

# NBC-MS/ 5,0-94B SCO - Network cable



1407406

<https://www.phoenixcontact.com/us/products/1407406>

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Network cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Aluminum-coated foil, tinned copper braided shield), Plug straight M12 SPEEDCON, coding: A / IP67, on free cable end, cable length: 5 m

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1407406             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | BF04                |
| Product key                          | BF1CMI              |
| Catalog page                         | Page 401 (C-2-2019) |
| GTIN                                 | 4046356775342       |
| Weight per piece (including packing) | 261.5 g             |
| Weight per piece (excluding packing) | 224.95 g            |
| Customs tariff number                | 85444210            |
| Country of origin                    | PL                  |

## Technical data

### Notes

|         |                                                                                                             |
|---------|-------------------------------------------------------------------------------------------------------------|
| 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          | Ethernet                |
| Number of positions  | 8                       |
| No. of cable outlets | 1                       |
| Shielded             | yes                     |
| Coding               | A                       |

### Interfaces

|                      |                                            |
|----------------------|--------------------------------------------|
| Bus system           | Ethernet                                   |
| Signal type/category | Ethernet CAT5 (based on IEC 11801), 1 Gbps |

### Signaling

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

### Electrical properties

|                                         |                       |
|-----------------------------------------|-----------------------|
| Nominal voltage $U_N$                   | 48 V AC               |
|                                         | 60 V DC               |
| Nominal current $I_N$                   | 2 A                   |
| Transmission medium                     | Copper                |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002) |

### Connector

#### Connection 1

|                             |                                                    |
|-----------------------------|----------------------------------------------------|
| Type                        | Plug straight M12 SPEEDCON / IP67                  |
| Number of positions         | 8                                                  |
| Locking type                | SPEEDCON                                           |
| Coding type                 | A (Standard)                                       |
| Handle color                | black                                              |
| Material                    | CuZn (Contact)                                     |
|                             | Ni/Au (Contact surface)                            |
|                             | TPU GF (Contact carriers)                          |
|                             | TPU, hardly inflammable, self-extinguishing (Grip) |
|                             | Zinc die-cast, nickel-plated (Screw connection)    |
| Insertion/withdrawal cycles | ≥ 100                                              |
| Insulation resistance       | ≥ 100 MΩ                                           |

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|                                 |                  |
|---------------------------------|------------------|
| Tightening torque               | 0.4 Nm           |
| Degree of protection            | IP67             |
| Ambient temperature (operation) | -25 °C ... 90 °C |

## Connection 2

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

## Cable/line

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

## Ethernet flexible CAT5, 4-pair [94B]

|                                 |                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------|
| Dimensional drawing             |  |
| Cable weight                    | 47 kg/km                                                                            |
| UL AWM Style                    | 20963 (80°C/30 V)                                                                   |
| Number of positions             | 8                                                                                   |
| Shielded                        | yes                                                                                 |
| Cable type                      | Ethernet flexible CAT5, 4-pair [94B]                                                |
| Conductor structure             | 4x2xAWG26/7, SF/UTP                                                                 |
| Signal runtime                  | 5.3 ns/m                                                                            |
| Conductor structure signal line | 7x 0.16 mm                                                                          |
| AWG signal line                 | 26                                                                                  |
| Conductor cross section         | 4x 2x 0.14 mm <sup>2</sup>                                                          |
| Wire diameter incl. insulation  | 0.96 mm                                                                             |
| External cable diameter         | 6.40 mm ±0.2 mm                                                                     |
| Outer sheath, material          | PUR                                                                                 |
| External sheath, color          | water blue RAL 5021                                                                 |
| Conductor material              | Bare Cu litz wires                                                                  |
| Material wire insulation        | Foamed PE                                                                           |
| Single wire, color              | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown          |
| Thickness, outer sheath         | 1.05 mm                                                                             |
| Twisted pairs                   | 2 cores to the pair                                                                 |
| Overall twist                   | 4 pairs for core                                                                    |
| Optical shield covering         | 70 %                                                                                |
| Insulation resistance           | ≥ 5 GΩ*km                                                                           |
| Coupling resistance             | ≤ 100.00 mΩ/m (at 10 MHz)                                                           |
| Loop resistance                 | ≤ 290.00 Ω/km                                                                       |
| Wave impedance                  | 100 Ω ±5 Ω (at 100 MHz)                                                             |

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|                                                      |                                 |
|------------------------------------------------------|---------------------------------|
| Cable capacity                                       | 48 nF/km (at 1 kHz)             |
| Nominal voltage, cable                               | ≤ 100 V                         |
| Test voltage Core/Core                               | 700 V (50 Hz, 1 min.)           |
| Test voltage Core/Shield                             | 700.00 V (50 Hz, 1 min.)        |
| Minimum bending radius, fixed installation           | 4 x D                           |
| Minimum bending radius, flexible installation        | 8 x D                           |
| Smallest bending radius, fixed installation          | 26 mm                           |
| Smallest bending radius, movable installation        | 52 mm                           |
| Tensile strength                                     | ≤ 100 N                         |
| Near end crosstalk attenuation (NEXT)                | 71.3 dB (with 1 MHz)            |
|                                                      | 62.3 dB (at 4 MHz)              |
|                                                      | 56.3 dB (at 10 MHz)             |
|                                                      | 53.2 dB (at 16 MHz)             |
|                                                      | 51.8 dB (at 20 MHz)             |
|                                                      | 48.9 dB (at 31.25 MHz)          |
|                                                      | 44.4 dB (at 62.5 MHz)           |
|                                                      | 41.3 dB (at 100 MHz)            |
| Power-summed near end crosstalk attenuation (PSNEXT) | 62.3 dB (with 1 MHz)            |
|                                                      | 53.3 dB (at 4 MHz)              |
|                                                      | 47.3 dB (at 10 MHz)             |
|                                                      | 44.2 dB (at 16 MHz)             |
|                                                      | 42.8 dB (at 20 MHz)             |
|                                                      | 39.9 dB (at 31.25 MHz)          |
|                                                      | 35.4 dB (at 62.5 MHz)           |
|                                                      | 32.3 dB (at 100 MHz)            |
| Return attenuation (RL)                              | 23 dB (at 4 MHz)                |
|                                                      | 24.1 dB (at 8 MHz)              |
|                                                      | 25 dB (at 10 MHz)               |
|                                                      | 25 dB (at 16 MHz)               |
|                                                      | 25 dB (at 20 MHz)               |
|                                                      | 23.6 dB (at 31.25 MHz)          |
|                                                      | 21.5 dB (at 62.5 MHz)           |
|                                                      | 20.1 dB (at 100 MHz)            |
| Shield attenuation                                   | 3.2 dB (with 1 MHz)             |
|                                                      | 6 dB (at 4 MHz)                 |
|                                                      | 9.5 dB (at 10 MHz)              |
|                                                      | 12.1 dB (at 16 MHz)             |
|                                                      | 13.6 dB (at 20 MHz)             |
|                                                      | 17.1 dB (at 31.25 MHz)          |
|                                                      | 24.8 dB (at 62.5 MHz)           |
|                                                      | 32 dB (at 100 MHz)              |
| Halogen-free                                         | according to IEC 60754-1        |
| Flame resistance                                     | according to IEC 60332-1-2      |
| Resistance to oil                                    | in accordance with EN 60811-2-1 |

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|                                    |                                                 |
|------------------------------------|-------------------------------------------------|
| Ambient temperature (operation)    | -40 °C ... 80 °C (cable, fixed installation)    |
|                                    | -20 °C ... 80 °C (Cable, flexible installation) |
| Ambient temperature (installation) | -20 °C ... 80 °C                                |

## Environmental and real-life conditions

### Ambient conditions

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

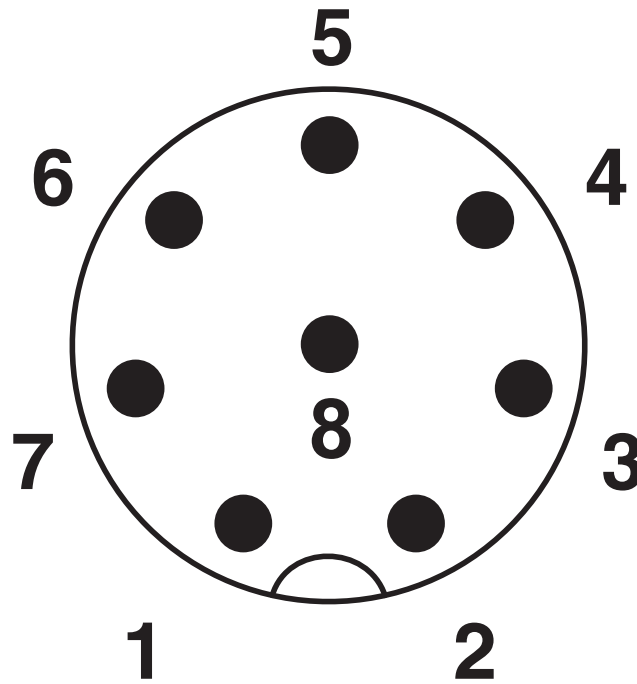
## Standards and regulations

### M12

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

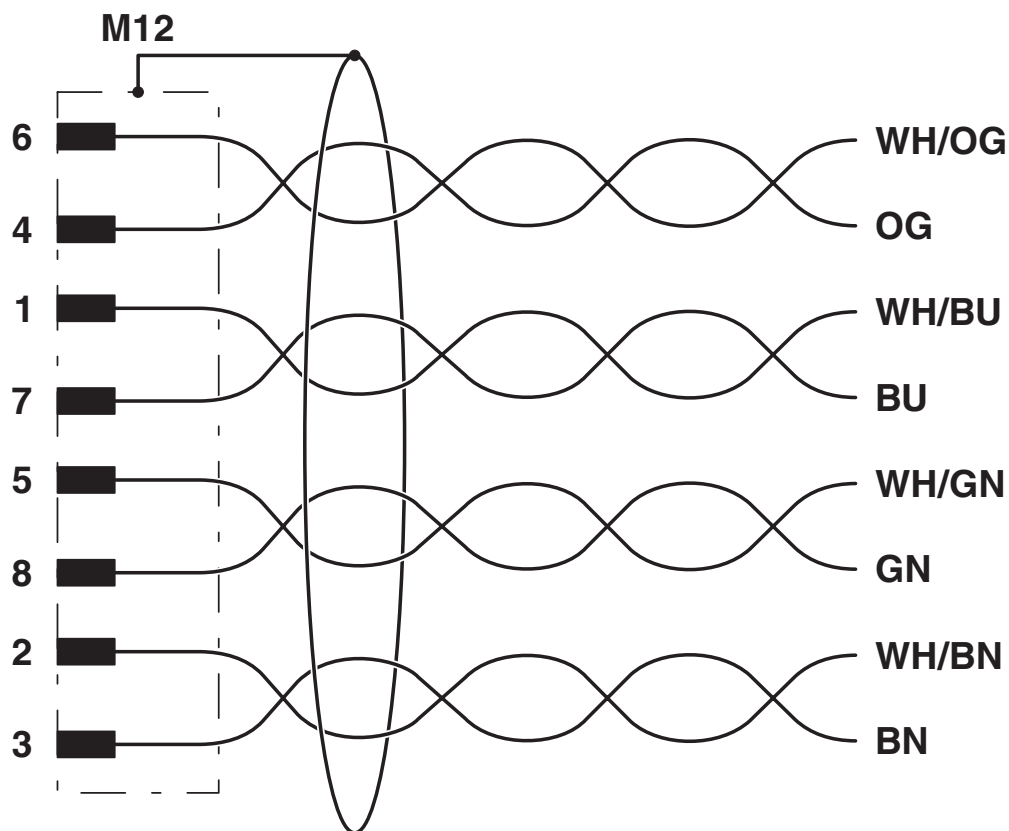
## Drawings

Schematic diagram

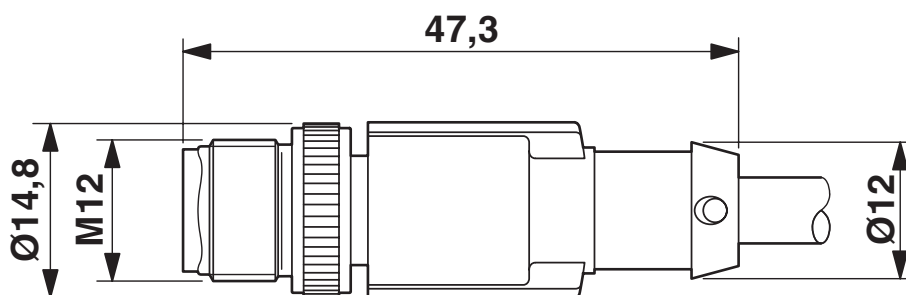


Pin assignment M12 plug, 8-pos., A-coded, view plug side

Circuit diagram



Dimensional drawing



Plug, M12 x 1, straight, shielded

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1407406>

|                                                                                                                                       |                                |                                |                   |                               |
|---------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>cUL Recognized</b><br>Approval ID: FILE E 335024 |                                |                                |                   |                               |
|                                                                                                                                       | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                                                                                                                       | 30 V                           | 1.5 A                          | -                 | -                             |

|                                                                                                                                      |                                |                                |                   |                               |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|
|  <b>UL Recognized</b><br>Approval ID: FILE E 335024 |                                |                                |                   |                               |
|                                                                                                                                      | Nominal voltage U <sub>N</sub> | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|                                                                                                                                      | 30 V                           | 1.5 A                          | -                 | -                             |

|                                                                                                                                         |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>EAC-RoHS</b><br>Approval ID: RU D-DE.HB35.B.00387 |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

|                         |  |  |  |  |
|-------------------------|--|--|--|--|
| <b>cULus Recognized</b> |  |  |  |  |
|-------------------------|--|--|--|--|

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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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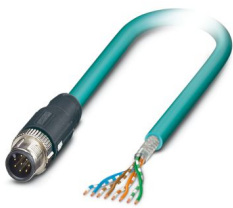
<https://www.phoenixcontact.com/us/products/1407406>

## Accessories

### NBC-MS SCO-IE/.../... - Network cable

1408682

<https://www.phoenixcontact.com/us/products/1408682>



Network cable, Ethernet CAT5 (1 Gbps), 8-position, Plug straight M12 SPEEDCON, coding: A / IP67, on free cable end, cable length: Free input (0.2 ... 40.0 m)

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### NBC-MR SCO-IE/.../... - Network cable

1408675

<https://www.phoenixcontact.com/us/products/1408675>



Network cable, Ethernet CAT5 (1 Gbps), 8-position, Plug angled M12 SPEEDCON, coding: A / IP67, on free cable end, cable length: Free input (0.2 ... 40.0 m)

## NBC-MS/ 5,0-94B SCO - Network cable

1407406

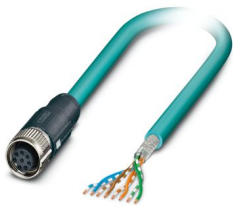
<https://www.phoenixcontact.com/us/products/1407406>



## NBC-FS SCO-IE/.../... - Network cable

1408665

<https://www.phoenixcontact.com/us/products/1408665>



Network cable, Ethernet CAT5 (1 Gbps), 8-position, free cable end, on Socket straight M12 SPEEDCON, coding: A / IP67, cable length: Free input (0.2 ... 40.0 m)

## NBC-FR SCO-IE/.../... - Network cable

1408657

<https://www.phoenixcontact.com/us/products/1408657>



Network cable, Ethernet CAT5 (1 Gbps), 8-position, free cable end, on Socket angled M12 SPEEDCON, coding: A / IP67, cable length: Free input (0.2 ... 40.0 m)

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

1430873

<https://www.phoenixcontact.com/us/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/us/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



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

1422884

<https://www.phoenixcontact.com/us/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/us/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, inner diameter: 10 mm, Total length: 50 m

## NBC-MS/ 5,0-94B SCO - Network cable

1407406

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

3240839

<https://www.phoenixcontact.com/us/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, inner diameter: 10 mm, Total length: 50 m

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## SACC-M12MS-8QO SH ETH - Data connector

1421679

<https://www.phoenixcontact.com/us/products/1421679>



Data connector, Ethernet CAT5 (1 Gbps), 8-position, halogen-free, shielded, Plug straight M12, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

## NBC-MS/ 5,0-94B SCO - Network cable

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### SACC-M12MR-8Q SH - Data connector

1553653

<https://www.phoenixcontact.com/us/products/1553653>



Data connector, Ethernet CAT5 (1 Gbps), 8-position, shielded, Plug angled M12, coding: A, Insulation displacement connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

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### SACC-M12FS-8QO SH ETH - Data connector

1421680

<https://www.phoenixcontact.com/us/products/1421680>



Data connector, Ethernet CAT5 (1 Gbps), 8-position, halogen-free, shielded, Socket straight M12, coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

# NBC-MS/ 5,0-94B SCO - Network cable

1407406

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## SACC-M12FR-8Q SH - Data connector

1553666

<https://www.phoenixcontact.com/us/products/1553666>



Data connector, Ethernet CAT5 (1 Gbps), 8-position, shielded, Socket angled M12, coding: A, Insulation displacement connection, knurl material: Brass, nickel-plated, external cable diameter 4 mm ... 8 mm

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## VS-08-RJ45-5-Q/IP20 - RJ45 connector

1656725

<https://www.phoenixcontact.com/us/products/1656725>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: traffic grey A RAL 7042, Ethernet

# NBC-MS/ 5,0-94B SCO - Network cable

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<https://www.phoenixcontact.com/us/products/1407406>



## VS-08-RJ45-5-Q/IP20 BK - RJ45 connector

1658008

<https://www.phoenixcontact.com/us/products/1658008>



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 1 Gbps, CAT5, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 23, cable outlet: straight, color: black, Ethernet

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## CUC-IND-C1ZNI-S/R4IE8 - RJ45 connector

1421607

<https://www.phoenixcontact.com/us/products/1421607>



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 26- 24, cable outlet: straight, color: green, Ethernet

# NBC-MS/ 5,0-94B SCO - Network cable

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## CUC-IND-C1ZNI-T/R4IE8 - RJ45 connector

1421877

<https://www.phoenixcontact.com/us/products/1421877>



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 26- 24, cable outlet: angled, Ethernet

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## CUC-IND-C1ZNI-B/R4IE8 - RJ45 connector

1421876

<https://www.phoenixcontact.com/us/products/1421876>



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 26- 24, cable outlet: angled, Ethernet

# NBC-MS/ 5,0-94B SCO - Network cable



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## CUC-V06-C1PGY-S/R4CE8:1 - RJ45 connector

1414383

<https://www.phoenixcontact.com/us/products/1414383>



RJ45 connector, design: RJ45, degree of protection: IP67, number of positions: 8, 1 Gbps, CAT6, material: Plastic, connection method: Crimp connection, connection cross section: AWG 27- 24, cable outlet: straight, color: gray, Ethernet/PROFINET

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## CUC-V06-C1PBK-S/R4CE8:1 - RJ45 connector

1414408

<https://www.phoenixcontact.com/us/products/1414408>



RJ45 connector, design: RJ45, degree of protection: IP67, number of positions: 8, 1 Gbps, CAT6, material: Plastic, connection method: Crimp connection, connection cross section: AWG 24- 27, cable outlet: straight, color: black, Ethernet/PROFINET

# NBC-MS/ 5,0-94B SCO - Network cable



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## CUC-V14-C1ZNI-S/R4E8 - RJ45 connector

1422661

<https://www.phoenixcontact.com/us/products/1422661>



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 26- 24, cable outlet: straight, Ethernet

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## CUC-V14-C1ZNI-T/R4E8 - RJ45 connector

1422663

<https://www.phoenixcontact.com/us/products/1422663>



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 26- 24, cable outlet: angled, Ethernet

# NBC-MS/ 5,0-94B SCO - Network cable



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## CUC-V14-C1ZNI-B/R4E8 - RJ45 connector

1422662

<https://www.phoenixcontact.com/us/products/1422662>



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 26- 24, cable outlet: angled, Ethernet

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## VS-PPC-C1-RJ45-POBK-PG9-8Q5 - RJ45 connector

1657834

<https://www.phoenixcontact.com/us/products/1657834>



RJ45 connector, degree of protection: IP65/IP67, number of positions: 8, 1 Gbps, CAT5 (IEC 11801:2002), material: Plastic, connection method: IDC fast connection, connection cross section: AWG 26- 22, cable outlet: straight, color: black, Ethernet

## NBC-MS/ 5,0-94B SCO - Network cable

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## TSD 04 SAC - Torque screwdriver

1208429

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



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

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

1212224

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



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

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## SAC BIT M12-D15 - Tool

1208432

<https://www.phoenixcontact.com/us/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

## NBC-MS/ 5,0-94B SCO - Network cable

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### CUTFOX 12 - Cable-cutting tool

1212128

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



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

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### CUTFOX-S VDE - Diagonal cutter

1212207

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



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

## NBC-MS/ 5,0-94B SCO - Network cable

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

1657407

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

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



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## MICROFOX-SP-1 - Diagonal cutter

1212487

<https://www.phoenixcontact.com/us/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/us/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

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## WIREFOX-E 4 - Stripping tool

1212704

<https://www.phoenixcontact.com/us/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

# NBC-MS/ 5,0-94B SCO - Network cable



1407406

<https://www.phoenixcontact.com/us/products/1407406>

## WIREFOX 10 - Stripping tool

1212150

<https://www.phoenixcontact.com/us/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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