

## Bus system cable - NBC-MR/15,0-971/FR SCO VR KM - 1412104


Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Bus system cable, VARAN, 6-position, PVC, black, shielded, Plug angled M12 SPEEDCON, A-coded, on Socket angled M12 SPEEDCON, A-coded, cable length: 15 m, Customer version



### Key Commercial Data

|                        |   |
|------------------------|---|
| Packing unit           | 1 pc  |
| Minimum order quantity | 25 pc   |
| GTIN                   | <br>4 046356 955386 |
| GTIN                   | 4046356955386   |

### Technical data

#### Dimensions

|                 |      |
|-----------------|------|
| Length of cable | 15 m |
|-----------------|------|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
|---------------------------------|----------------------------------|

#### General data

|                          |         |
|--------------------------|---------|
| Rated current at 40°C    | 2 A     |
| Rated voltage            | 30 V AC |
|                          | 30 V DC |
| Number of positions      | 6       |
| Signal type/category     | VARAN   |
| Overvoltage category     | II      |
| Degree of pollution      | 3       |
| Contact material         | CuZn    |
| Contact carrier material | TPU GF  |
| Contact surface material | Ni/Au   |

# Bus system cable - NBC-MR/15,0-971/FR SCO VR KM - 1412104

## Technical data

### Standards and Regulations

|  |    |
|--|----|
| Flammability rating according to UL 94 | HB |
|--|----|

### Cable

|   |  |
|---|--|
| Cable type                                      | VARAN  |
| Cable type (abbreviation)                       | 971  |
| UL AWM style                                    | 2461 (80°C/300 V)                                  |
| Signal type/category                            | VARAN CAT5 (IEC 11801), 100 Mbps                   |
| Cable structure                                 | 1X2X24/32+2X2X24/19; SF/UTP                        |
| Conductor cross section                         | 2x 2x 0.25 mm <sup>2</sup> (Signal line)           |
|   | 2x 0.25 mm <sup>2</sup> (Power supply)             |
| AWG signal line                                 | 24   |
| AWG power supply                                | 24   |
| Conductor structure signal line                 | 19x 0.13 mm  |
| Conductor structure, voltage supply             | 32x 0.10 mm  |
| Core diameter including insulation              | 1.25 mm (Signal line)                              |
|   | 1.4 mm (Power supply)                              |
| Wire colors                                     | Blue-yellow, green-orange, red-blue                |
| Twisted pairs                                   | 2 cores to the pair                                |
| Overall twist                                   | 3 pairs with filler elements to the core           |
| Shielding                                       | Aluminum-coated foil, tinned copper braided shield |
| Optical shield covering                         | 85 %   |
| External sheath, color                          | black  |
| Outer sheath thickness                          | 0.9 mm   |
| External cable diameter D                       | 7 mm ±0.2 mm                                       |
| Minimum bending radius, fixed installation      | 4 x D  |
| Minimum bending radius, flexible installation   | 8 x D  |
| Number of bending cycles                        | 200000   |
| Minimum bending radius, drag chain applications | 5 x D  |
| Outer sheath, material                          | PVC  |
| Material conductor insulation                   | PE   |
| Conductor material                              | Bare Cu litz wires                                 |
| Insulation resistance                           | ≥ 500 MΩ*km (at 20 °C)                             |
| Conductor resistance                            | 78 Ω/km (at 20 °C)                                 |
| Working capacitance                             | approx. 57 nF (at 1 kHz)                           |
| Signal runtime                                  | 5.3 ns/m   |
| Nominal voltage, cable                          | ≤ 80 V   |
| Test voltage Core/Core                          | 1000 V   |
| Test voltage Core/Shield                        | 1000 V   |
| Flame resistance                                | according to IEC 60332-1-2                         |
| Resistance to oil                               | According to DIN EN 60811-2-1, 168 h at 100°C      |
| Ambient temperature (operation)                 | -40 °C ... 80 °C                                   |

# Bus system cable - NBC-MR/15,0-971/FR SCO VR KM - 1412104

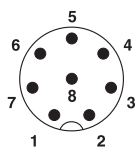
## Technical data

### Cable

|   |                  |
|---|------------------|
| Ambient temperature (installation)      | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |

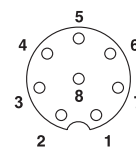
## Drawings

Schematic diagram



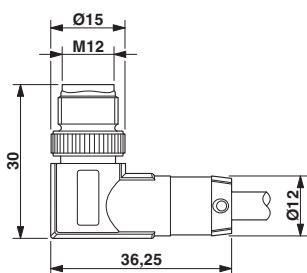
Pin assignment M12 plug, 8-pos., view plug side

Schematic diagram



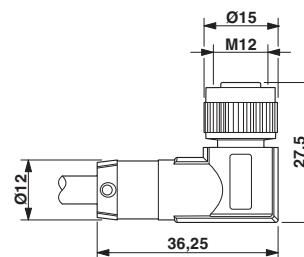
Pin assignment M12 socket, 8-pos., A-coded, view female side

Dimensional drawing



M12 x 1 male plug, angled, shielded

Dimensional drawing



M12 x 1 socket, angled, shielded

Phoenix Contact 2018 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
 Flachmarktstr. 8  
 32825 Blomberg  
 Germany  
 Tel. +49 5235 300  
 Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Ethernet Cables / Networking Cables](#) category:*

*Click to view products by [Phoenix Contact](#) manufacturer:*

Other Similar products are found below :

[73-6670-7](#) [73-6680-15](#) [73-7797-25](#) [MCJB2-10P6Q7-120](#) [84909-0204](#) [1200700174](#) [1200860368](#) [E16A06002M030](#) [E200102-009-S1](#)  
[AX105346-EW](#) [MT14-187L](#) [17-103530](#) [ERWPAB3002M005](#) [190-038045-01](#) [NK5EPC18RDY](#) [NK5EPC18VLY](#) [NK5EPC18YLY](#)  
[NK5EPC1GRY](#) [NK5EPC4Y](#) [NK5EPC6YLY](#) [NK5EPC8BLY](#) [NK5EPC9YLY](#) [1969343-6](#) [C501100010](#) [C501106002](#) [C501106007](#)  
[C501106015](#) [C501106025](#) [C601102010](#) [C601104010](#) [C601106007](#) [C601106015](#) [2142758-2](#) [2168427-2](#) [CAT1106007](#) [21949-1](#) [2J1866A](#)  
[RJF SFTP 5E 0500](#) [AX100351](#) [MN14CEC/ST](#) [C501100015](#) [C501106004](#) [C501106010](#) [C5F1108007](#) [C601104004](#) [C601106004](#)  
[CA21106004](#) [CA21106010](#) [CA21106015](#) [CA21109007](#)