

# NBC-M12MSD/ 5,0-93C - Network cable



1038737

<https://www.phoenixcontact.com/in/products/1038737>

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, PUR/FRNC halogen-free, green RAL 6018, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on free cable end, cable length: 5 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1038737                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF1                            |
| Product key                          | AF1CJN                         |
| GTIN                                 | 4055626592374                  |
| Weight per piece (including packing) | 332.1 g                        |
| Weight per piece (excluding packing) | 332.1 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | PL                             |

## Technical data

### Notes

|         |                                                                                                                                                                                                |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General | This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 10.1 Cord Sets for Balanced Cabling |
| General | Further products with variable cable type and variable cable length can be found in the accessories section                                                                                    |

### Product properties

|                     |                         |
|---------------------|-------------------------|
| Product type        | Data cable preassembled |
| Application         | Standard                |
| Sensor type         | PROFINET                |
| Number of positions | 4                       |
| Shielded            | yes                     |

#### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Interfaces

|                      |                                      |
|----------------------|--------------------------------------|
| Bus system           | PROFINET                             |
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps  |
|                      | EtherCAT® CAT5 (IEC 11801), 100 Mbps |

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | No |

### Electrical properties

|                                         |                       |
|-----------------------------------------|-----------------------|
| Nominal voltage $U_N$                   | 48 V AC               |
|                                         | 60 V DC               |
| Nominal current $I_N$                   | 4 A                   |
| Transmission medium                     | Copper                |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

### Material specifications

|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

### Connector

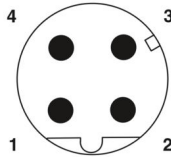
#### Connection 1

# NBC-M12MSD/ 5,0-93C - Network cable



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|                                        |                                                                                                                                                         |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                    |  <p>Pin assignment M12 male connector, 4-pos., D-coded, male side</p> |
| Type                                   | M12 Plug, straight, 4-position, shielded (Advanced Shielding Technology), Keying: D                                                                     |
| Number of positions                    | 4                                                                                                                                                       |
| Shielded                               | yes                                                                                                                                                     |
| Shielding                              | Advanced Shielding Technology                                                                                                                           |
| Signal type/category                   | EtherCAT® CAT5 (IEC 11801), 100 Mbps<br>PROFINET CAT5 (IEC 11801)                                                                                       |
| Insertion/withdrawal cycles            | ≥ 100                                                                                                                                                   |
| Insulation resistance                  | ≥ 100 MΩ                                                                                                                                                |
| Overvoltage category                   | II                                                                                                                                                      |
| Degree of pollution                    | 3                                                                                                                                                       |
| Tightening torque                      | 0.4 Nm                                                                                                                                                  |
| Material Contact                       | CuSn                                                                                                                                                    |
| Material Contact surface               | Ni/Au                                                                                                                                                   |
| Material Contact carrier               | PA 6.6                                                                                                                                                  |
| Material Screw connection              | Die-cast zinc, nickel-plated                                                                                                                            |
| Material Grip body                     | TPU, hardly inflammable, self-extinguishing                                                                                                             |
| Material Seal                          | FKM                                                                                                                                                     |
| Flammability rating according to UL 94 | V0                                                                                                                                                      |
| Degree of protection                   | IP65<br>IP67                                                                                                                                            |
| Ambient temperature (operation)        | -25 °C ... 85 °C                                                                                                                                        |
| Standard designation                   | M12 connector                                                                                                                                           |
| Standards/regulations                  | IEC 61076-2-101                                                                                                                                         |

## Connection 2

|      |                |
|------|----------------|
| Type | free cable end |
|------|----------------|

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

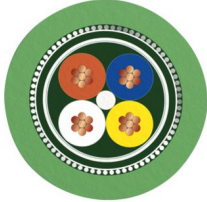
PROFINET drag chain CAT5 [93C]

# NBC-M12MSD/ 5,0-93C - Network cable



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|                                               |                                                                                                                                       |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                           |                                                     |
| Cable weight                                  | 61 kg/km                                                                                                                              |
| Shielded                                      | yes                                                                                                                                   |
| Cable type                                    | PROFINET drag chain CAT5 [93C]                                                                                                        |
| Conductor structure                           | 1x4xAWG22/7, SF/TQ                                                                                                                    |
| Signal runtime                                | 5.3 ns/m                                                                                                                              |
| Signal speed                                  | 0.66 c                                                                                                                                |
| Conductor structure signal line               | 7x 0.25 mm                                                                                                                            |
| AWG signal line                               | 22                                                                                                                                    |
| Conductor cross section                       | 4x 0.34 mm <sup>2</sup>                                                                                                               |
| Wire diameter incl. insulation                | 1.5 mm                                                                                                                                |
| External cable diameter                       | 6.50 mm ±0.2 mm                                                                                                                       |
| Outer sheath, material                        | PUR                                                                                                                                   |
| External sheath, color                        | green RAL 6018                                                                                                                        |
| Conductor material                            | Tin-plated Cu litz wires                                                                                                              |
| Material wire insulation                      | PE                                                                                                                                    |
| Single wire, color                            | white, yellow, blue, orange                                                                                                           |
| Thickness, outer sheath                       | approx. 0.90 mm                                                                                                                       |
| Overall twist                                 | Star quad                                                                                                                             |
| Optical shield covering                       | 85 %                                                                                                                                  |
| Insulation resistance                         | ≥ 500 MΩ*km                                                                                                                           |
| Coupling resistance                           | ≤ 20.00 mΩ/m (at 10 MHz)                                                                                                              |
| Loop resistance                               | ≤ 120.00 Ω/km                                                                                                                         |
| Wave impedance                                | 100 Ω ±15 Ω (at 1 ... 100 MHz)                                                                                                        |
| Nominal voltage, cable                        | 600 V (UL rating)                                                                                                                     |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                                                                                                                |
| Test voltage Core/Shield                      | 2000.00 V (50 Hz, 1 min.)                                                                                                             |
| Minimum bending radius, fixed installation    | 5 x D                                                                                                                                 |
| Minimum bending radius, flexible installation | 7.5 x D                                                                                                                               |
| Smallest bending radius, fixed installation   | 33 mm                                                                                                                                 |
| Smallest bending radius, movable installation | 49 mm                                                                                                                                 |
| Dynamic load capacity (bending)               | Max. bending cycles: 3000000, Bending radius: 100 mm, Traversing path: 10 m, Traversing rate: 4 m/s, Acceleration: 4 m/s <sup>2</sup> |
| Tensile strength                              | ≤ 150 N                                                                                                                               |
| Dynamic load capacity (torsion)               | Torsion: ±30 °/m<br>80 dB (with 1 MHz)                                                                                                |

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|                                       |                                                       |
|---------------------------------------|-------------------------------------------------------|
| Near end crosstalk attenuation (NEXT) | 76 dB (at 4 MHz)                                      |
|                                       | 70 dB (at 10 MHz)                                     |
|                                       | 65 dB (at 16 MHz)                                     |
|                                       | 63 dB (at 20 MHz)                                     |
|                                       | 60 dB (at 31.25 MHz)                                  |
|                                       | 55 dB (at 62.5 MHz)                                   |
|                                       | 50 dB (at 100 MHz)                                    |
| Shield attenuation                    | 2.1 dB (with 1 MHz)                                   |
|                                       | 4 dB (at 4 MHz)                                       |
|                                       | 6.3 dB (at 10 MHz)                                    |
|                                       | 8 dB (at 16 MHz)                                      |
|                                       | 9 dB (at 20 MHz)                                      |
|                                       | 11.4 dB (at 31.25 MHz)                                |
|                                       | 16.5 dB (at 62.5 MHz)                                 |
|                                       | 21.3 dB (at 100 MHz)                                  |
| Halogen-free                          | yes                                                   |
| Flame resistance                      | according to IEC 60332-1-2                            |
|                                       | in accordance with UN ECE-R 118.03                    |
| Resistance to oil                     | in accordance with DIN EN 60811-2-1                   |
| Other resistance                      | UV resistant                                          |
| Special properties                    | Electrical properties in accordance with EN 50288-2-2 |
| Ambient temperature (operation)       | -40 °C ... 70 °C (cable, fixed installation)          |
|                                       | -40 °C ... 70 °C (Cable, flexible installation)       |
| Ambient temperature (installation)    | -20 °C ... 60 °C                                      |

## Environmental and real-life conditions

### Ambient conditions

|                      |                      |
|----------------------|----------------------|
| Degree of protection | IP65 (M12 connector) |
|                      | IP67 (M12 connector) |

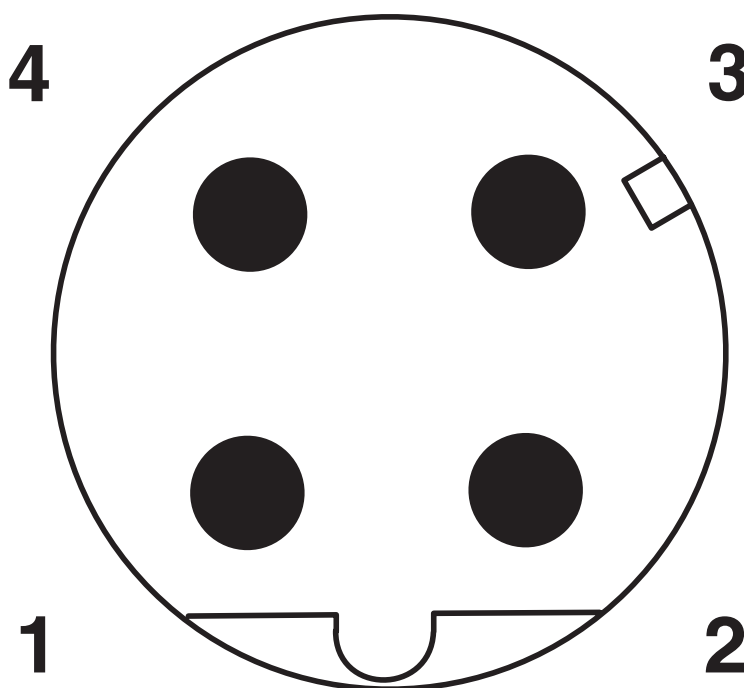
## Standards and regulations

### M12

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M12 connector   |
| Standards/specifications | IEC 61076-2-101 |

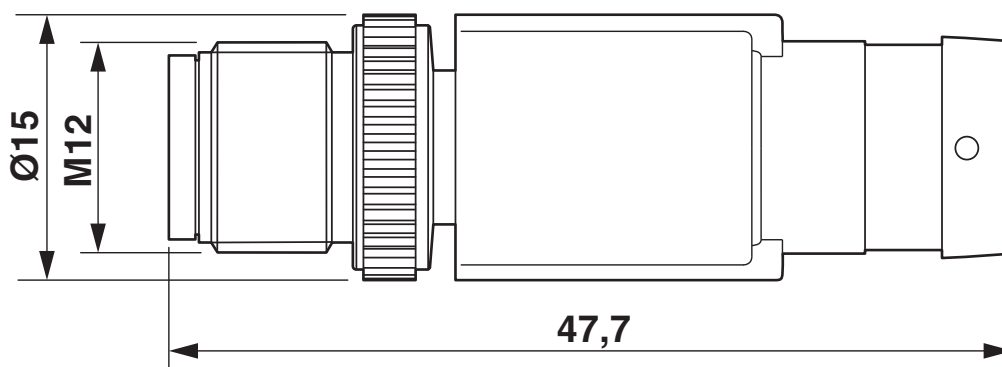
## Drawings

Schematic diagram



Pin assignment M12 male connector, 4-pos., D-coded, male side

Dimensional drawing



Plug, M12 x 1, straight, shielded

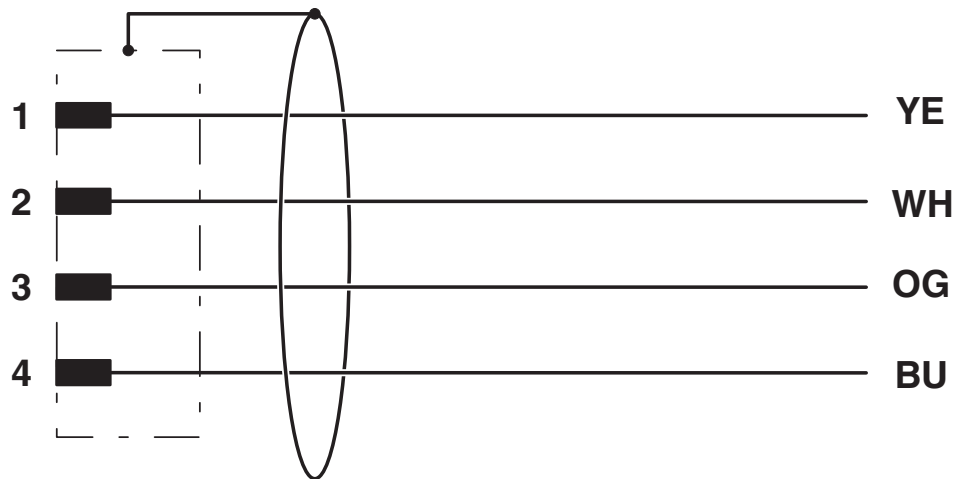
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Circuit diagram



Contact assignment of the M12 plug

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/in/products/1038737>

|  <b>cULus Listed</b><br>Approval ID: E335024 | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                               | 250 V                 | 4 A                   | -                 | -                           |

# NBC-M12MSD/ 5,0-93C - Network cable



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060307 |
| ECLASS-12.0 | 27060307 |
| ECLASS-13.0 | 27060307 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

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## Environmental product compliance

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| EU RoHS                                 |                                          |
| Fulfills EU RoHS substance requirements | Yes, No exemptions                       |
| China RoHS                              |                                          |
| Environment friendly use period (EFUP)  | EFUP-E                                   |
|                                         | No hazardous substances above the limits |
| EU REACH SVHC                           |                                          |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%               |

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## Accessories

### NBC-M12MSD-PN/.../... - Network cable

1408640

<https://www.phoenixcontact.com/in/products/1408640>



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, shielded (Advanced Shielding Technology), Plug straight M12, coding: D / IP67, on free cable end, cable length: Free input (0.2 m ... 85.0 m)

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### NBC-M12MRD-PN/.../... - Network cable

1408633

<https://www.phoenixcontact.com/in/products/1408633>



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, shielded (Advanced Shielding Technology), Plug angled M12, coding: D / IP67, on free cable end, cable length: Free input (0.2 m ... 85.0 m)

## NBC-M12MSD/ 5,0-93C - Network cable

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### NBC-M12FSD-PN/.../... - Network cable

1408623

<https://www.phoenixcontact.com/in/products/1408623>



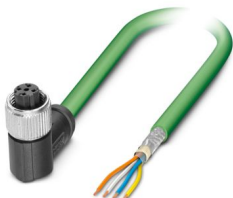
Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12, coding: D / IP67, cable length: Free input (0.2 m ... 85.0 m)

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### NBC-M12FRD-PN/.../... - Network cable

1408615

<https://www.phoenixcontact.com/in/products/1408615>



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, shielded (Advanced Shielding Technology), free cable end, on Socket angled M12 / IP67, cable length: Free input (0.2 m ... 85.0 m)

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## PROT-M12 FS-PA-CHAIN - Sealing cap

1430873

<https://www.phoenixcontact.com/in/products/1430873>

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



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## SAC-M12-EXCLIP-M - Locking clip

1558988

<https://www.phoenixcontact.com/in/products/1558988>

Locking clip for the pin side of sensor/actuator cables with M12 connector and M12 connectors for assembly, for knurl diameter: 15 mm or for Allen key with a wrench size of 14 mm, prevents the disconnection of plug-in connections without tools



## NBC-M12MSD/ 5,0-93C - Network cable

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## WP-CTA POM 13,0 BK - Protective hose adapter

1422884

<https://www.phoenixcontact.com/in/products/1422884>



Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 x 13), corrugated in parallel

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## WP-PA HF 13,0 BK - Protective hose

3240681

<https://www.phoenixcontact.com/in/products/3240681>



Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: V0, inside diameter: 10 mm, Total length: 50 m

## NBC-M12MSD/ 5,0-93C - Network cable

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## WP-PA HF-HB 13,0 BK - Protective hose

3240839

<https://www.phoenixcontact.com/in/products/3240839>



Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: HB, inside diameter: 10 mm, Total length: 50 m

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## SACC-M12MSD-4QO SH PN - Data connector

1411068

<https://www.phoenixcontact.com/in/products/1411068>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, halogen-free, shielded, Plug straight M12, coding: D, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

## NBC-M12MSD/ 5,0-93C - Network cable

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### SACC-M12MRD-4Q SH PN - Data connector

1554539

<https://www.phoenixcontact.com/in/products/1554539>

Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, coding: D, Insulation displacement connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm



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### SACC-M12FSD-4QO SH PN - Data connector

1411071

<https://www.phoenixcontact.com/in/products/1411071>

Data connector, PROFINET CAT5 (100 Mbps), 4-position, halogen-free, shielded, Socket straight M12, coding: D, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm



## NBC-M12MSD/ 5,0-93C - Network cable

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### SACC-M12FRD-4Q SH PN - Data connector

1554542

<https://www.phoenixcontact.com/in/products/1554542>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket angled M12, coding: D, Insulation displacement connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

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### SACC-CC-4QO SH PN - Conductor connector

1414416

<https://www.phoenixcontact.com/in/products/1414416>



Cable connector, PROFINET CAT5 (100 Mbps), 4-pos., halogen-free, shielded, insulation displacement connection, housing material: zinc die-cast, nickel-plated, outer cable diameter of 5 mm ... 9.7 mm

# NBC-M12MSD/ 5,0-93C - Network cable

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## SACC-M12MSD-4PL SH PN - Connector

1424682

<https://www.phoenixcontact.com/in/products/1424682>



Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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## SACC-M12MRD-4PL SH PN - Connector

1424684

<https://www.phoenixcontact.com/in/products/1424684>



Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

# NBC-M12MSD/ 5,0-93C - Network cable

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## SACC-M12FSD-4PL SH PN - Connector

1424683

<https://www.phoenixcontact.com/in/products/1424683>



Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket straight M12, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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## SACC-M12FRD-4PL SH PN - Connector

1424685

<https://www.phoenixcontact.com/in/products/1424685>



Connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket angled M12, coding: D, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

# NBC-M12MSD/ 5,0-93C - Network cable



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## SACC-M12MSD-4CT-CM SH PN - Data connector

1422846

<https://www.phoenixcontact.com/in/products/1422846>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug straight M12, coding: D, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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## SACC-M12MRD-4CT-CM SH PN - Data connector

1422847

<https://www.phoenixcontact.com/in/products/1422847>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12, coding: D, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

# NBC-M12MSD/ 5,0-93C - Network cable



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## SACC-M12FSD-4CT-CM SH PN - Data connector

1422848

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Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket straight M12, coding: D, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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## SACC-M12FRD-4CT-CM SH PN - Data connector

1422849

<https://www.phoenixcontact.com/in/products/1422849>



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Socket angled M12, coding: D, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

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## VS-PN-RJ45-5-Q/IP20 - RJ45 connector

1658435

<https://www.phoenixcontact.com/in/products/1658435>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5, material: Plastic, connection method: Insulation displacement connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET

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## CUC-IND-C1ZNI-S/R4IP8 - RJ45 connector

1421126

<https://www.phoenixcontact.com/in/products/1421126>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: straight, color: green, Ethernet/PROFINET

# NBC-M12MSD/ 5,0-93C - Network cable



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## CUC-IND-C1ZNI-T/R4IP8 - RJ45 connector

1421128

<https://www.phoenixcontact.com/in/products/1421128>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet/PROFINET

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## CUC-IND-C1ZNI-B/R4IP8 - RJ45 connector

1421127

<https://www.phoenixcontact.com/in/products/1421127>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: Insulation displacement connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet/PROFINET

# NBC-M12MSD/ 5,0-93C - Network cable



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## CUC-V14-C1ZNI-S/R4P8 - RJ45 connector

1422664

<https://www.phoenixcontact.com/in/products/1422664>



RJ45 connector, degree of protection: IP65/IP67, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: straight, Ethernet

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## CUC-V14-C1ZNI-T/R4P8 - RJ45 connector

1422667

<https://www.phoenixcontact.com/in/products/1422667>



RJ45 connector, degree of protection: IP65/IP67, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet

## NBC-M12MSD/ 5,0-93C - Network cable

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## CUC-V14-C1ZNI-B/R4P8 - RJ45 connector

1422665

<https://www.phoenixcontact.com/in/products/1422665>



RJ45 connector, degree of protection: IP65/IP67, number of positions: 8, 1 Gbps, CAT5, material: Metal, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet

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## TSD 04 SAC - Torque screwdriver

1208429

<https://www.phoenixcontact.com/in/products/1208429>



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

## NBC-M12MSD/ 5,0-93C - Network cable

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## TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/in/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/in/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

## NBC-M12MSD/ 5,0-93C - Network cable

1038737

<https://www.phoenixcontact.com/in/products/1038737>



## SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/in/products/1208432>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, with a knurl diameter of 15 mm, for 4 mm hexagonal drive

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## CUTFOX 12 - Cable-cutting tool

1212128

<https://www.phoenixcontact.com/in/products/1212128>



**Cable cutter**, for copper and aluminum up to 12 mm diameter (up to 35 mm<sup>2</sup>)

## NBC-M12MSD/ 5,0-93C - Network cable

1038737

<https://www.phoenixcontact.com/in/products/1038737>



## CUTFOX-S VDE - Diagonal cutter

1212207

<https://www.phoenixcontact.com/in/products/1212207>



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

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## VS-CABLE-STRIP-VARIO - Stripping tool

1657407

<https://www.phoenixcontact.com/in/products/1657407>

Stripping tool, for the multi-level stripping of shielded cables



# NBC-M12MSD/ 5,0-93C - Network cable



1038737

<https://www.phoenixcontact.com/in/products/1038737>

## MICROFOX-SP-1 - Diagonal cutter

1212487

<https://www.phoenixcontact.com/in/products/1212487>



Electronic diagonal cutter, tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version

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## WIREFOX 4 - Stripping tool

1212156

<https://www.phoenixcontact.com/in/products/1212156>



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

# NBC-M12MSD/ 5,0-93C - Network cable



1038737

<https://www.phoenixcontact.com/in/products/1038737>

## WIREFOX-E 4 - Stripping tool

1212704

<https://www.phoenixcontact.com/in/products/1212704>



Stripping tool, for cables and conductors (especially for rubber and silicone insulations) from 0.1 - 4 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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## WIREFOX 10 - Stripping tool

1212150

<https://www.phoenixcontact.com/in/products/1212150>



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

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