

### 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, 3 m.



Technical Product Detail Page

<https://i.siemens.com/1P6XV1830-2AH30>

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

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   |
| <b>standards, specifications, approvals</b>             |  |
| 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   |
| <b>further information / internet links</b>             |  |
| internet link   |  |
| • to website: Selection guide for cables and connectors | <a href="https://support.industry.siemens.com/cs/ww/en/view/109766358">https://support.industry.siemens.com/cs/ww/en/view/109766358</a>  |
| • to web page: selection aid TIA Selection Tool         | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>  |
| • to web page: SiePortal                                | <a href="https://sieportal.siemens.com/">https://sieportal.siemens.com/</a>  |
| • to website: Image database                            | <a href="https://www.automation.siemens.com/bilddb">https://www.automation.siemens.com/bilddb</a>  |
| • to website: CAx-Download-Manager                      | <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>  |
| • to website: Industry Online Support                   | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>  |
| <b>security information</b>                             |  |
| 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 <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . 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 <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7) |

**Approvals / Certificates**

**General Product Approval**



[Declaration of Conformity](#)



[Manufacturer Declaration](#)

[China RoHS](#)

|                                 |                                       |                             |
|---------------------------------|---------------------------------------|-----------------------------|
| <b>General Product Approval</b> | <b>For use in hazardous locations</b> | <b>Maritime application</b> |
|---------------------------------|---------------------------------------|-----------------------------|



[FM](#)



last modified: 10/28/2025