

Plug-in cable comprising PROFIBUS standard cable, preferred length, preassembled with two 9-pole connectors

plug-in cable 830-2 for PROFIBUS, pre-assembled cable with two D-sub connectors 9-pole, Terminating resistors connectable, 5 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1830-2AH50>

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

electrical data

number of electrical connections

2

attenuation factor per length

• at 9.6 kHz / maximum	0.0025 dB/m
• at 38.4 kHz / maximum	0.004 dB/m
• at 4 MHz / maximum	0.022 dB/m
• at 16 MHz / maximum	0.042 dB/m

operating voltage

• RMS value	80 V
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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

• of inner conductor	0.65 mm
• of the wire insulation	2.55 mm
• of the inner sheath of the cable	5.4 mm

material

• of the wire insulation	polyethylene (PE)
• of the inner sheath of the cable	PVC

color

• of the insulation of data wires	red/green
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bending radius

• with single bend / minimum permissible	37.5 mm
• with multiple bends / minimum permissible	75 mm

weight per length

80 kg/km

ambient conditions

fire behavior

flame resistant according to IEC 60332-3-24 (Category C) and UL 1685 (CSA FT 4)

chemical resistance

• to mineral oil	oil resistant according to IEC 60811-2-1 (4 h / 70°C)
• to water	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 • EAC approval • CE marking • RoHS conformity	Yes Yes Yes
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) • Germanische Lloyd (GL) • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) • Polski Rejestr Statkow (PRS)	No No No No No No No
further information / internet links	
internet link • to website: Selection guide for cables and connectors • to web page: selection aid TIA Selection Tool • to web page: SiePortal • to website: Image database • to website: CAx-Download-Manager • to website: Industry Online Support	https://support.industry.siemens.com/cs/ww/en/view/109766358 https://www.siemens.com/tstcloud https://sieportal.siemens.com/ https://www.automation.siemens.com/bilddb https://www.siemens.com/cax https://support.industry.siemens.com
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Approvals / Certificates	
General Product Approval	
 EG-Konf.	Declaration of Con- formity
	
 CCC	Manufacturer Declara- tion
	China RoHS
General Product Ap- proval	other
 RCM	Miscellaneous

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