

Connector - SACC-MS-8QO-0,5 SH SCO - 1414610

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Connector, Universal, 8-position, halogen-free, shielded, Plug straight M12 SPEEDCON, Coding: A, Insulation displacement connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 5 mm ... 9.7 mm

Your advantages

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Save time, thanks to installation with SPEEDCON fast locking system
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 055626 029573 |
| GTIN | 4055626029573 |

Technical data

Dimensions

| | |
|--------------------------------|-----------------|
| Wrench size, union nut | 15 mm |
| Diameter housing | 19 mm |
| Length | 58 mm |
| External cable diameter | 5 mm ... 9.7 mm |
| Stripping length of the sheath | ≥ 80 mm |

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Ambient temperature (assembly) | -5 °C ... 50 °C |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |
| Degree of protection | IP65 |
| | IP67 |

General

| | |
|------|--|
| Note | NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending |
|------|--|

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Technical data

General

| | |
|---|--|
| | forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
| Rated current at 40°C | 2 A |
| Rated voltage | 30 V AC |
| | 30 V DC |
| Number of positions | 8 |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector according to IEC 61076-2-101 |
| Signal type/category | Universal |
| Status display | No |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Connection method | Insulation displacement connection |
| Conductor cross section | 0.14 mm ² ... 0.5 mm ² (flexible) |
| | 0.14 mm ² ... 0.5 mm ² (solid) |
| Conductor cross section AWG | 26 ... 20 (flexible) |
| | 26 ... 20 (solid) |
| Wire diameter including insulation | 0.75 mm ... 2 mm |
| Frequency of connections between conductors of the same cross section | 10 |
| Wire insulation material | PVC / PE / PP / rubber |
| Structure of individual litz in acc. with VDE 0295 / smallest wire diameter | Class 2-6 |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 5 Nm (Pressure nut) |

Material

| | |
|--|--|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| Material of grip body | Zinc die-cast, nickel-plated |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |
| Standards/regulations | PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

Standards and Regulations

| | |
|--------------------------|--|
| Standards/specifications | M12 connector according to IEC 61076-2-101 |
| Standards/regulations | PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|------------|---|

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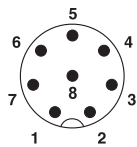
Technical data

Environmental Product Compliance

| | |
|--|--|
| | No hazardous substances above threshold values |
|--|--|

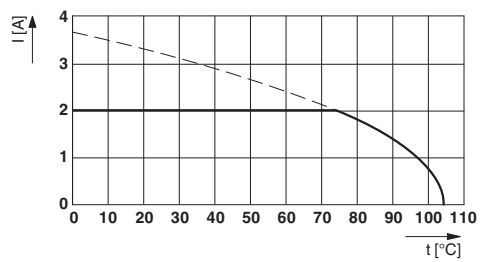
Drawings

Schematic diagram

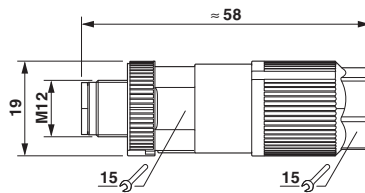


Pin assignment of M12 plug, 8-pos., A-coded, view of plug side

Diagram

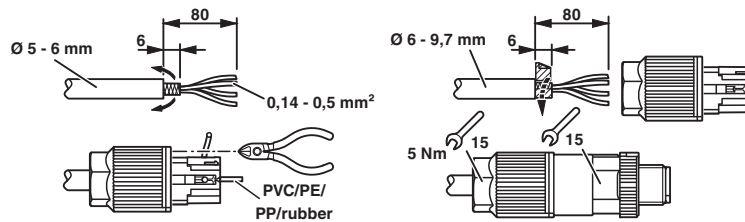


Dimensional drawing



Plug, M12 x 1, straight, shielded

Functional drawing



Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 11.0 | 27440102 |
| eCl@ss 4.0 | 27140800 |
| eCl@ss 4.1 | 27140800 |
| eCl@ss 5.0 | 27143400 |
| eCl@ss 5.1 | 27143400 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27440104 |

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Classifications

eCl@ss

| | |
|------------|----------|
| eCl@ss 9.0 | 27440102 |
|------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 6.0 | EC002062 |
| ETIM 7.0 | EC002635 |

UNSPSC

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|-------------|----------|
| UNSPSC 13.2 | 39121413 |
| UNSPSC 18.0 | 39121413 |
| UNSPSC 19.0 | 39121413 |
| UNSPSC 20.0 | 39121413 |
| UNSPSC 21.0 | 39121413 |

Approvals

Approvals

Approvals

EAC / EAC

Ex Approvals

Approval details

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

| | | |
|-----|--|--------------------------|
| EAC | | RU C- DE.BL08.B.00511 |
|-----|--|--------------------------|

Accessories

Accessories

Electronics pliers

Connector - SACC-MS-8QO-0,5 SH SCO - 1414610

Accessories

Diagonal cutter - MICROFOX-SP-1 - 1212487



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

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



Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445



Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

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

Stripping tool

Stripping tool - WIREFOX-D 40 - 1212161



Stripping tool, for stripping cables of 4.5 mm - 40 mm-Ø, insulation thickness of up to 4.5 mm, pivoting blade for round, lengthwise, and spiral cuts

Torque tool

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Accessories

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

Shielding foil - VS-08-RJ45-FOLIEN-SET - 1417184

Shielding foil set, 25 pieces, replacement for RJ45 and M12 Quickon connector



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

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



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