

SAC-HZ-5P-5,0-542/FR SH SCO BK - Sensor/actuator cable



1409596  
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Sensor/actuator cable, 5-position, PVC, yellow, shielded (Tinned copper braided shield), free cable end, on Socket angled M12, coding: A, cable length: 5 m



Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1409596                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF13                           |
| Product key                          | BF1IGC                         |
| GTIN                                 | 4055626018522                  |
| Weight per piece (including packing) | 319 g                          |
| Weight per piece (excluding packing) | 319 g                          |
| Customs tariff number                | 85444290                       |
| Country of origin                    | US                             |

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## Technical data

### Notes

|         |                                                                                                     |
|---------|-----------------------------------------------------------------------------------------------------|
| General | These cable assemblies are UL/cUL listed for use in Class I, Division 2 (CID2) hazardous locations. |
|---------|-----------------------------------------------------------------------------------------------------|

### Product properties

|                      |                                     |
|----------------------|-------------------------------------|
| Product type         | Sensor/actuator cable               |
| Application          | U.S. cables for hazardous locations |
| Number of positions  | 5                                   |
| No. of cable outlets | 1                                   |
| Shielded             | yes                                 |
| Coding               | A                                   |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Material specifications

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Flammability rating according to UL 94 | HB                                          |
| Seal material                          | NBR                                         |
| Material of grip body                  | TPU, hardly inflammable, self-extinguishing |
| Contact material                       | CuSn                                        |
| Contact surface material               | Ni/Au                                       |
| Contact carrier material               | TPU GF                                      |
| Material for screw connection          | Zinc die-cast, nickel-plated                |
| Outer sheath, material                 | PVC                                         |

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 48 V AC                    |
|                       | 60 V DC                    |
| Nominal current $I_N$ | 4 A                        |

### Signaling

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

### Connection data

#### Conductor connection

|                   |                        |
|-------------------|------------------------|
| Tightening torque | 0.4 Nm (M12 connector) |
|-------------------|------------------------|

### Connector

#### Connection 1

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

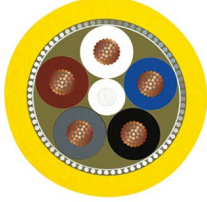
## Connection 2

|                     |                   |
|---------------------|-------------------|
| Type                | Socket angled M12 |
| Number of positions | 5                 |
| Coding type         | A                 |

## Cable/line

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

## PVC yellow 105 °C [542]

|                                               |                                                                                     |
|-----------------------------------------------|-------------------------------------------------------------------------------------|
| Dimensional drawing                           |  |
| Cable weight                                  | 57 kg/km                                                                            |
| UL AWM Style                                  | 2517 (105 °C / 300 V)                                                               |
| Number of positions                           | 5                                                                                   |
| Shielded                                      | yes                                                                                 |
| Cable type                                    | PVC yellow 105 °C [542]                                                             |
| Conductor structure signal line               | 30x 1.30 mm                                                                         |
| AWG signal line                               | 22                                                                                  |
| Wire diameter incl. insulation                | 1.27 mm ±0.03 mm                                                                    |
| External cable diameter                       | 5.90 mm ±0.2 mm                                                                     |
| Outer sheath, material                        | PVC                                                                                 |
| External sheath, color                        | yellow                                                                              |
| Conductor material                            | Tin-plated Cu litz wires                                                            |
| Material, filler                              | PP                                                                                  |
| Material wire insulation                      | PVC                                                                                 |
| Single wire, color                            | brown, blue, black, white, gray                                                     |
| Overall twist                                 | 5 wires around filler to the core                                                   |
| Optical shield covering                       | 85 %                                                                                |
| Max. conductor resistance                     | max. 50.5 Ω/km (20 °C)                                                              |
| Insulation resistance                         | ≥ (550 M Ohms/m @ 500V)                                                             |
| Nominal voltage, cable                        | 300 V                                                                               |
| Minimum bending radius, flexible installation | 12 x D                                                                              |
| Smallest bending radius, movable installation | 71 mm                                                                               |
| Flame resistance                              | FT4                                                                                 |
| Other resistance                              | UV resistant                                                                        |
| Special properties                            | UL standards PLTC and ITC                                                           |
| Ambient temperature (operation)               | -30 °C ... 105 °C (cable, fixed installation)                                       |

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|  |                                                 |
|--|-------------------------------------------------|
|  | -5 °C ... 105 °C (Cable, flexible installation) |
|--|-------------------------------------------------|

## Environmental and real-life conditions

### Ambient conditions

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

## Approvals

### Conformity/Approvals

|                  |                                    |
|------------------|------------------------------------|
| UL, USA / Canada | Class I, Div. 2, Groups A, B, C, D |
|------------------|------------------------------------|

## Standards and regulations

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

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