

# SAC-8P-M12MS/10,0-940/M12FS - Bus system cable



1554034

<https://www.phoenixcontact.com/nl/products/1554034>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Bus system cable, Ethernet CAT5 (1 Gbps), 8-position, PUR halogen-free, water blue RAL 5021, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 10 m

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1554034                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | AF1CMI                         |
| Product key                          | AF1CMI                         |
| GTIN                                 | 4046356161879                  |
| Weight per piece (including packing) | 507,1 g                        |
| Weight per piece (excluding packing) | 489,7 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | DE                             |

# SAC-8P-M12MS/10,0-940/M12FS - Bus system cable



1554034

<https://www.phoenixcontact.com/nl/products/1554034>

## Technical data

### Product properties

|                      |          |
|----------------------|----------|
| Application          | Standard |
| Sensor type          | Ethernet |
| Number of positions  | 8        |
| No. of cable outlets | 1        |
| Shielded             | yes      |
| Coding               | A        |

### Insulation characteristics

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

### Interfaces

|                      |                                   |
|----------------------|-----------------------------------|
| Signal type/category | Ethernet CAT5 (IEC 11801), 1 Gbps |
|----------------------|-----------------------------------|

### Signaling

|                        |    |
|------------------------|----|
| Status display         | no |
| Status display present | no |

### Electrical properties

|                                         |                            |
|-----------------------------------------|----------------------------|
| Insulation resistance                   | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$                   | 30 V AC                    |
|                                         | 30 V DC                    |
| Nominal current $I_N$                   | 2 A                        |
| Transmission medium                     | Copper                     |
| Transmission speed                      | 1 Gbps                     |
| Transmission characteristics (category) | CAT5 (IEC 11801:2002)      |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Material specifications

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

### Connector

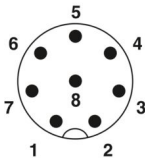
# SAC-8P-M12MS/10,0-940/M12FS - Bus system cable



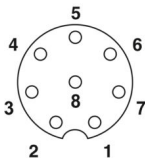
1554034

<https://www.phoenixcontact.com/nl/products/1554034>

## Connection 1

|                                        |                                                                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing                    |  <p>Pin assignment M12 plug, 8-pos., A-coded, view plug side</p> |
| Type                                   | M12 Plug, angled, 8-position, shielded (Advanced Shielding Technology), Keying: A                                                                  |
| Number of positions                    | 8                                                                                                                                                  |
| Shielded                               | yes                                                                                                                                                |
| Shielding                              | Advanced Shielding Technology                                                                                                                      |
| Signal type/category                   | Ethernet CAT5, 1 bps                                                                                                                               |
| Insertion/withdrawal cycles            | ≥ 100                                                                                                                                              |
| Insulation resistance                  | ≥ 100 Ω                                                                                                                                            |
| Overvoltage category                   | II                                                                                                                                                 |
| Degree of pollution                    | 3                                                                                                                                                  |
| Tightening torque                      | 0.4 Nm (M12 connector)                                                                                                                             |
| Material Contact                       | CuZn                                                                                                                                               |
| Material Contact surface               | Ni/Au                                                                                                                                              |
| Material Contact carrier               | PA 6.6                                                                                                                                             |
| Material Screw connection              | Die-cast zinc, nickel-plated                                                                                                                       |
| Material Grip body                     | TPU, hardly inflammable, self-extinguishing                                                                                                        |
| Material Seal                          | FKM                                                                                                                                                |
| Flammability rating according to UL 94 | V0                                                                                                                                                 |
| Ambient temperature (operation)        | -25 °C ... 85 °C                                                                                                                                   |
| Standard designation                   | M12 connector                                                                                                                                      |
| Standards/regulations                  | IEC 61076-2-101                                                                                                                                    |

## Connection 2

|                      |                                                                                                                                                          |
|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing  |  <p>Pin assignment M12 socket, 8-pos., A-coded, view female side</p> |
| Type                 | M12 Socket, angled, 8-position, shielded (Advanced Shielding Technology), Keying: A                                                                      |
| Number of positions  | 8                                                                                                                                                        |
| Shielded             | yes                                                                                                                                                      |
| Shielding            | Advanced Shielding Technology                                                                                                                            |
| Signal type/category | Ethernet CAT5, 1 bps                                                                                                                                     |

# SAC-8P-M12MS/10,0-940/M12FS - Bus system cable



1554034

<https://www.phoenixcontact.com/nl/products/1554034>

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Insertion/withdrawal cycles            | ≥ 100                                       |
| Insulation resistance                  | ≥ 100 Ω                                     |
| Overvoltage category                   | II                                          |
| Degree of pollution                    | 3                                           |
| Tightening torque                      | 0.4 Nm (M12 connector)                      |
| Material Contact                       | CuZn                                        |
| Material Contact surface               | Ni/Au                                       |
| Material Contact carrier               | PA 6.6                                      |
| Material Screw connection              | Die-cast zinc, nickel-plated                |
| Material Grip body                     | TPU, hardly inflammable, self-extinguishing |
| Material Seal                          | FKM                                         |
| Flammability rating according to UL 94 | V0                                          |
| Ambient temperature (operation)        | -25 °C ... 85 °C                            |
| Standard designation                   | M12 connector                               |
| Standards/regulations                  | IEC 61076-2-101                             |

## Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

### Ethernet flexible CAT5, 4-pair [94B]

|                                |                                                                                      |
|--------------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing            |  |
| UL AWM Style                   | 21238 (80 °C / 600 V)                                                                |
| Number of positions            | 8                                                                                    |
| Shielded                       | yes                                                                                  |
| Cable type                     | Ethernet flexible CAT5, 4-pair [94B]                                                 |
| Conductor structure            | 4x2xAWG26/7, SF/UTP                                                                  |
| AWG signal line                | 26                                                                                   |
| Conductor cross-section        | 4x 2x 0.14 mm²                                                                       |
| Wire diameter incl. insulation | 0.96 mm ±0.05 mm                                                                     |
| External cable diameter        | 6.40 mm ±0.2 mm                                                                      |
| Outer sheath, material         | PUR                                                                                  |
| External sheath, color         | water blue RAL 5021                                                                  |
| Conductor material             | Bare Cu litz wires                                                                   |
| Material wire insulation       | Foamed PE                                                                            |
| Single wire, color             | white/blue-blue, white/orange-orange, white/green-green, white/brown-brown           |
| Twisted pairs                  | 2 cores to the pair                                                                  |

# SAC-8P-M12MS/10,0-940/M12FS - Bus system cable



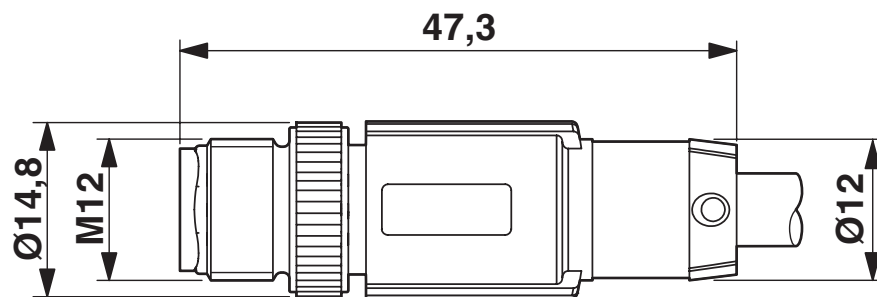
1554034

<https://www.phoenixcontact.com/nl/products/1554034>

|                                               |                                                        |
|-----------------------------------------------|--------------------------------------------------------|
| Overall twist                                 | 4 pairs for core                                       |
| Optical shield covering                       | 70 %                                                   |
| Insulation resistance                         | $\geq 500 \text{ M}\Omega \cdot \text{km}$             |
| Loop resistance                               | $\leq 290.00 \text{ }\Omega/\text{km}$                 |
| Wave impedance                                | $100 \text{ }\Omega \pm 5 \text{ }\Omega$ (at 100 MHz) |
| Nominal voltage, cable                        | $\leq 100 \text{ V}$                                   |
| Test voltage Core/Core                        | 2000 V (50 Hz, 1 min.)                                 |
| Test voltage Core/Shield                      | 2000.00 V (50 Hz, 1 min.)                              |
| Minimum bending radius, fixed installation    | 4 x D                                                  |
| Minimum bending radius, flexible installation | 8 x D                                                  |
| Smallest bending radius, fixed installation   | 26 mm                                                  |
| Smallest bending radius, movable installation | 51 mm                                                  |
| Halogen-free                                  | according to IEC 60754-1                               |
| Flame resistance                              | according to IEC 60332-1-2                             |
|                                               | according to CSA C 22.2 No. 210-FT1                    |
| Resistance to oil                             | in accordance with EN 60811-2-1                        |
| Ambient temperature (operation)               | -40 °C ... 80 °C (cable, fixed installation)           |
|                                               | -20 °C ... 80 °C (Cable, flexible installation)        |

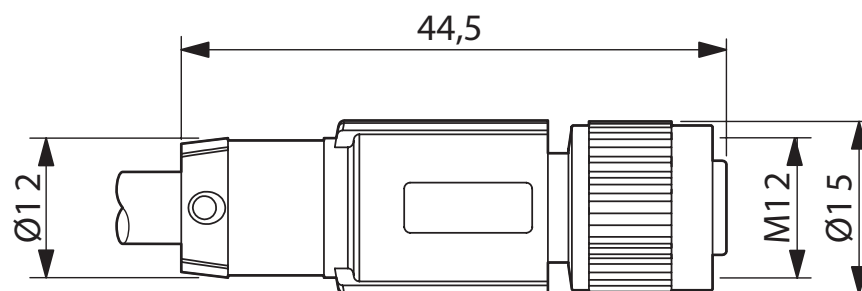
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing

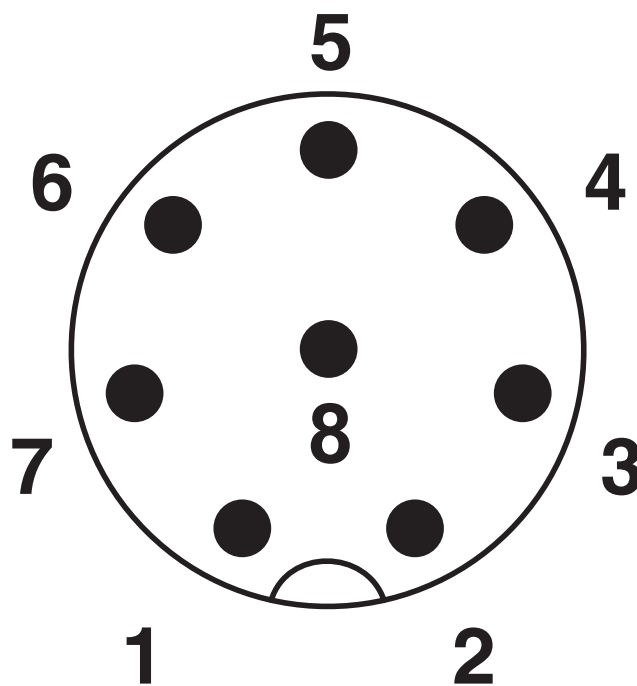


M12 x 1 socket, straight, shielded

1554034

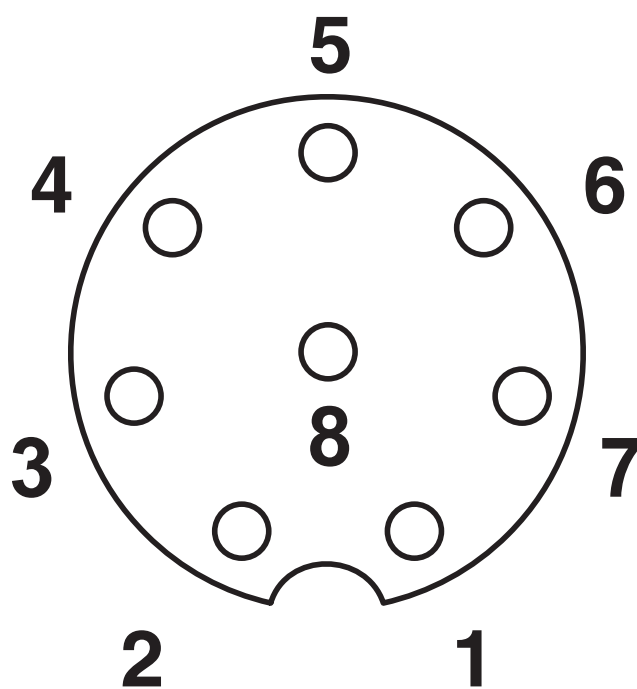
<https://www.phoenixcontact.com/nl/products/1554034>

Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

# SAC-8P-M12MS/10,0-940/M12FS - Bus system cable



1554034

<https://www.phoenixcontact.com/nl/products/1554034>

## Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1554034>



**EAC-RoHS**

Approval ID: RU D-DE.HB35.B.00387



# SAC-8P-M12MS/10,0-940/M12FS - Bus system cable



1554034

<https://www.phoenixcontact.com/nl/products/1554034>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

# SAC-8P-M12MS/10,0-940/M12FS - Bus system cable



1554034

<https://www.phoenixcontact.com/nl/products/1554034>

## Environmental product compliance

### EU RoHS

|                                         |                    |
|-----------------------------------------|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|-----------------------------------------|--------------------|

### China RoHS

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|                                        | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |              |
|---------|--------------|
| CO2e kg | 8,54 kg CO2e |
|---------|--------------|

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT B.V.  
Hengelder 56 6902 PA Zevenaar  
Postbus 246 6900 AE Zevenaar  
(0316) 59 17 20  
[sales@phoenixcontact.nl](mailto:sales@phoenixcontact.nl)