



**MB-Power-cable, IP67, 1.5 m, 4 pole, Prefabricated with 7/8" right-angle plug and 7/8" right-angle socket**



**Part no. SWD4-1M5LR4P-2R**  
**Catalog No. 183221**  
**Alternate Catalog No. SWD4-1M5LR4P-2R**

Similar to illustration

## Delivery program

|  |  |   |   |
|--|--|---|---|
| Product range                                  |  |   | SmartWire-DT accessories  |
| Basic function                                 |  |   | Supply cable  |
| Function                                       |  |   | For directly connecting the power supply to EU6E., EU8E.. IP67 SmartWire-DT modules |
| Description                                    |  |   | 4 pole<br>Prefabricated with 7/8" right-angle plug and 7/8" right-angle socket      |
| Length   |  | m | 1.5   |
| Note regarding length                          |  |   | 1 off   |
| Connection to SmartWire-DT                     |  |   | yes   |
| 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   |                   |    |  |
| Static heat dissipation, non-current-dependent   | P <sub>vs</sub>   | W  | 0  |
| Heat dissipation capacity  | P <sub>diss</sub> | 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 7.0

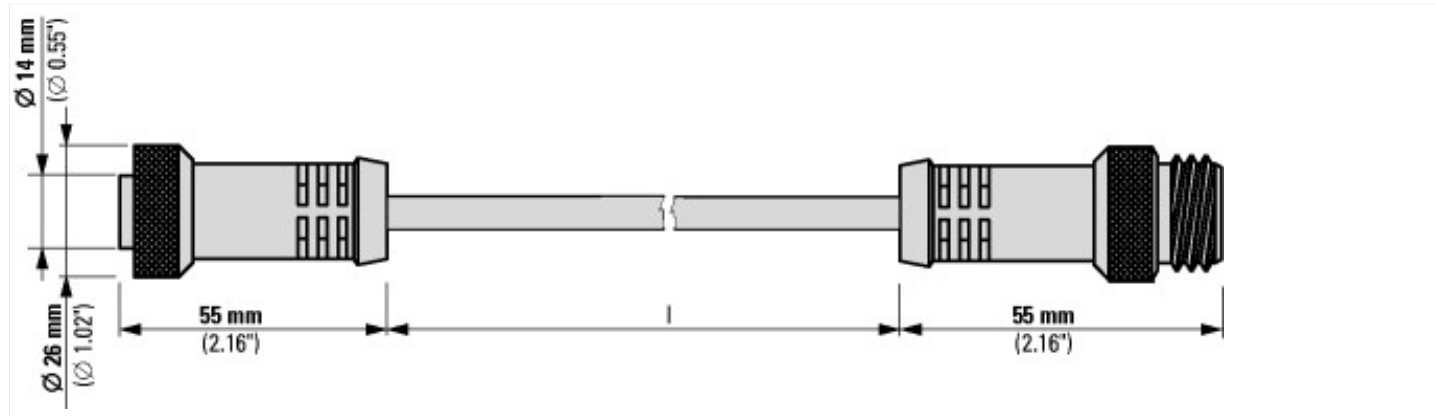
Cables (EG000001) / Data and communication cable (copper) (EC003249)

|  |                 |                                 |
|--|-----------------|---------------------------------|
| Conductor surface  |                 | Bare                            |
| Diameter conductor   | mm              | 1.5                             |
| Nominal cross section conductor  | mm <sup>2</sup> | 0.5                             |
| AWG-size   |                 | 20                              |
| Conductor category   |                 | Class 2 = stranded              |
| Number of cores  |                 | 4                               |
| Number of stranding elements   |                 | 26                              |
| Stranding element  |                 | Pairs                           |
| Core insulation material   |                 |                                 |
| Specification core insulation  |                 | Other                           |
| Core identification  |                 | Colour                          |
| Screen over stranding element  |                 | Foil                            |
| Stranding  |                 | Bundle                          |
| Screen over stranding  |                 | None                            |
| Longitudinal water blocking cable  |                 | Yes                             |
| Radial water blocking cable  |                 | Yes                             |
| Protective sheath  |                 |                                 |
| Armouring  |                 | No                              |
| Material outer sheath  |                 | Polyvinyl chloride (PVC)        |
| Specification material outer sheath  |                 |                                 |
| Colour outer sheath  |                 | Black                           |
| Reaction-to-fire class according to EN 13501-6                               |                 | None                            |
| Smoke development class according to EN 13501-6                              |                 | None                            |
| Euro class flaming droplets/particles according to EN 13501-6                |                 | None                            |
| Euro class acidity according to EN 13501-6                                   |                 | None                            |
| Halogen free (acc. EN 60754-1/2)   |                 | No                              |
| Halogen free (acc. IEC 60754-2)  |                 | No                              |
| Flame retardant  |                 | In accordance with EN 60332-1-2 |
| Low smoke (acc. EN 61034-2)  |                 | No                              |
| Low smoke (acc. IEC 61034-2)   |                 | No                              |
| Oil resistant (acc. EN 60811-404)  |                 | Yes                             |
| Oil resistant (acc. IEC 60811-404)   |                 | Yes                             |
| Insulation integrity in accordance with IEC 60331                            |                 | No                              |
| Circuit integrity  |                 | No                              |
| Outer diameter approx.   | mm              | 11                              |
| Min. permitted bending radius, moving application with forced guidance       | mm              |                                 |
| Min. permitted bending radius, moving application/free movement              | mm              |                                 |
| Min. permitted bending radius, stationary application/permanent installation | mm              | 64                              |
| Permitted cable outer temperature during assembling/handling                 | °C              | -25 - 70                        |
| Permitted cable outer temperature after assembling without vibration         | °C              | -25 - 70                        |
| Category   |                 | Other                           |
| NVP value  | %               | 66.5                            |
| Underground installation   |                 | No                              |
| UV resistant   |                 | Yes                             |

## Approvals

|                                      |  |                          |
|--------------------------------------|--|--------------------------|
| North America Certification          |  | UL listed, CSA certified |
| Specially designed for North America |  | No                       |

## Dimensions



Supply cable

## Additional product information (links)

### instruction leaflet SWD I/O modules IP67 EU1E-SWD-..., EU2E-SWD-..., EU1S-SWD-..., EU2A-SWD-... IL120005ZU

instruction leaflet SWD I/O modules IP67 EU1E-SWD-..., EU2E-SWD-..., EU1S-SWD-..., EU2A-SWD-... IL120005ZU [https://es-assets.eaton.com/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL120005ZU2018\\_02.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL120005ZU2018_02.pdf)

### instruction leaflet SWD I/O modules IP67 EU6E-SWD-..., EU8E-SWD-... IL120006ZU

instruction leaflet SWD I/O modules IP67 EU6E-SWD-..., EU8E-SWD-... IL120006ZU [https://es-assets.eaton.com/DOCUMENTATION/AWA\\_INSTRUCTIONS/IL120006ZU2018\\_02.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWA_INSTRUCTIONS/IL120006ZU2018_02.pdf)

### SmartWire-DT manual, The System MN05006002Z

Handbuch SmartWire-DT, Das System MN05006002Z - Deutsch [https://es-assets.eaton.com/DOCUMENTATION/AWB\\_MANUALS/MN05006002Z\\_DE.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05006002Z_DE.pdf)

SmartWire-DT manual, The System MN05006002Z - English [https://es-assets.eaton.com/DOCUMENTATION/AWB\\_MANUALS/MN05006002Z\\_EN.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05006002Z_EN.pdf)

Manuale SmartWire-DT, il sistema MN05006002Z - italiano [https://es-assets.eaton.com/DOCUMENTATION/AWB\\_MANUALS/MN05006002Z\\_IT.pdf](https://es-assets.eaton.com/DOCUMENTATION/AWB_MANUALS/MN05006002Z_IT.pdf)

SmartWire-DT product range catalog <http://ecat.moeller.net/flip-cat/?edition=SWKAT&startpage=Titel>

f1=1457&f2=1181&f3=1530;Download Wizard SWD-ASSIST <http://applications.eaton.eu/sdlc?LX=11&f1=1457&f2=1181&f3=1530>

Product overview (WEB) <http://www.eaton.eu/swd>