

SAC-4P- 3,0-600/M 8FR-2L FB - Sensor/actuator cable



1406855

<https://www.phoenixcontact.com/us/products/1406855>

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.



Sensor/actuator cable, 4-position, PP-EPDM halogen-free, gray RAL 7035, free cable end, on Socket angled M8, coding: A, with 2 LEDs, cable length: 3 m, Hygienic design, with plastic knurl

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Contamination can be detected quickly – thanks to the light color
- Convenient: increased machine availability thanks to quick and easy diagnostics

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1406855 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF01 |
| Product key | AF1BCA |
| GTIN | 4046356781770 |
| Weight per piece (including packing) | 78.88 g |
| Weight per piece (excluding packing) | 78.88 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

1406855

<https://www.phoenixcontact.com/us/products/1406855>

Technical data

Product properties

| | |
|----------------------|--------------------------|
| Product type | Sensor/actuator cable |
| Application | Food processing industry |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |

Material specifications

| | |
|-------------------------------|---------------|
| Seal material | FKM |
| Material of grip body | PP |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | PP |
| Material for screw connection | Polypropylene |

Electrical properties

| | |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 24 V DC |
| Nominal current I_N | 4 A |

Mechanical properties

Mechanical data

| | |
|-----------------------------|------------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|------------|

Signaling

| | |
|------------------------|--------|
| Status display | 2 LEDs |
| Status display present | yes |

Connection data

Conductor connection

| | |
|-------------------|------------------------|
| Tightening torque | 0.2 Nm (M8 connectors) |
|-------------------|------------------------|

Connector

Connection 1

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

Connection 2

| | |
|---------------------|------------------|
| Type | Socket angled M8 |
| Number of positions | 4 |
| Coding type | A |

SAC-4P- 3,0-600/M 8FR-2L FB - Sensor/actuator cable



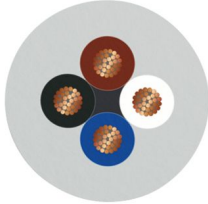
1406855

<https://www.phoenixcontact.com/us/products/1406855>

Cable/line

| | |
|--------------|-----|
| Cable length | 3 m |
|--------------|-----|

Halogen-free PP gray [600]

| | |
|---|--|
| Dimensional drawing |  |
| Cable weight | 23 kg/km |
| Number of positions | 4 |
| Shielded | no |
| Cable type | Halogen-free PP gray [600] |
| Conductor structure signal line | 32x 0.10 mm |
| AWG signal line | 24 |
| Conductor cross-section | 4x 0.25 mm ² (Signal line) |
| Wire diameter incl. insulation | 1.17 mm ±0.02 mm (Signal line) |
| External cable diameter | 4.50 mm ±0.15 mm |
| Outer sheath, material | PP-EPDM |
| External sheath, color | gray RAL 7035 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | brown, white, blue, black |
| Thickness, insulation | ≥ 0.21 mm (Core insulation) |
| Thickness, outer sheath | approx. 0.80 mm |
| Overall twist | 4 wires, twisted |
| Length of twist, overall twist | 44 mm |
| Max. conductor resistance | 78 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 1 GΩ*km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage | ≥ 3000 V AC (Spark test) |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 23 mm |
| Smallest bending radius, movable installation | 45 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 4000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ² |
| Dynamic load capacity (torsion) | Torsion: ±270 °/m, Torsion cycles: ≥4000000, Torsional frequency: max.25 Torsion cycles/min |
| Halogen-free | in accordance with DIN VDE 0472 part 815 |

SAC-4P- 3,0-600/M 8FR-2L FB - Sensor/actuator cable



1406855

<https://www.phoenixcontact.com/us/products/1406855>

| | |
|---------------------------------|---|
| | in accordance with DIN EN 50267-2-1 |
| Other resistance | Resistant to cold bending and cold impacts (according to DIN EN 60811-1-4 (-40 °C)) |
| Special properties | FDA compliant according to FDA 21 CFR 177.2600 |
| | highly flexible |
| | Flexible cable conduit capable |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) |
| | -25 °C ... 105 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|-----------------------------------|
| Degree of protection | IP65 |
| | IP67 |
| | IP68 |
| | IP69K |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 105 °C (Plug / socket) |

Standards and regulations

M8

| | |
|--------------------------|----------------------|
| Standard designation | M8 connector |
| Standards/specifications | IEC 61076-2-104 |
| Standard designation | Material conformance |
| Standards/specifications | FDA 21 CFR 177.2600 |

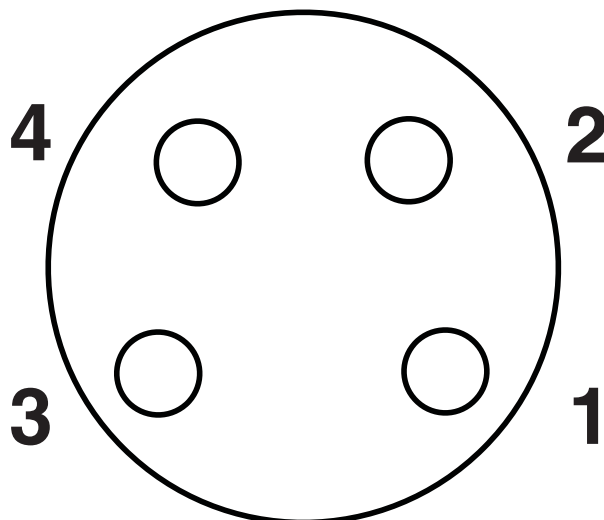
Drawings

Dimensional drawing



Socket M8 x 1, angled

Schematic diagram



Pin assignment M8 socket, 4-pos., view female side

SAC-4P- 3,0-600/M 8FR-2L FB - Sensor/actuator cable



1406855

<https://www.phoenixcontact.com/us/products/1406855>

Circuit diagram



Contact assignment of the M8 socket with LED

SAC-4P- 3,0-600/M 8FR-2L FB - Sensor/actuator cable



1406855

<https://www.phoenixcontact.com/us/products/1406855>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1406855>



EAC-RoHS

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

1406855

<https://www.phoenixcontact.com/us/products/1406855>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

ETIM

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

UNSPSC

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

1406855

<https://www.phoenixcontact.com/us/products/1406855>

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 | 0.933 kg CO2e |
|---------|---------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com