

## Sensor/actuator cable - SAC-3P-DTMS/ 5,0-PUR - 1415001


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Sensor/actuator cable, 3-position, PUR halogen-free, black-gray RAL 7021, Plug straight DEUTSCH DT04-3P  
Clip locking, on free cable end, cable length: 5 m



### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 1 pc  |
| GTIN         | <br>4 055626 036779 |
| GTIN         | 4055626036779   |

### Technical data

#### Dimensions

|                 |     |
|-----------------|-----|
| Length of cable | 5 m |
|-----------------|-----|

#### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Ambient temperature (operation) | -20 °C ... 80 °C (Plug / socket) |
| Degree of protection            | IP67                             |

#### General

|                              |                    |
|------------------------------|--------------------|
| Rated current at 40°C        | 8 A                |
| Rated voltage                | 48 V AC<br>48 V DC |
| Number of positions          | 3                  |
| Color handle area            | black              |
| Insulation resistance        | ≥ 100 MΩ           |
| Coding                       | A - standard       |
| Status display               | No                 |
| Protective circuit/component | unwired            |

#### Material

|  |    |
|--|----|
| Flammability rating according to UL 94 | V2 |
|--|----|

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## Technical data

### Material

|                          |               |
|--------------------------|---------------|
| Contact material         | Cu alloy      |
| Contact surface material | Nickel-plated |
| Contact carrier material | PA 6.6        |
| Material of grip body    | PA            |
| Material, knurls         | not available |
| Sealing material         | Silicon       |

### Standards and Regulations

|  |    |
|--|----|
| Flammability rating according to UL 94 | V2 |
|--|----|

### Cable

|   |                                       |
|---|---------------------------------------|
| Cable type                                    | PUR halogen-free black                |
| Cable type (abbreviation)                     | PUR                                   |
| Cable abbreviation                            | Li9Y11Y                               |
| UL AWM style                                  | 20549 / 10152 (80°C/300 V)            |
| Conductor cross section                       | 3x 0.75 mm <sup>2</sup> (Signal line) |
| AWG signal line                               | 18                                    |
| Conductor structure signal line               | 42x 0.15 mm                           |
| Core diameter including insulation            | 1.69 mm ±0.05 mm (Signal line)        |
| Thickness, insulation                         | ≥ 0.21 mm                             |
| Wire colors                                   | brown, blue, black                    |
| Overall twist                                 | 3 wires, twisted                      |
| External sheath, color                        | black-gray RAL 7021                   |
| Outer sheath thickness                        | ≥ 0.38 mm                             |
| External cable diameter D                     | 5.2 mm ±0.15 mm                       |
| Minimum bending radius, fixed installation    | 5 x D                                 |
| Minimum bending radius, flexible installation | 10 x D                                |
| Number of bending cycles                      | 4000000                               |
| Bending radius                                | 48 mm                                 |
| Traversing path                               | 10 m                                  |
| Traversing rate                               | 3 m/s                                 |
| Acceleration                                  | 10 m/s <sup>2</sup>                   |
| Cable weight                                  | 42 kg/km                              |
| Outer sheath, material                        | PUR                                   |
| Material conductor insulation                 | PP                                    |
| Conductor material                            | Bare Cu litz wires                    |
| Insulation resistance                         | ≥ 1 GΩ*km (at 20 °C)                  |
| Conductor resistance                          | ≤ 26 Ω/km (at 20 °C)                  |
| Nominal voltage, cable                        | ≤ 300 V AC                            |
| Test voltage, cable                           | ≥ 3000 V AC (Spark test)              |
| Special properties                            | flexible                              |
|   | Flexible cable conduit capable        |

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### Technical data

#### Cable

|                                 |  |
|---------------------------------|--|
| Flame resistance                | according to UL 758/1581 (horizontal)                      |
|                                 | in accordance with UL 758/1581 FT2                         |
|                                 | according to DIN EN 60332-2-2                              |
| Halogen-free                    | in accordance with DIN VDE 0472 part 815                   |
|                                 | in accordance with DIN EN 50267-2-1                        |
| Resistance to oil               | According to DIN EN 60811-2-1, 168 h at 100°C              |
|                                 | According to UL 758, 168 h at 60°C                         |
| Other resistance                | hydrolysis and microbe resistant                           |
|                                 | partly UV-resistant in accordance with DIN EN ISO 4892-2-A |
|                                 | Low adhesion   |
|                                 | abrasion-resistant   |
| Ambient temperature (operation) | -40 °C ... 80 °C (cable, fixed installation)               |
|                                 | -25 °C ... 80 °C (cable, flexible installation)            |

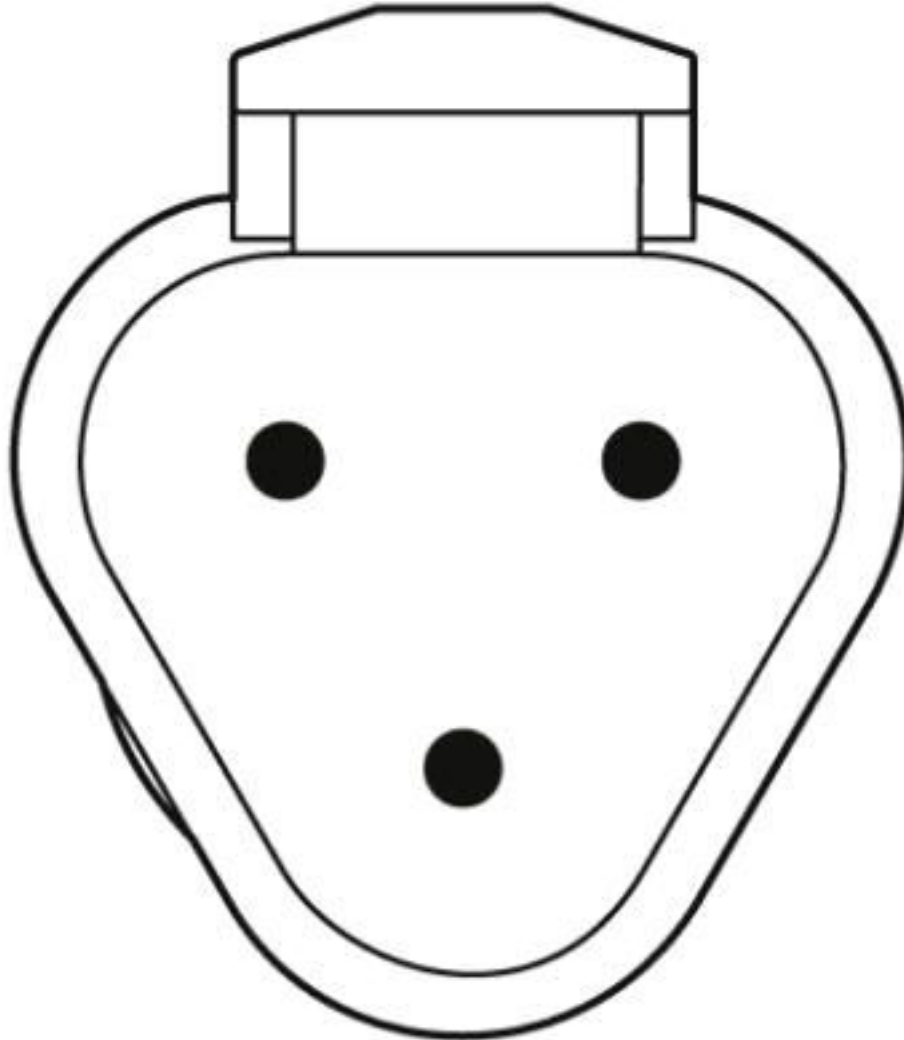
#### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

#### Drawings

## Sensor/actuator cable - SAC-3P-DTMS/ 5,0-PUR - 1415001

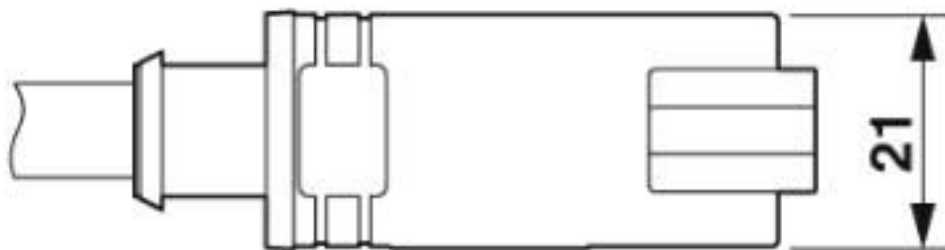
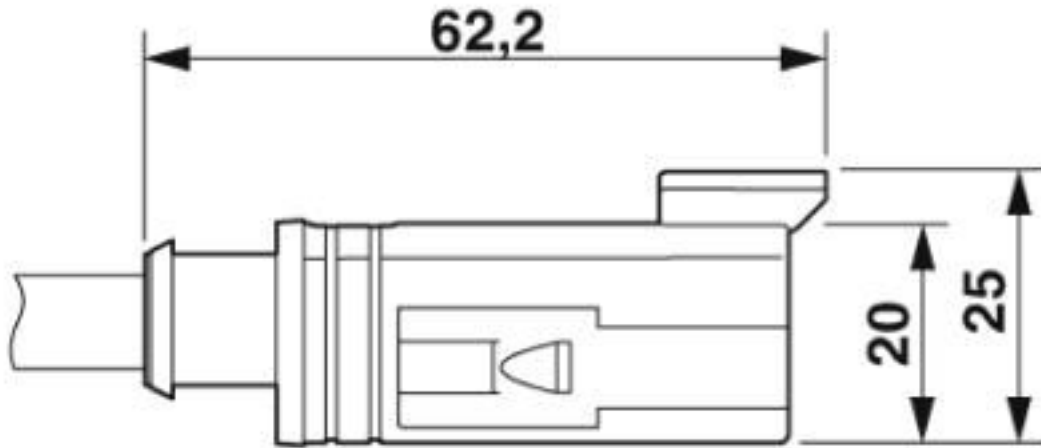
Schematic diagram



DEUTSCH DT04-3P pin assignment

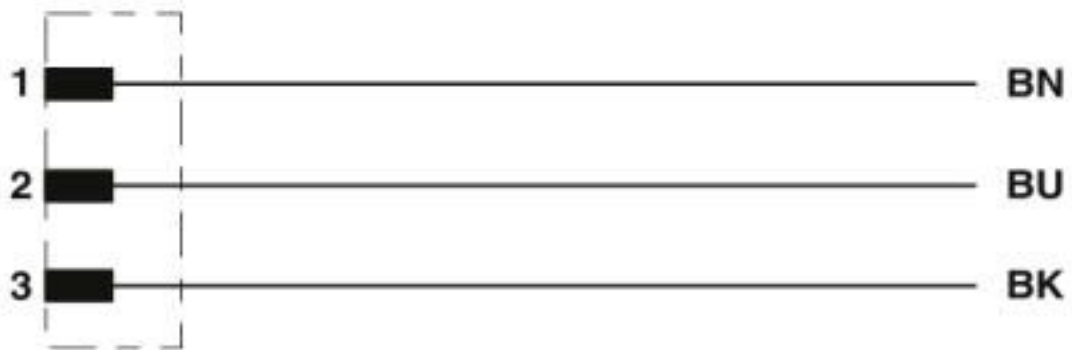
# Sensor/actuator cable - SAC-3P-DTMS/ 5,0-PUR - 1415001

Dimensional drawing



DEUTSCH DT04-3P, top view and side view

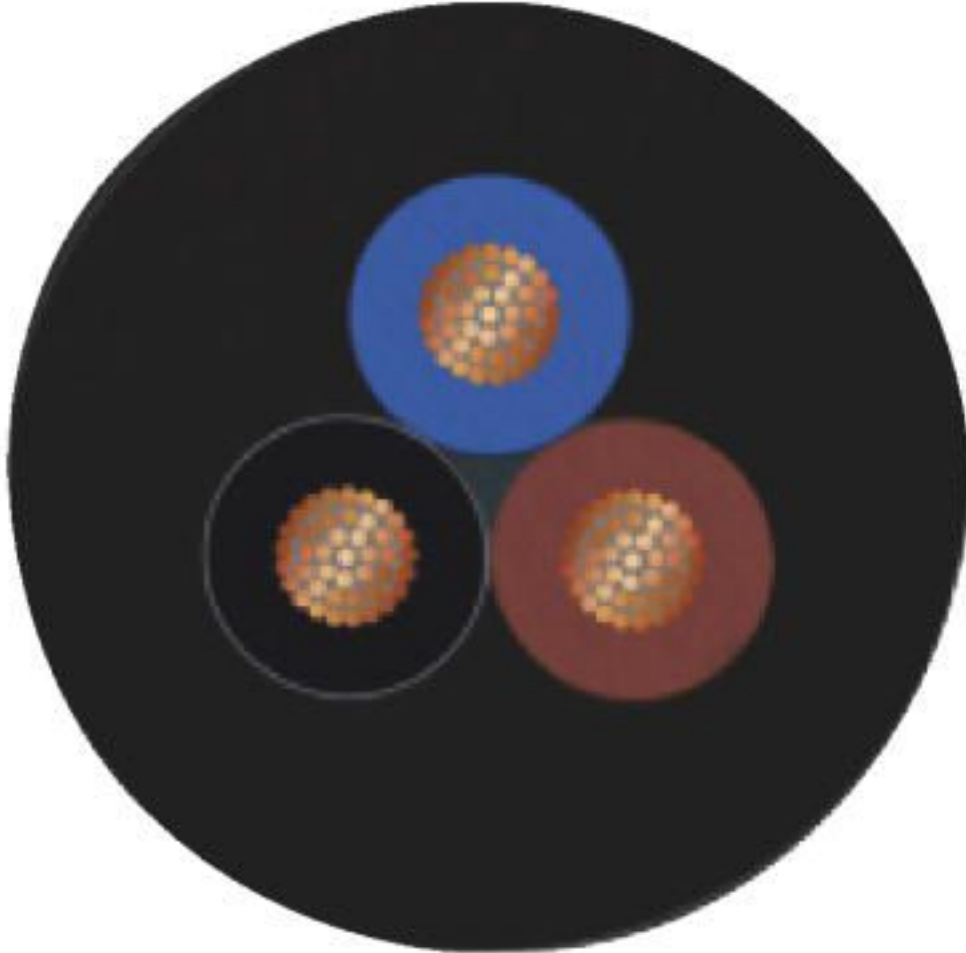
Circuit diagram



Contact assignment of the DEUTSCH DT04-3P

## Sensor/actuator cable - SAC-3P-DTMS/ 5,0-PUR - 1415001

Cable cross section



PUR halogen-free black [PUR]

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27060311 |
| eCl@ss 4.0    | 27060300 |
| eCl@ss 4.1    | 27060300 |
| eCl@ss 5.0    | 27061800 |
| eCl@ss 5.1    | 27061800 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27279218 |
| eCl@ss 8.0    | 27279218 |
| eCl@ss 9.0    | 27060311 |

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 5.0 | EC001855 |
| ETIM 6.0 | EC001855 |
| ETIM 7.0 | EC001855 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 31251501 |
| UNSPSC 19.0 | 31251501 |
| UNSPSC 20.0 | 31251501 |
| UNSPSC 21.0 | 31251501 |

## Approvals

### Approvals

Approvals

EAC-RoHS

Ex Approvals

### Approval details

|          |  |                          |
|----------|--|--------------------------|
| EAC-RoHS |  | RU D-<br>DE.HB35.B.00387 |
|----------|--|--------------------------|

## Accessories

### Accessories

#### Conductor marking

Insert label - PABA WH/23 - 1013779



Insert label, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

## Sensor/actuator cable - SAC-3P-DTMS/ 5,0-PUR - 1415001

### Accessories

Insert label - PABA YE/23 - 1013782



Insert label, Strip, yellow, unlabeled, can be labeled with: CMS-P1-PLOTTER, mounting type: thread on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 20

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### Corrugated pipe

Protective hose - WP-PA HF 13,0 BK - 3240681



Polyamide protective hose, inflammability class V0, UV resistant

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Protective hose - WP-PA HF-HB 13,0 BK - 3240839



Polyamide protective hose, inflammability class HB, UV resistant

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### Cutting tools

Diagonal cutter - CUTFOX-S VDE - 1212207



Diagonal cutter for hard (piano wire) and soft wires, VDE 1000 V AC/1500 V DC tested

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### Marker pen

Marker pen - B-STIFT - 1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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### Stripping tool



## Sensor/actuator cable - SAC-3P-DTMS/ 5,0-PUR - 1415001

### Accessories

Stripping tool - WIREFOX SAC-1 - 1212757



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\varnothing$  of 3.2 to 4.4 mm, any stripping length

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from  $\varnothing$  of 4.4 to 7 mm, any stripping length

Stripping tool - WIREFOX 10 - 1212150



Stripping tool, for cables and conductors from 0.02 - 10 mm<sup>2</sup>, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm<sup>2</sup> stranded/1.5 mm<sup>2</sup> solid, replaceable stripping blade

Protective hose adapter - WP-CTA POM 13,0 BK - 1422884



Protective hose adapter, for corrugated hoses with a nominal size of 13 (10 x 13), corrugated in parallel

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