# Sensor/Actuator cable - SAC-HZ-3P-MR/1,5-542/ FSSHSCOBK - 1409517

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Sensor/Actuator cable, 3-position, PVC, yellow RAL 1021, shielded, Plug angled M12 SPEEDCON, A-coded, on Socket straight M12 SPEEDCON, A-coded, Cable length: 1.5 m

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 STK |
| Minimum order quantity | 10 STK |
| GTIN | 4 055626 017716 |
| Weight per Piece (excluding packing) | 22.22 g |
| Weight per piece (including packing) | 22.22 g |
| Country of origin | United States |
| Note | Made to Order (non-returnable) |

## Technical data

### Dimensions

| | |
|---|---|
| Length of cable | 1.5 m |

### Ambient conditions

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

### General

| | |
|---|---|
| Note | These cable assemblies are UL/cUL listed for use in Class I, Division 2 (CID2) hazardous locations. |
| Number of positions | 3 |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| Status display | No |
| Protective circuit/component | Unwired |

# Sensor/Actuator cable - SAC-HZ-3P-MR/1,5-542/ FSSHSCOBK - 1409517

## Technical data

### General

| | |
|---|---|
| Overvoltage category | II |
| Degree of pollution | 3 |
| Torque | 0.4 Nm (M12 connector) |

### Material

| | |
|---|---|
| Flammability rating according to UL 94 | HB |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |

### Standards and Regulations

| | |
|---|---|
| Standard designation | M12 connector |
| Standards/regulations | IEC 61076-2-101 |
| Flammability rating according to UL 94 | HB |
| UL, USA/Canada | Class I, Div. 2, Groups A, B, C, D |

### Cable

| | |
|---|---|
| Cable type | PVC yellow 105 °C |
| Cable type (abbreviation) | 542 |
| UL AWM style | 2517 (105°C/300 V) |
| AWG signal line | 22 |
| Core diameter including insulation | 1.27 mm ±0.03 mm |
| Wire colors | brown, blue, black |
| Overall twist | 3 wires, twisted |
| Shielding | Tinned copper braided shield |
| Optical shield covering | 85 % |
| External sheath, color | yellow |
| External cable diameter D | 5.2 mm ±0.2 mm |
| Minimum bending radius, flexible installation | 12 x D |
| Cable weight | 40 kg/km |
| Outer sheath, material | PVC |
| Material conductor insulation | PVC |
| Conductor material | Tin-plated Cu litz wires |
| Insulation resistance | ≥ () |
| Conductor resistance | max. 50.5 Ω/km (20° C) |
| Nominal voltage, cable | 300 V |
| Special properties | UL standards PLTC and ITC |
| Other resistance | UV resistant |

# Sensor/Actuator cable - SAC-HZ-3P-MR/1,5-542/ FSSHSCOBK - 1409517

## Technical data

### Cable

| | |
|---|---|
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed installation) |

## Classifications

### eCl@ss

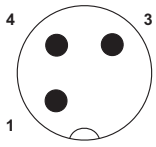
| | |
|---|---|
| eCl@ss 5.1 | 27061801 |
| eCl@ss 6.0 | 27061801 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |

### ETIM

| | |
|---|---|
| ETIM 4.0 | EC001855 |
| ETIM 5.0 | EC001855 |

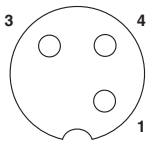
## Drawings

Schematic diagram



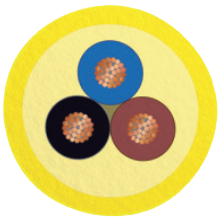

Pin assignment M12 plug, 3-pos., A-coded, view male side

Schematic diagram



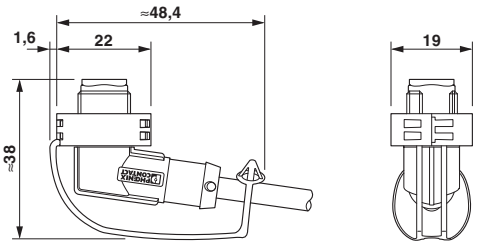

Pin assignment M12 socket, 3-pos., A-coded, view female side

Cable cross section



PVC yellow 105 °C [542]

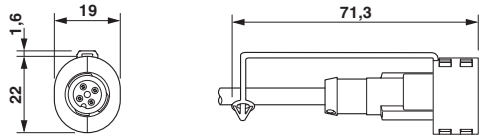
Dimensional drawing




EXCLIP mounted plug

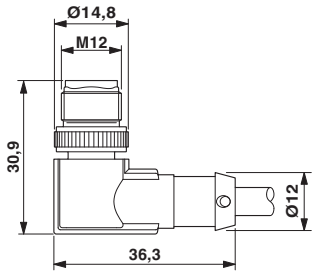
# Sensor/Actuator cable - SAC-HZ-3P-MR/1,5-542/ FSSHSCOBK - 1409517

Dimensional drawing



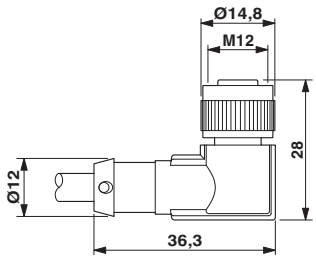

EXCLIP mounted socket

Dimensional drawing



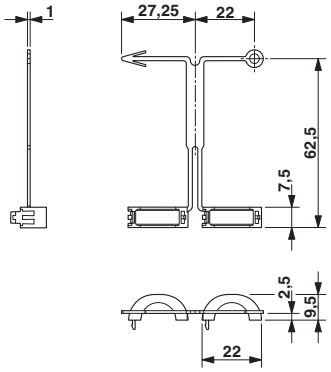

M12 x 1 male plug, angled, shielded

Dimensional drawing



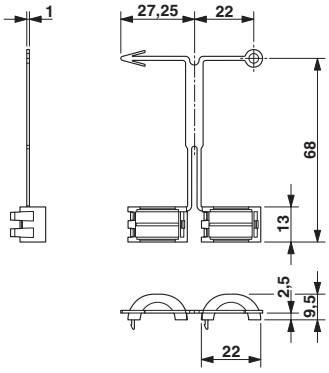

M12 x 1 socket, angled, shielded

Dimensional drawing



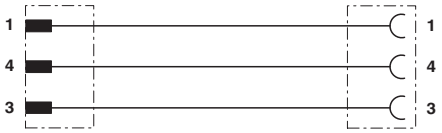

EXCLIP plug

Dimensional drawing




EXCLIP socket

Circuit diagram




Contact assignment of M8 plugs / M12 sockets

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