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# Network cable - NBC- 2,0-93B/M12FSD

1407529

https://www.phoenixcontact.com/gb/products/1407529

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Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, shielded (Advanced Shielding Technology), free cable end, on Socket straight M12 / IP67, coding: D, cable length: 2 m

## Commercial Data

| | |
|---|---|
| Item number | 1407529 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales Key | BF1CJN |
| Product Key | BF1CJN |
| Catalog Page | Page 198 (C-6-2019) |
| GTIN | 4046356778343 |
| Weight per Piece (including packing) | 152.66 g |
| Weight per Piece (excluding packing) | 152.66 g |
| Customs tariff number | 85444210 |
| Country of origin | PL |

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# Network cable - NBC- 2,0-93B/M12FSD

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## 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 |
| Number of positions | 4 |
| Application | Standard |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | D - data |

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 |
| | PROFINET CAT5 (IEC 11801), 100 Mbps |
| | EtherCAT® CAT5 (IEC 11801), 100 Mbps |

### LED 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 |

### Material specifications

| | |
|---|---|
| Color Handle area | black |
| Flammability rating according to UL 94 | V0 |

### Connector

Connection 1

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

Connection 2

| | |
|---|---|
| Type | Socket straight M12 / IP67 |
| Number of positions | 4 |
| Coding type | D (Data) |
| Handle color | black |
| Material | CuSn (Contact) |
| | Ni/Au (Contact surface) |
| | PA (Contact carriers) |
| | TPU, hardly inflammable, self-extinguishing (Grip) |
| | Zinc die-cast, nickel-plated (Screw connection) |
| | FKM (Seal) |
| Insertion/withdrawal cycles | ≥ 100 |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Tightening torque | 0.4 Nm |
| Ambient temperature (operation) | -25 °C ... 90 °C |

## Cable / line

| | |
|---|---|
| Cable length | 2 m |
| Cable weight | 67 kg/km |
| UL AWM Style | 21694 |
| Number of positions | 4 |
| Shielded | yes |
| Cable type | PROFINET PVC stranded CAT5 [93B] |
| 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 mm² |
| Wire diameter incl. insulation | 1.55 mm |
| External cable diameter | 6.5 mm ±0.2 mm |
| Outer sheath, material | PVC |
| 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. 0.9 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 |

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# Network cable - NBC- 2,0-93B/M12FSD

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| | |
|---|---|
| Wave impedance | 100 Ω ±15 Ω (at 100 MHz) |
| Nominal voltage, cable | 600 V |
| Test voltage Core/Core | 2000 V (50 Hz, 1 min.) |
| Test voltage Core/Shield | 2000 V (50 Hz, 1 min.) |
| Minimum bending radius, fixed installation | 3 x D |
| Minimum bending radius, flexible installation | 7 x D |
| Near end crosstalk attenuation (NEXT) | 80 dB (with 1 MHz) |
| | 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) |
| Flame resistance | according to UL 1685 (CSA FT 4) |
| Resistance to oil | Resistant to oil to a limited extent |
| Other resistance | UV resistant According to UL 1581, Section 1200 |
| Ambient temperature (operation) | -40 °C ... 70 °C (cable, fixed installation) |
| | -40 °C ... 70 °C (Cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 60 °C |
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps |
| | EtherCAT® CAT5 (IEC 11801), 100 Mbps |

## Ambient conditions

| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |

## Standards and regulations

M12

| | |
|---|---|
| Standards/specifications | IEC 61076-2-101 |

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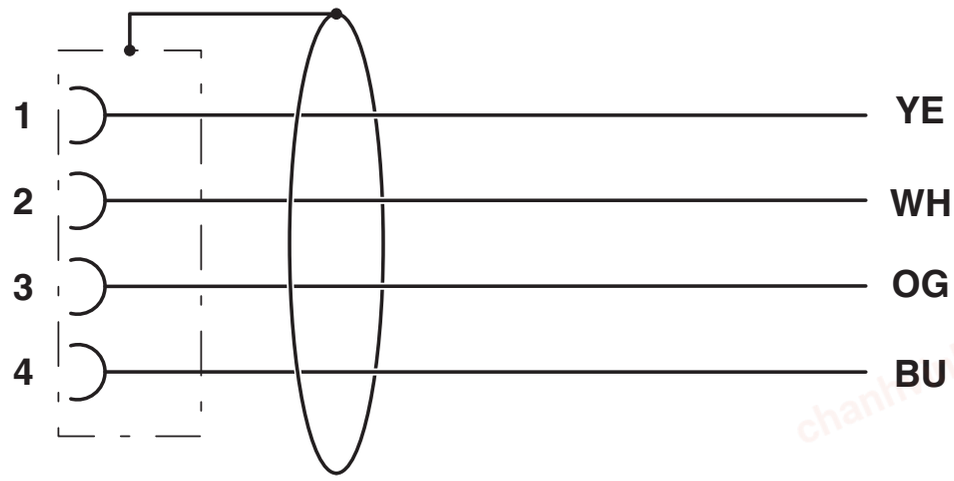
# Network cable - NBC- 2,0-93B/M12FSD

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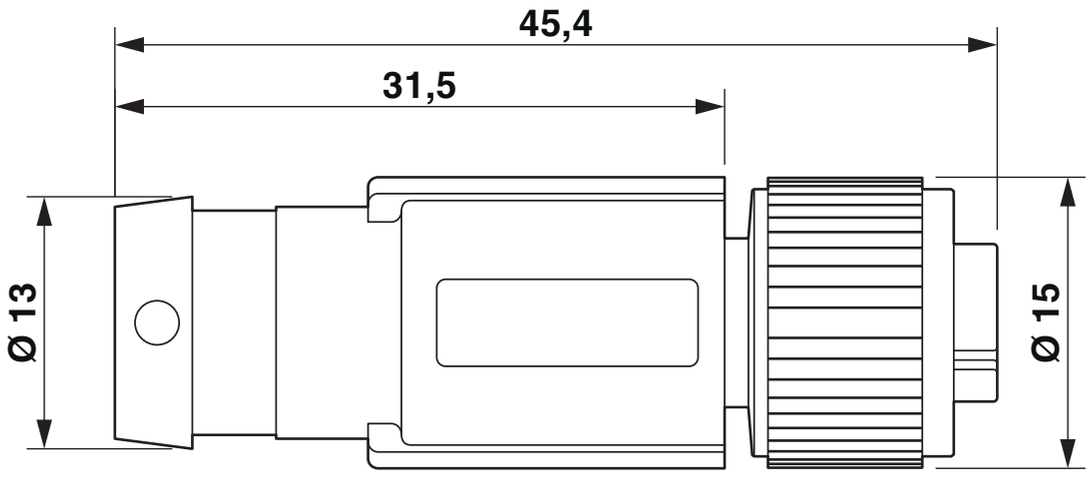
## Drawings

Circuit diagram




Contact assignment of the M12 socket

Dimensional drawing




M12 x 1 socket, straight, shielded

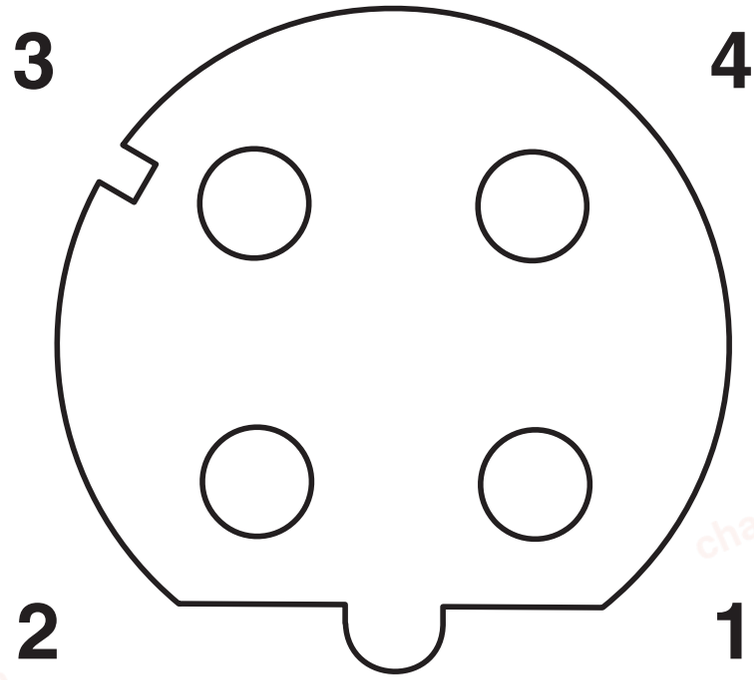
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# Network cable - NBC- 2,0-93B/M12FSD

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Schematic diagram




Pin assignment M12 socket, 4-pos., D-coded, female side

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# Network cable - NBC- 2,0-93B/M12FSD

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## Approvals

**cUL Recognized**
Approval ID: FILE E 335024

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| | 250 V | 4 A | - | - |

**UL Recognized**
Approval ID: FILE E 335024

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| | 250 V | 4 A | - | - |

**EAC**
Approval ID: RU D-DE.HB35.B.00387

**cULus Recognized**

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# Network cable - NBC- 2,0-93B/M12FSD

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-9.0 | 27060308 |
| ECLASS-10.0.1 | 27060308 |
| ECLASS-11.0 | 27060307 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC001855 |

### UNSPSC

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

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# Network cable - NBC- 2,0-93B/M12FSD

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## Environmental Product Compliance

| | |
|---|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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# Network cable - NBC- 2,0-93B/M12FSD

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https://www.phoenixcontact.com/gb/products/1407529

## Accessories

### Network cable

Network cable - NBC-MSD SCO-PN/.../... - 1408640

https://www.phoenixcontact.com/gb/products/1408640



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, Variable cable type, shielded, Plug straight M12 SPEEDCON / IP67, coding: D, on free cable end, cable length: Free input (0.2 ... 40.0 m)

### Network cable

Network cable - NBC-MRD SCO-PN/.../... - 1408633

https://www.phoenixcontact.com/gb/products/1408633



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, Variable cable type, shielded, Plug angled M12 SPEEDCON / IP67, coding: D, on free cable end, cable length: Free input (0.2 ... 40.0 m)

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# Network cable - NBC- 2,0-93B/M12FSD

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https://www.phoenixcontact.com/gb/products/1407529

## Network cable

Network cable - NBC-FSD SCO-PN/.../... - 1408623

https://www.phoenixcontact.com/gb/products/1408623



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, Variable cable type, shielded, free cable end, on Socket straight M12 SPEEDCON / IP67, coding: D, cable length: Free input (0.2 ... 40.0 m)

## Network cable

Network cable - NBC-FRD SCO-PN/.../... - 1408615

https://www.phoenixcontact.com/gb/products/1408615



Network cable, PROFINET CAT5 (100 Mbps), EtherCAT® CAT5 (100 Mbps), 4-position, Variable cable type, shielded, free cable end, on Socket angled M12 SPEEDCON / IP67, coding: D, cable length: Free input (0.2 ... 40.0 m)

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# Network cable - NBC- 2,0-93B/M12FSD

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## Torque screwdriver

Torque screwdriver - TSD 04 SAC - 1208429

https://www.phoenixcontact.com/gb/products/1208429



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

## Torque screwdriver

Torque screwdriver - TSD-M 1,2NM - 1212224

https://www.phoenixcontact.com/gb/products/1212224



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0. 3 - 1.2 Nm

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# Network cable - NBC- 2,0-93B/M12FSD

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## Adapter insert

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600

https://www.phoenixcontact.com/gb/products/1212600



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

## Tool

Tool - SAC BIT M12-D15 - 1208432

https://www.phoenixcontact.com/gb/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

# Network cable - NBC- 2,0-93B/M12FSD

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## Screw plug

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

https://www.phoenixcontact.com/gb/products/1430899

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets



## Locking clip

Locking clip - SAC-M12-EXCLIP-F - 1558991

https://www.phoenixcontact.com/gb/products/1558991

Locking clip for the socket 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



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# Network cable - NBC- 2,0-93B/M12FSD

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## Cable-cutting tool

Cable-cutting tool - CUTFOX 12 - 1212128

https://www.phoenixcontact.com/gb/products/1212128



Cable cutter, for copper and aluminum up to 12 mm diameter (up to 35 $mm^2$)

## Diagonal cutter

Diagonal cutter - CUTFOX-S VDE - 1212207

https://www.phoenixcontact.com/gb/products/1212207



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

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## Stripping tool

Stripping tool - VS-CABLE-STRIP-VARIO - 1657407

https://www.phoenixcontact.com/gb/products/1657407

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



## Diagonal cutter

Diagonal cutter - MICROFOX-SP-1 - 1212487

https://www.phoenixcontact.com/gb/products/1212487



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

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## Stripping tool

Stripping tool - WIREFOX 4 - 1212156

https://www.phoenixcontact.com/gb/products/1212156



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

## Stripping tool

Stripping tool - WIREFOX-E 4 - 1212704

https://www.phoenixcontact.com/gb/products/1212704



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

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# Network cable - NBC- 2,0-93B/M12FSD

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https://www.phoenixcontact.com/gb/products/1407529

## Stripping tool

Stripping tool - WIREFOX 10 - 1212150

https://www.phoenixcontact.com/gb/products/1212150



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

## Protective hose adapter

Protective hose adapter - WP-CTA POM 13,0 BK - 1422884

https://www.phoenixcontact.com/gb/products/1422884



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

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# Network cable - NBC- 2,0-93B/M12FSD

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https://www.phoenixcontact.com/gb/products/1407529

## Protective hose

Protective hose - WP-PA HF 13,0 BK - 3240681

https://www.phoenixcontact.com/gb/products/3240681



Protective hose, material: PA 6, filament: without, UV-resistant: yes, flexible, degree of protection: IP68, color: black, inflammability class in acc. with UL 94: V0, inner diameter: 10 mm, Total length: 50 m

## Protective hose

Protective hose - WP-PA HF-HB 13,0 BK - 3240839

https://www.phoenixcontact.com/gb/products/3240839



Protective hose, material: PA 6, filament: without, UV-resistant: yes, flexible, degree of protection: IP68, color: black, inflammability class in acc. with UL 94: HB, inner diameter: 10 mm, Total length: 50 m

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# Network cable - NBC- 2,0-93B/M12FSD

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## Data connector

Data connector - SACC-M12MSD-4QO SH PN - 1411068

https://www.phoenixcontact.com/gb/products/1411068



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

## Data connector

Data connector - SACC-M12MRD-4Q SH PN - 1554539

https://www.phoenixcontact.com/gb/products/1554539



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

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# Network cable - NBC- 2,0-93B/M12FSD

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https://www.phoenixcontact.com/gb/products/1407529

## Data connector

Data connector - SACC-M12FSD-4QO SH PN - 1411071

https://www.phoenixcontact.com/gb/products/1411071



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

## Data connector

Data connector - SACC-M12FRD-4Q SH PN - 1554542

https://www.phoenixcontact.com/gb/products/1554542



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

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## Conductor connectors

Conductor connectors - SACC-CC-4QO SH PN - 1414416

https://www.phoenixcontact.com/gb/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

## Data connector

Data connector - SACC-M12MSD-4PL SH PN - 1424682

https://www.phoenixcontact.com/gb/products/1424682



Data 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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# Network cable - NBC- 2,0-93B/M12FSD

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## Data connector

Data connector - SACC-M12MRD-4PL SH PN - 1424684

https://www.phoenixcontact.com/gb/products/1424684



Data 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

## Data connector

Data connector - SACC-M12FSD-4PL SH PN - 1424683

https://www.phoenixcontact.com/gb/products/1424683



Data 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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## Data connector

Data connector - SACC-M12FRD-4PL SH PN - 1424685

https://www.phoenixcontact.com/gb/products/1424685



Data 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

## Data connector

Data connector - SACC-M12MSD-4CT-CM SH PN - 1422846

https://www.phoenixcontact.com/gb/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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# Network cable - NBC- 2,0-93B/M12FSD

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## Data connector

Data connector - SACC-M12MRD-4CT-CM SH PN - 1422847

https://www.phoenixcontact.com/gb/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

## Data connector

Data connector - SACC-M12FSD-4CT-CM SH PN - 1422848

https://www.phoenixcontact.com/gb/products/1422848



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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# Network cable - NBC- 2,0-93B/M12FSD

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## Data connector

Data connector - SACC-M12FRD-4CT-CM SH PN - 1422849

https://www.phoenixcontact.com/gb/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

## RJ45 connector

RJ45 connector - VS-PN-RJ45-5-Q/IP20 - 1658435

https://www.phoenixcontact.com/gb/products/1658435



RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 4, 100 Mbps, CAT5 (IEC 11801:2002), material: PA, connection method: IDC fast connection, cable outlet: straight, color: traffic grey A RAL 7042, PROFINET

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## RJ45 connector

RJ45 connector - CUC-IND-C1ZNI-S/R4IP8 - 1421126

https://www.phoenixcontact.com/gb/products/1421126



RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Zinc die-cast, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: straight, color: green, PROFINET

## RJ45 connector

RJ45 connector - CUC-IND-C1ZNI-T/R4IP8 - 1421128

https://www.phoenixcontact.com/gb/products/1421128



RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Zinc die-cast, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet/PROFINET

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# Network cable - NBC- 2,0-93B/M12FSD

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## RJ45 connector

RJ45 connector - CUC-IND-C1ZNI-B/R4IP8 - 1421127

https://www.phoenixcontact.com/gb/products/1421127



RJ45 connector, type: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Zinc die-cast, connection method: IDC fast connection, connection cross section: AWG 23- 22, cable outlet: angled, Ethernet/PROFINET

## RJ45 connector

RJ45 connector - CUC-V14-C1ZNI-S/R4P8 - 1422664

https://www.phoenixcontact.com/gb/products/1422664



Push-pull connector (version 14), die-cast zinc, with RJ45 connector insert, 8-pos., with IDC fast connection technology, for 1 and 7-wire cores, 23 ... 22 AWG, for cable diameter of 5.5 mm ... 10 mm

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# Network cable - NBC- 2,0-93B/M12FSD

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## RJ45 connector

RJ45 connector - CUC-V14-C1ZNI-T/R4P8 - 1422667

https://www.phoenixcontact.com/gb/products/1422667



Push-pull connector (version 14), die-cast zinc, with RJ45 connector insert, 8-pos., with IDC fast connection technology, for 1 and 7-wire cores, 23 ... 22 AWG, for cable diameter of 5.5 mm ... 10 mm

## RJ45 connector

RJ45 connector - CUC-V14-C1ZNI-B/R4P8 - 1422665

https://www.phoenixcontact.com/gb/products/1422665



Push-pull connector (version 14), die-cast zinc, with RJ45 connector insert, 8-pos., with IDC fast connection technology, for 1 and 7-wire cores, 23 ... 22 AWG, for cable diameter of 5.5 mm ... 10 mm

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