

# Round cable, SmartWire-DT, 50m, 8-Pole, 8mm

**Part no.** SWD4-50LR8-24
**Article no.** 116030

Powering Business Worldwide

## Delivery programme

| | | | |
|---|---|---|---|
| Product range | | | SmartWire-DT accessories |
| Basic function | | | SWD round cable |
| Function | | | For connecting pilot devices in CI surface mounting enclosures |
| Description | | | 8 pole<br>HK-S0-Li2YY, 8 mm diameter |
| Length | | m | 50 |
| Note regarding length | | | 1 off |
| Connection to SmartWire-DT | | | yes |
| For use with | | | M22-SWD… |
| Protection type (IEC/EN 60529, EN50178, VBG 4) | | | IP67 |

## Technical data

### Ambient conditions, mechanical

| | | | |
|---|---|---|---|
| Protection type (IEC/EN 60529, EN50178, VBG 4) | | | IP67 |

### Climatic environmental conditions

| | | | |
|---|---|---|---|
| Operating ambient temperature (IEC 60068-2) | | °C | |
| Operating ambient temperature max. | | °C | + 70 |
| Condensation | | | permissible |

## Design verification as per IEC/EN 61439

| | | | |
|---|---|---|---|
| Technical data for design verification | | | |
| Rated operational current for specified heat dissipation | $I_n$ | A | 0 |
| Heat dissipation per pole, current-dependent | $P_{vid}$ | W | 0 |
| Equipment heat dissipation, current-dependent | $P_{vid}$ | W | 0 |
| Static heat dissipation, non-current-dependent | $P_{vs}$ | W | 0 |
| Heat dissipation capacity | $P_{diss}$ | W | 0 |
| Operating ambient temperature min. | | °C | -25 |
| Operating ambient temperature max. | | °C | 70 |
| Degree of Protection | | | IP67 |
| IEC/EN 61439 design verification | | | |
| 10.2 Strength of materials and parts | | | |
| 10.2.2 Corrosion resistance | | | Meets the product standard's requirements. |
| 10.2.3.1 Verification of thermal stability of enclosures | | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | | Meets the product standard's requirements. |
| 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects | | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | | Meets the product standard's requirements. |
| 10.2.5 Lifting | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | | Meets the product standard's requirements. |
| 10.3 Degree of protection of ASSEMBLIES | | | Meets the product standard's requirements. |
| 10.4 Clearances and creepage distances | | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | | | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | | | Is the panel builder's responsibility. |
| 10.9 Insulation properties | | | |
| 10.9.2 Power-frequency electric strength | | | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | | | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | | | Is the panel builder's responsibility. |

| | | | |
|---|---|---|---|
| 10.10 Temperature rise | | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | | Is the panel builder's responsibility. |
| 10.12 Electromagnetic compatibility | | | Is the panel builder's responsibility. |
| 10.13 Mechanical function | | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

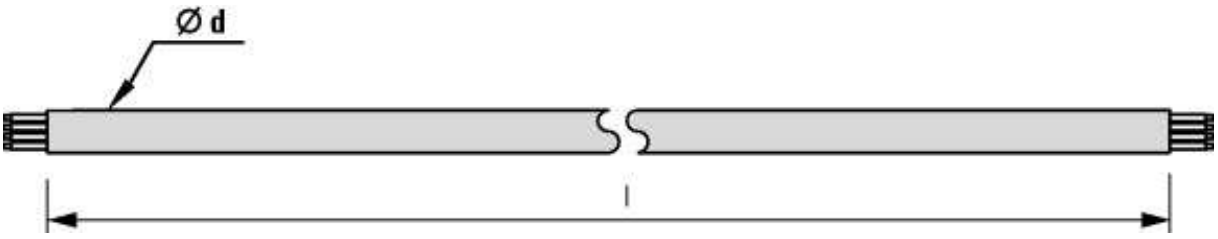
## Technical data ETIM 6.0

| | | | |
|---|---|---|---|
| Cables and wires unpreassembled (EG000001) / Data cable (EC000830) | | | |
| Electric engineering, automation, process control engineering / Cable, wire / Communication cable / Data cable (ecl@ss8.1-27-06-18-01 [AKE197011]) | | | |
| Conductor material | | | Cu, bare |
| Diameter conductor | | mm | 1.5 |
| Nominal cross section conductor | | $mm^2$ | 0.5 |
| AWG-size | | | 20 |
| Conductor category | | | Class 2 = stranded |
| Number of cores | | | 8 |
| Stranding element | | | Pairs |
| Core insulation | | | PE (polyethylene) |
| Core identification | | | Colour |
| Screen over stranding element | | | Foil |
| Screen over stranding | | | None |
| Material outer sheath | | | PVC |
| Colour outer sheath | | | Green |
| Halogen free (acc. EN 60754-1/2) | | | Yes |
| Flame retardant | | | In accordance with EN 60332-1-2 |
| Low smoke (acc. EN 61034-2) | | | No |
| Outer diameter approx. | | mm | 8.2 |
| Permitted cable outer temperature, in movement | | °C | -10 - 80 |
| Permitted cable outer temperature, fixed | | °C | -20 - 80 |
| Category | | | - |
| NVP value | | % | 66.5 |

## Approvals

| | | | |
|---|---|---|---|
| UL File No. | | | E29184 |
| UL Category Control No. | | | NKCR |
| CSA File No. | | | 2324643 |
| CSA Class No. | | | 3211-07 |
| North America Certification | | | UL listed, CSA certified |
| Specially designed for North America | | | No |

## Dimensions




SWD round cable, 8 pole

## Additional product information (links)

| | |
|---|---|
| **Instruction leaflet "SWD4...: wiring material and accessories" IL04716001Z** | |
| Instruction leaflet "SWD4...: wiring material and accessories" IL04716001Z | ftp://ftp.moeller.net/DOCUMENTATION/AWA_INSTRUCTIONS/IL04716001Z2015_08.pdf |
| **Manual "SmartWire-DT, The System" MN05006002Z (AWB2723-1617)** | |
| MN05006002Z (AWB2723-1617) SmartWire-DT, Das System - Deutsch | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf |

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|---|---|
| MN05006002Z (AWB2723-1617) SmartWire-DT, The system - English | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf |
| MN05006002Z (AWB2723-1617) SmartWire-DT, il sistema - italiano | ftp://ftp.moeller.net/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf |
| amp;startpage=Title;Product Range Catalog SmartWire-DT | http://ecat.moeller.net/flip-cat/?edition=SWCAT&amp |
| Technical data | http://ecat.moeller.net/flip-cat/?edition=SWCAT&startpage=32 |
| SWD-ASSIST | http://downloadcenter.moeller.net/en/software.a487d8b7-da91-486f-b3ba-a7ca2035db99 |


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