

1080724

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Network cable, Ethernet CAT6 $_{\rm A}$  (10 Gbps) CAT6 $_{\rm A}$  (10 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded (Advanced Shielding Technology), Plug straight M12, coding: X / IP67, on Plug angled M12, coding: X / IP67, cable length: 1 m

### Commercial data

| Item number                          | 1080724             |
|--------------------------------------|---------------------|
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | ****                |
| Product key                          | AF1CMJ              |
| Catalog page                         | Page 403 (C-2-2019) |
| GTIN                                 | 4055626805696       |
| Weight per piece (including packing) | 93.1 g              |
| Weight per piece (excluding packing) | 91 g                |
| Customs tariff number                | 85444290            |
| Country of origin                    | PL                  |



1080724

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## Technical data

## Product properties

| Product type         | Data cable preassembled |
|----------------------|-------------------------|
| Application          | Standard                |
| Sensor type          | Ethernet                |
| Number of positions  | 8                       |
| No. of cable outlets | 1                       |
| Shielded             | yes                     |
| Coding               | X                       |

### Interfaces

| Bus system           | Ethernet                             |
|----------------------|--------------------------------------|
| Signal type/category | Ethernet CAT6 <sub>A</sub> , 10 Gbps |

## Signaling

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

## Electrical properties

| Nominal voltage $U_N$                   | 48 V AC           |
|---|-------------------|
|   | 60 V DC           |
| Nominal current I <sub>N</sub>          | 0.5 A             |
| Transmission medium                     | Copper            |
| Transmission characteristics (category) | CAT6 <sub>A</sub> |

### Connector

### Connection 1

| Dimensional drawing         | Pin assignment of M12 plug, 8-pos., X-coded, pin side view                          |
|-----------------------------|---|
| Туре                        | M12 Plug, straight, 8-position, shielded (Advanced Shielding Technology), Keying: X |
| Number of positions         | 8   |
| Shielded                    | yes   |
| Shielding                   | Advanced Shielding Technology   |
| Signal type/category        | Ethernet CAT6 <sub>A</sub> , 10 Gbps  |
|                             | CC-Link IE CAT6 <sub>A</sub> , 10 Gbps  |
| Insertion/withdrawal cycles | ≥ 100   |



1080724

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| Insulation resistance                  | ≥ 100 Ω                                     |
|--|---|
| Overvoltage category                   | II  |
| Degree of pollution                    | 3   |
| Tightening torque                      | 0.4 Nm (M12 connector)                      |
| Material Contact                       | CuZn  |
| 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  |
|  | IP67  |
| Ambient temperature (operation)        | -25 °C 85 °C                                |
| Standard designation                   | M12 connector                               |
| Standards/regulations                  | IEC 61076-2-109                             |

### Connection 2

| Dimensional drawing                    | Pin assignment of M12 plug, 8-pos., X-coded, pin side view                        |
|--|---|
| Туре                                   | M12 Plug, angled, 8-position, shielded (Advanced Shielding Technology), Keying: X |
| Number of positions                    | 8   |
| Shielded                               | yes   |
| Shielding                              | Advanced Shielding Technology   |
| Signal type/category                   | Ethernet CAT6 <sub>A</sub> , 10 Gbps  |
| Insertion/withdrawal cycles            | ≥ 100   |
| Insulation resistance                  | ≥ 100 Ω   |
| Overvoltage category                   | II  |
| Degree of pollution                    | 3   |
| Tightening torque                      | 0.4 Nm (M12 connector)  |
| Material Contact                       | CuZn  |
| 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  |
|  | IP67  |



1080724

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| Ambient temperature (operation) | -25 °C 85 °C   |
|---------------------------------|--|
| Standard designation            | M12 connector  |
| Standards/regulations           | IEC 61076-2-109  |
| le/line                         |  |
| Cable length                    | 1 m  |
| hernet 10 Gbit [94F]            |  |
| Dimensional drawing             |  |
|                                 |  |
| Cable weight                    | 42 kg/km   |
| UL AWM Style                    | 20963 (80°C/30 V)  |
| Number of positions             | 8  |
| Shielded                        | yes  |
| Cable type                      | Ethernet 10 Gbit [94F]   |
| Conductor structure             | 4x2xAWG26/7; S/FTP   |
| Signal runtime                  | 5.13 ns/m  |
| Conductor structure signal line | 7x 0.16 mm   |
| AWG signal line                 | 26   |
| Conductor cross section         | 4x 2x 0.14 mm²   |
| Wire diameter incl. insulation  | 1.04 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         | 0.65 mm  |
| Twisted pairs                   | 2 cores to the pair  |
| Type of pair shielding          | Aluminum-lined foil  |
| Overall twist                   | 4 pairs for core   |
| Optical shield covering         | 70 %   |
| Insulation resistance           | ≥ 500 MΩ*km  |
|                                 | < 200 00 0/lm  |
| Loop resistance                 | ≤ 290.00 Ω/km  |
| Loop resistance Wave impedance  | 100 Ω ±5 Ω (at 100 MHz)  |
|                                 |  |



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| 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)                  | 75.3 dB (with 1 MHz)     |
| ,  | 66.3 dB (at 4 MHz)       |
|  | 61.8 dB (at 8 MHz)       |
|  | 60.3 dB (at 10 MHz)      |
|  | 57.2 dB (at 16 MHz)      |
|  | 55.8 dB (at 20 MHz)      |
|  | 54.3 dB (at 25 MHz)      |
|  | 52.8 dB (at 31.25 MHz)   |
|  | 48.4 dB (at 62.5 MHz)    |
|  | 45.3 dB (at 100 MHz)     |
|  | 40.8 dB (at 200 MHz)     |
|  | 39.3 dB (at 250 MHz)     |
|  | 38.1 dB (at 300 MHz)     |
|  | 38.1 dB (at 400 MHz)     |
|  | 38.1 dB (at 500 MHz)     |
| Power-summated near end crosstalk attenuation (PSNEXT) | 72.3 dB (with 1 MHz)     |
|  | 63.3 dB (at 4 MHz)       |
|  | 58.8 dB (at 8 MHz)       |
|  | 57.3 dB (at 10 MHz)      |
|  | 54.2 dB (at 16 MHz)      |
|  | 52.8 dB (at 20 MHz)      |
|  | 51.3 dB (at 25 MHz)      |
|  | 49.9 dB (at 31.25 MHz)   |
|  | 45.4 dB (at 62.5 MHz)    |
|  | 42.3 dB (at 100 MHz)     |
|  | 37.8 dB (at 200 MHz)     |
|  | 36.3 dB (at 250 MHz)     |
|  | 35.1 dB (at 300 MHz)     |
|  | 33.3 dB (at 400 MHz)     |
|  | 31.8 dB (at 500 MHz)     |
| Return attenuation (RL)                                | 20 dB (with 1 MHz)       |
|  | 23 dB (at 4 MHz)         |
|  | 24.5 dB (at 8 MHz)       |
|  | 25 dB (at 10 MHz)        |
|  | 25 dB (at 16 MHz)        |
|  | 25 dB (at 20 MHz)        |
|  | 24.2 dB (at 25 MHz)      |



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|                                    | 23.3 dB (at 31.25 MHz)                      |
|------------------------------------|---|
|                                    | 20.7 dB (at 62.5 MHz)                       |
|                                    | 19 dB (at 100 MHz)                          |
|                                    | 16.4 dB (at 200 MHz)                        |
|                                    | 15.6 dB (at 250 MHz)                        |
|                                    | 15.6 dB (at 300 MHz)                        |
|                                    | 15.6 dB (at 400 MHz)                        |
|                                    | 15.6 dB (at 500 MHz)                        |
| Shield attenuation                 | 3.1 dB (with 1 MHz)                         |
|                                    | 5.7 dB (at 4 MHz)                           |
|                                    | 8 dB (at 8 MHz)                             |
|                                    | 8.9 dB (at 10 MHz)                          |
|                                    | 11.2 dB (at 16 MHz)                         |
|                                    | 12.6 dB (at 20 MHz)                         |
|                                    | 14.1 dB (at 25 MHz)                         |
|                                    | 15.8 dB (at 31.25 MHz)                      |
|                                    | 22.5 dB (at 62.5 MHz)                       |
|                                    | 28.7 dB (at 100 MHz)                        |
|                                    | 41.4 dB (at 200 MHz)                        |
|                                    | 46.6 dB (at 250 MHz)                        |
|                                    | 51.4 dB (at 300 MHz)                        |
|                                    | 60.1 dB (at 400 MHz)                        |
|                                    | 67.9 dB (at 500 MHz)                        |
|                                    | ≥ 80.00 dB (at 30 100 MHz)                  |
| Halogen-free                       | according to IEC 60754-1                    |
| 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         |
| 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 61076-2-109 |



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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1080724

| UL Listed 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                           | 0.5 A                          | -                 | -                             |

| • <u>®</u> | <b>cUL Listed</b> Approval ID: FILE E 33502 | 24                    |                                |                   |                               |
|------------|---|-----------------------|--------------------------------|-------------------|-------------------------------|
|            |   | Nominal voltage $U_N$ | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|            |   | 30 V                  | 0.5 A                          | -                 | -                             |

| cULus | Listed |
|-------|--------|
| COLUS | Listen |



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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%               |  |  |
| EF3.0 Climate Change                    |  |  |  |
| CO2e kg                                 | 2.195 kg CO2e                            |  |  |



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### Accessories

### 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



### 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



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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  $\times$  13), corrugated in parallel

### 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



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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

#### SACC-M12MSX-8QO SH ETH - Data connector

1411043

https://www.phoenixcontact.com/in/products/1411043



Data connector, Ethernet CAT6<sub>A</sub> (10 Gbps), 8-position, halogen-free, shielded, Plug straight M12, coding: X, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm



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#### SACC-M12FSX-8QO SH ETH - Data connector

1414586

https://www.phoenixcontact.com/in/products/1414586



Data connector, Ethernet  $CAT6_A$  (10 Gbps), 8-position, halogen-free, shielded, Socket straight M12, coding: X, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

#### SACC-CC-8QO SH ETH - Conductor connector

1414412

https://www.phoenixcontact.com/in/products/1414412



Cable connector, Ethernet CAT6 $_{\rm A}$  (10 Gbps), 8-pos., halogen-free, shielded, insulation displacement connection, housing material: zinc die-cast, nickel-plated, outer cable diameter of 5 mm ... 9.7 mm



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## VS-08-M12MS-10G-P SCO - Data connector

1417430

https://www.phoenixcontact.com/in/products/1417430



Data connector, Ethernet CAT6 $_{\rm A}$  (10 Gbps), 8-position, shielded, Plug straight M12 SPEEDCON, coding: X, Piercecon® fast connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

#### VS-08-M12MR-10G-P SCO - Data connector

1417443

https://www.phoenixcontact.com/in/products/1417443



Data connector, Ethernet CAT6 $_{\rm A}$  (10 Gbps), 8-position, shielded, Plug angled M12 SPEEDCON, coding: X, Piercecon® fast connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm



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#### SACC-M12MSX-8CT-CL SH - Data connector

1422844

https://www.phoenixcontact.com/in/products/1422844



Data connector, Ethernet  ${\rm CAT6_A}$  (10 Gbps), PROFINET  ${\rm CAT6_A}$  (10 Gbps), 8-position, shielded, Plug straight M12, coding: X, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 6.5 mm ... 10 mm, without crimp contacts

#### SACC-M12MRX-8CT-CL SH - Data connector

1422845

https://www.phoenixcontact.com/in/products/1422845



Data connector, Ethernet CAT6 $_{\rm A}$  (10 Gbps), PROFINET CAT6 $_{\rm A}$  (10 Gbps), 8-position, shielded, Plug angled M12, coding: X, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 6.5 mm ... 10 mm, without crimp contacts



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#### VS-08-RJ45-10G/Q - RJ45 connector

1419001

https://www.phoenixcontact.com/in/products/1419001



RJ45 connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, material: Plastic, connection method: Insulation displacement connection, connection cross section: AWG 26- 24, cable outlet: straight, color: black, Ethernet

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

1421607

https://www.phoenixcontact.com/in/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



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

1421877

https://www.phoenixcontact.com/in/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

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

1421876

https://www.phoenixcontact.com/in/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



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#### CUC-V06-C1PGY-S/R4CEA:1 - RJ45 connector

1414406

https://www.phoenixcontact.com/in/products/1414406



RJ45 connector, design: RJ45, degree of protection: IP67, number of positions: 2, 10 Gbps, CAT6<sub>A</sub>, material: Plastic, connection method: Crimp connection, connection cross section: AWG 24- 27, cable outlet: straight, color: gray, Ethernet/PROFINET

#### CUC-V06-C1PBK-S/R4CEA:1 - RJ45 connector

1414410

https://www.phoenixcontact.com/in/products/1414410



RJ45 connector, design: RJ45, degree of protection: IP67, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, material: Plastic, connection method: Crimp connection, connection cross section: AWG 24- 27, cable outlet: straight, color: black, Ethernet/PROFINET



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## VS-PPC-C1-RJ45-POBK-8I10G - RJ45 connector

1422205

https://www.phoenixcontact.com/in/products/1422205



RJ45 connector, degree of protection: IP65/IP67, number of positions: 8, 10 Gbps, CAT6<sub>A</sub>, material: Plastic, connection method: Crimp connection, connection cross section: AWG 27- 24, cable outlet: straight, color: black, Ethernet

### 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



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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

### 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



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### 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

### 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>)



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## 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

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

1657407

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



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

### WIREFOX 4 - Stripping tool

1212156

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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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### WIREFOX-E 4 - Stripping tool

1212704

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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

### 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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