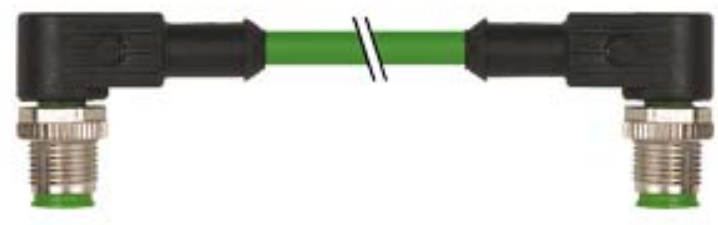


Bus cable for PROFINET assembled on both ends 4-  
core, shielded assembled with 2 x M12 D-coded, angled  
Length 3.0 m



| General technical data: |   |                                       |
|-------------------------|---|---------------------------------------|
| (product description)   |   | M12 plug, angled on M12 socket angled |
| (cable length)          | m | 3                                     |
| (wire 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   |
| Damping ratio per length             |       |       |
| • at 4 MHz maximum                   | dB/km | 40.5  |
| • at 10 MHz maximum                  | dB/m  | 0.065 |
| • at 16 MHz maximum                  | dB/km | 82.5  |
| • 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 <ul style="list-style-type: none"> <li>• of cable sheath</li> <li>• of the insulation of data wires</li> </ul>                                       |                 | green<br>yellow, white, orange, blue                   |
| Material <ul style="list-style-type: none"> <li>• of cable sheath</li> <li>• of the wire insulation</li> <li>• of the enclosure</li> </ul>                 |                 | Polyurethane<br>Polonium<br>Thermoplastic polyurethane |
| Design of the shield                                                                                                                                       |                 | Shielding braid of tinned copper wire                  |
| Type of strain relief                                                                                                                                      |                 | molded                                                 |
| Bending radius <ul style="list-style-type: none"> <li>• with single bend minimum permissible</li> <li>• with multiple bends minimum permissible</li> </ul> | mm<br>mm        | 33.5<br>100.5                                          |
| Number of bending cycles                                                                                                                                   |                 | 2 000 000                                              |
| Mechanical service life (mating cycles)                                                                                                                    |                 | 100                                                    |
| Outer diameter <ul style="list-style-type: none"> <li>• of inner conductor</li> <li>• of the cable</li> </ul>                                              | mm<br>mm        | 0.75<br>6.7                                            |
| Symmetrical tolerance of the outer diameter of the cable                                                                                                   | mm              | 0.2                                                    |
| Conductor cross section Rated value                                                                                                                        | mm <sup>2</sup> | 0.34                                                   |
| Type of plug interlock                                                                                                                                     |                 | M12 x 1 thread                                         |
| Cable end components                                                                                                                                       |                 | populated on both sides                                |

#### Ambient conditions:

|                                                                                                                                 |  |                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical resistance <ul style="list-style-type: none"> <li>• to mineral oil</li> <li>• to water</li> <li>• to grease</li> </ul> |  | conditional, must be checked relative to the application<br>conditional, must be checked relative to the application<br>conditional, must be checked relative to the application |
| Degree of pollution                                                                                                             |  | 3                                                                                                                                                                                |

#### Certificates/ approvals:

|                                                                                                                                                              |  |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|
| Certificate of suitability <ul style="list-style-type: none"> <li>• CSA-approval</li> <li>• RoHS conformity</li> <li>• UL approval</li> <li>• CCC</li> </ul> |  | Yes<br>Yes<br>No<br>No |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------|

- IEC certificate
- cUL approval
- C-Tick

|  |    |
|--|----|
|  | No |
|  | No |
|  | No |

#### Further information

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

<http://www.siemens.com/industrial-controls/catalogs>

##### Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

##### Cax online generator

<http://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, ...)

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RK1902-2NB30&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RK1902-2NB30&lang=en)

last modified:

05/07/2019