

# SACC-DSI-M8FS-6CON-M10/0,5 - Device connector rear mounting



1456103

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Device connector rear mounting, 6-position, Socket, straight, M8, A-coding, on free cable end, Individual wires, cable length: 0.5 m, 0.14 mm<sup>2</sup>, PVC litz wire

## Your advantages

- Preassembled with litz wires for immediate use
- Customer-specific assemblies and litz wire lengths available
- Sealed on the litz wire side for optimum leak-tightness
- Standard pin assignments and codings for signal transmission with a uniform design-in design

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1456103       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB22          |
| Product key                          | ABQIDB        |
| GTIN                                 | 4046356605885 |
| Weight per piece (including packing) | 15.6 g        |
| Weight per piece (excluding packing) | 10.5 g        |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Mounting

|                   |                                     |
|-------------------|-------------------------------------|
| Mounting type     | Rear mounting (M10, with flat nut)  |
| Tightening torque | 1 Nm ... 1.5 Nm (Installation-side) |

### Product properties

|                      |                                   |
|----------------------|-----------------------------------|
| Product type         | Circular connectors (device side) |
| Application          | Data                              |
| Number of positions  | 6                                 |
| No. of cable outlets | 1                                 |
| Shielded             | no                                |
| Coding               | A                                 |
| Thread type          | M8                                |

### Insulation characteristics

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

### Material specifications

|                                        |                          |
|----------------------------------------|--------------------------|
| Material Housing                       | GD-Zn                    |
| Material Housing surface               | Ni                       |
| Flammability rating according to UL 94 | HB                       |
| Seal material                          | Viton                    |
| Contact material                       | Cu alloy                 |
| Contact surface material               | Au                       |
| Contact carrier material               | PUR/PA 6.6               |
| Conductor material                     | Tin-plated Cu litz wires |

### Electrical properties

|                           |                            |
|---------------------------|----------------------------|
| Rated surge voltage       | 0.8 kV                     |
| Contact resistance        | $\leq 3 \text{ m}\Omega$   |
| Insulation resistance     | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$     | 30 V AC                    |
|                           | 30 V DC                    |
| Nominal current $I_N$     | 1.5 A                      |
| Max. conductor resistance | 80 $\Omega/\text{km}$      |

### Connection data

#### Conductor connection

|                         |                  |
|-------------------------|------------------|
| Connection method       | Individual wires |
| Contact connection type | Socket           |

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|                         |                                     |
|-------------------------|-------------------------------------|
| Conductor cross-section | 0.14 mm <sup>2</sup>                |
| Tightening torque       | 1 Nm ... 1.5 Nm (Installation-side) |

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Socket   |
| Head cable outlet | straight |
| Head thread type  | M8       |
| Coding            | A        |

### Connection 2

|             |                |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

## Cable/line

|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| Cable length                    | 0.5 m                                                              |
| Cable type                      | PVC litz wire                                                      |
| Wire diameter incl. insulation  | 1.3 mm ±0.1 mm                                                     |
| Single wire, color              | black, brown, blue, white, gray, pink                              |
| Cable cross section             | 0.14 mm <sup>2</sup>                                               |
| Conductor material              | Tin-plated Cu litz wires                                           |
| Conductor structure signal line | 7x 0.16 mm                                                         |
| AWG signal line                 | 26                                                                 |
| Material wire insulation        | PVC / UL                                                           |
| Thickness, insulation           | 0.38 mm                                                            |
| Nominal voltage, cable          | 300 V                                                              |
| Test voltage, cable             | 2000 V AC                                                          |
| Cable resistance                | ≥ 80 Ω/km                                                          |
| Cable insulation resistance     | ≥ 20 MΩ*km                                                         |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation)<br>-10 °C ... 105 °C |

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                               |
|-------------------------------------------------------------------|-----------------------------------------------|
| Degree of protection                                              | IP67                                          |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Socket)                     |
| Ambient temperature (operation) (Cable, fixed installation)       | -40 °C ... 105 °C (cable, fixed installation) |
| Ambient temperature (operation) (Cable, flexible installation)    | -10 °C ... 105 °C                             |

## Standards and regulations

|                          |                              |
|--------------------------|------------------------------|
| Standard designation     | M8 circular connector        |
| Standards/specifications | according to IEC 61076-2-104 |

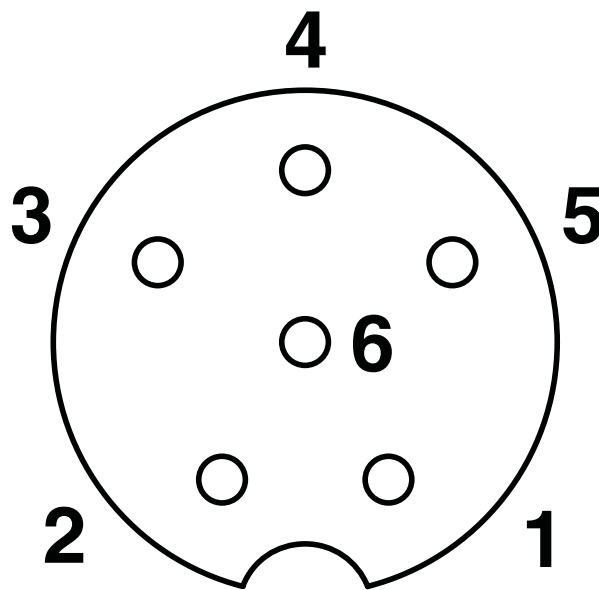
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## Drawings

Schematic diagram



Pin assignment M8 socket, 6-pos.

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## Approvals

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|  <b>cUL Recognized</b><br>Approval ID: E221474-20070307 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                    |                       |                       |                   |                             |
|                                                                                                                                          | 30 V                  | 1.5 A                 | 26                | -                           |

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| keine                                                                                                                                   |                       |                       |                   |                             |
|                                                                                                                                         | 30 V                  | 1.5 A                 | 26                | -                           |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440103 |
| ECLASS-15.0 | 27440103 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003570 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|                                         |      |
|-----------------------------------------|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|                                        |                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-50                                                                                                                                                                                                                           |
|                                        | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 531b772b-37d6-4975-9996-4ef1a6fb4c21 |

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