

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

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Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on free cable end, cable length: 15 m



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 900113 |
| GTIN                                 | 4017918900113   |
| Weight per Piece (excluding packing) | 1,028.000 g   |
| Custom tariff number                 | 85444290  |
| Country of origin                    | Poland  |

### Technical data

#### Dimensions

|  |       |
|--|-------|
| Length of cable                            | 15 m  |
| Stripping length of the free conductor end | 50 mm |

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -25 °C ... 90 °C (Plug / socket) |
| Degree of protection            | IP65                             |
|                                 | IP67                             |

#### General

|                       |  |
|-----------------------|--|
| Note                  | Further products with variable cable lengths can be found in the accessories section |
| Rated current at 40°C | 4 A  |
| Rated voltage         | 48 V AC  |

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Technical data

#### General

|                             |                                |
|-----------------------------|--------------------------------|
|                             | 60 V DC                        |
| Number of positions         | 2                              |
| Insulation resistance       | ≥ 100 MΩ                       |
| Coding                      | B - inverse                    |
| Signal type/category        | PROFIBUS, 12 Mbps (max. 100 m) |
| Status display              | No                             |
| Overvoltage category        | II                             |
| Degree of pollution         | 3                              |
| Insertion/withdrawal cycles | ≥ 100                          |
| Torque                      | 0.4 Nm (M12 connector)         |

#### Material

|                          |   |
|--------------------------|---|
| Contact material         | CuSn  |
| Contact surface material | Ni/Au                                       |
| Contact carrier material | PA 6.6                                      |
| Material of grip body    | TPU, hardly inflammable, self-extinguishing |
| Material, knurls         | Zinc die-cast, nickel-plated                |

#### Pin assignment

|   |                         |
|---|-------------------------|
| Contact   Color (signal designation)   Contact (optional) | 2 (Plug)   GN (A cable) |
|   | 4 (Plug)   RD (B cable) |

#### Cable

|   |  |
|---|--|
| Cable type                                    | PROFIBUS   |
| Cable type (abbreviation)                     | 910  |
| UL AWM style                                  | 21198 (80°C/300 V)   |
| Cable structure                               | 1x2xAWG24/19   |
| Conductor cross section                       | 2x 0.25 mm <sup>2</sup> (Signal line)                      |
| AWG signal line                               | 24   |
| Conductor structure signal line               | 19x 0.13 mm  |
| Core diameter including insulation            | 2.55 mm ±0.07 mm   |
| Wire colors                                   | Red, green   |
| Overall twist                                 | 2 cores with 2 fillers to the core                         |
| Shielding                                     | Plastic-coated aluminum foil, tinned copper braided shield |
| Optical shield covering                       | 85 %   |
| External sheath, color                        | violet RAL 4001  |
| External cable diameter D                     | 7.8 mm ±0.2 mm   |
| Smallest bending radius, fixed installation   | 40 mm  |
| Smallest bending radius, movable installation | 65 mm  |

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### Technical data

#### Cable

|                                 |   |
|---------------------------------|---|
| Number of bending cycles        | 4000000   |
| Bending radius                  | 65 mm   |
| Traversing path                 | 4.5 m   |
| Traversing rate                 | 3 m/s   |
| Acceleration                    | 3 m/s <sup>2</sup>                              |
| Number of bending cycles        | 5000000   |
| Bending radius                  | 80 mm   |
| Traversing path                 | 4.5 m   |
| Traversing rate                 | 3 m/s   |
| Acceleration                    | 3 m/s <sup>2</sup>                              |
| Cable weight                    | 90 kg/km  |
| Outer sheath, material          | PUR   |
| Material, filler                | PP  |
| Material conductor insulation   | Foam-Skin PP                                    |
| Conductor material              | Tin-plated Cu litz wires                        |
| Insulation resistance           | ≥ 5 GΩ*km                                       |
| Conductor resistance            | ≤ 78.6 Ω/km                                     |
| Cable capacity                  | nom. 30 pF/m                                    |
| Wave impedance                  | 150 Ω ±10 % (3 MHz ... 20 MHz)                  |
| Attenuation                     | ≤ 0.049 dB/m (at 16 MHz)                        |
| Nominal voltage, cable          | 30 V  |
| Test voltage Core/Core          | 1500 V (50 Hz, 1 min.)                          |
| Test voltage Core/Shield        | 1500 V (50 Hz, 1 min.)                          |
| Flame resistance                | UL 1581, Sec. 1060 (FT-1)                       |
|                                 | IEC 60332-1-2                                   |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815        |
|                                 | according to IEC 60754-1                        |
| Other resistance                | Low adhesion                                    |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)    |
|                                 | -30 °C ... 80 °C (cable, flexible installation) |
|                                 | ≤ 70 °C (cable, drag chain applications)        |

#### Environmental Product Compliance

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

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27060306 |
| eCl@ss 4.1 | 27060306 |
| eCl@ss 5.0 | 27061801 |
| eCl@ss 5.1 | 27061800 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060308 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000830 |
| ETIM 3.0 | EC001855 |
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC002599 |
| ETIM 6.0 | EC000830 |
| ETIM 7.0 | EC003249 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

### Approvals

#### Approvals

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Approvals

EAC / EAC

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Ex Approvals

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#### Approval details

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Approvals

|     |   |               |
|-----|---|---------------|
| EAC |  | EAC-Zulassung |
|-----|---|---------------|

|     |   |                          |
|-----|---|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00286 |
|-----|---|--------------------------|

### Accessories

#### Accessories

#### Circular connector (cable-side)

Bus system connector - SACC-M12FSB-2PL SH PB - 1424680



Bus system connector, PROFIBUS DP (12 Mbps), 2-position, shielded, Socket straight M12, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Bus system connector - SACC-M12MSB-2PL SH PB - 1424678



Bus system connector, PROFIBUS DP (12 Mbps), 2-position, shielded, Plug straight M12, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Bus system connector - SACC-M12FRB-2PL SH PB - 1424681



Bus system connector, PROFIBUS DP (12 Mbps), 2-position, shielded, Socket angled M12, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Accessories

Bus system connector - SACC-M12MRB-2PL SH PB - 1424679



Bus system connector, PROFIBUS DP (12 Mbps), 2-position, shielded, Plug angled M12, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

Bus system connector - SACC-FSB-2QO SH PB SCO - 1413932



Bus system connector, PROFIBUS DP (12 Mbps), 2-position, halogen-free, shielded, Socket straight M12 SPEEDCON, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Bus system connector - SACC-MSB-2QO SH PB SCO - 1413931



Bus system connector, PROFIBUS DP (12 Mbps), 2-position, halogen-free, shielded, Plug straight M12 SPEEDCON, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Bus system connector - SACC-M12FSB-5CON-PG9 SH AU - 1507777



Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket straight M12, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm

Bus system connector - SACC-M12MSB-5CON-PG9 SH AU - 1507764



Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug straight M12, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6.5 mm ... 8.5 mm

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Accessories

Bus system connector - SACC-M12FRB-5CON-PG 9-SH - 1430420



Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Socket angled M12, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

Bus system connector - SACC-M12MRB-5CON-PG 9-SH - 1430417



Bus system connector, PROFIBUS, INTERBUS, 5-position, shielded, Plug angled M12, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

### Corrugated pipe

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



Polyamide protective hose, inflammability class V0, UV resistant

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



Polyamide protective hose, inflammability class HB, UV resistant

### Cutting tools

Cable-cutting tool - CUTFOX 12 - 1212128



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

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Accessories

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Diagonal cutter - CUTFOX-S VDE - 1212207



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

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### Data cable preassembled

Bus system cable - SAC-2P-M12MSB/910/... - 1538047



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on free cable end, cable length: Free input (0.2 ... 40.0 m)

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Bus system cable - SAC-2P-M12MSB-M12FSB/910/... - 1538089



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, Plug straight M12, B-coded, on Socket straight M12, B-coded, cable length: Free input (0.2 ... 40.0 m)

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Bus system cable - SAC-2P-M12FSB/910/... - 1538063



Bus system cable, PROFIBUS (12 Mbps), 2-position, PUR halogen-free, violet RAL 4001, shielded, free cable end, on Socket straight M12, B-coded, cable length: Free input (0.2 ... 40.0 m)

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### Electronics pliers

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Accessories

Diagonal cutter - MICROFOX-SP-1 - 1212487



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

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### Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

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



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### Safety locking

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

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



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

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Accessories

Tool - SAC BIT M12-D15 - 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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### Stripping tool

Stripping tool - WIREFOX 4 - 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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Stripping tool - WIREFOX-E 4 - 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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Stripping tool - WIREFOX 10 - 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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### T-distributor

T distributor - SAC-5PT-FB/2XMB PBDP SH - 1424711



T distributor, PROFIBUS DP (12 Mbps), 5-position, shielded, Socket straight M12, B-coded, on Plug straight M12, B-coded and Plug straight M12, B-coded

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Accessories

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T distributor - SAC-5PT-FB/MB-MBF PBDP SH - 1424713



T distributor, PROFIBUS DP (12 Mbps), 5-position, shielded, Socket straight M12, B-coded, on Plug straight M12, B-coded and Plug straight M12, B-coded, Thread M12 plug input not rotatable

### Terminal resistor

Termination resistor - SAC-5P-M12MS PB TR - 1507803



Terminating resistor PROFIBUS M12

### Torque tool

Torque screwdriver - TSD 04 SAC - 1208429



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

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



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

## Bus system cable - SAC-2P-M12MSB/15,0-910 - 1507272

### Accessories

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



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

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



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

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