SIEMENS

Data sheet   **6XV1830-2AH30**

product type designation	**PROFIBUS Cable 830-2**
product description	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, 3 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	3 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
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
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	
ambient temperature	
● note	Electrical properties measured at 20 °C, tests according to DIN 47250 part 4 respectively DIN VDE 0472
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	Yes
● CE marking	Yes
● RoHS conformity	Yes
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● French marine classification society (BV)	No
● Det Norske Veritas (DNV)	No
● Germanische Lloyd (GL)	No
● Lloyds Register of Shipping (LRS)	No
● Nippon Kaiji Kyokai (NK)	No
● Polski Rejestr Statkow (PRS)	No
reference code	
● according to IEC 81346-2	WG
● according to IEC 81346-2:2019	WGB

further information / internet links

internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

security information

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Approvals / Certificates

General Product Approval					For use in hazard-ous locations
CE EG-Konf.	Declaration of Conformity	UKCA	CCC	RCM	Ex ATEX

For use in hazardous locations		Marine / Shipping	Environment
FM	IECEx IECEx	PRS	Confirmation

last modified:	8/8/2024

1/17/2025