

bus cable for PROFINET pre-assembled on two sides 4-core, shielded pre-assembled with 2 x M12 D-encoded, angled length 3.0 m



General technical data

| | | |
|--------------------------------------|------|--------------------------------------|
| product description | | M12 plug, angled on M12 plug, angled |
| wire length | m | 3 |
| cable designation | | BUS: 2x2xAWG22/7 9YH(ST)C11Y |
| General technical data | | |
| ampacity per pin maximum | A | 4 |
| operating voltage | | |
| • at DC maximum | V | 60 |
| • at AC maximum | V | 60 |
| surge voltage resistance rated value | kV | 1.5 |
| impedance | | |
| • at 100 MHz rated value | Ω | 100 |
| attenuation factor per length | | |
| • at 4 MHz maximum | dB/m | 0.041 |
| • at 10 MHz maximum | dB/m | 0.065 |
| • at 16 MHz maximum | dB/m | 0.083 |
| • at 100 MHz maximum | dB/m | 0.22 |

Mechanical data

| | | |
|--|----|---------------------------------------|
| connector type | | Plug / Plug |
| connector coding of the M12 circular connector | | D |
| number of electrical cores | | 4 |
| type of cable outlet | | angled |
| number of poles | | 4 |
| color | | |
| • of cable sheath | | green |
| • of the insulation of data wires | | yellow, white, orange, blue |
| material | | |
| • of cable sheath | | Polyurethane |
| • of the wire insulation | | Polonium |
| • of the enclosure | | Thermoplastic polyurethane |
| design of the shield | | Shielding braid of tinned copper wire |
| type of strain relief | | molded |
| bending radius | | |
| • with single bend minimum permissible | mm | 33.5 |
| • with multiple bends minimum permissible | mm | 100.5 |
| number of bending cycles | | 2 000 000 |
| mechanical service life (mating cycles) | | 100 |
| outer diameter | | |
| • of inner conductor | mm | 0.75 |

| | | |
|---|-----------------|-------------------------|
| • of the cable | mm | 6.7 |
| symmetrical tolerance of the outer diameter of the cable | mm | 0.2 |
| conductor cross section rated value | mm ² | 0.34 |
| type of plug interlock | | M12 x 1 thread |
| cable end components | | populated on both sides |

| Ambient conditions | | |
|----------------------------|--|--|
| chemical resistance | | conditional, must be checked relative to the application |
| • to mineral oil | | conditional, must be checked relative to the application |
| • to water | | conditional, must be checked relative to the application |
| • to grease | | conditional, must be checked relative to the application |
| degree of pollution | | 3 |

| Certificates/ approvals | | |
|-----------------------------------|--|-----|
| certificate of suitability | | |
| • CSA approval | | No |
| • RoHS conformity | | Yes |
| • UL approval | | No |
| • CCC | | No |
| • IEC approval | | Yes |
| • cUL approval | | No |
| • C-Tick | | No |

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RK1902-2NB30>

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RK1902-2NB30>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RK1902-2NB30>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1902-2NB30&lang=en

last modified:

4/2/2025 