# Specifications



## Eaton 116027

Eaton SWD4 Flat cable, SmartWire-DT, 3 m, 8-Pole, prefabricated with 2 blade terminals SWD4-8MF2

| General specifications | |
|---|---|
| **PRODUCT NAME** | Eaton SWD4 Accessory Flat cable |
| **CATALOG NUMBER** | 116027 |
| **MODEL CODE** | SWD4-3LF8-24-2S |
| **EAN** | 4015081157679 |
| **PRODUCT LENGTH/DEPTH** | 90 mm |
| **PRODUCT HEIGHT** | 22 mm |
| **PRODUCT WIDTH** | 90 mm |
| **PRODUCT WEIGHT** | 0.11 kg |
| **CERTIFICATIONS** | UL<br>UL File No.: E29184<br>UL Category Control No.: NKCR<br>CSA File No.: 2324643<br>CSA Class No.: 3211-07<br>CSA |
| **GLOBAL CATALOG** | 116027 |
| **PRODUCT TYPE** | Accessory |

## Product specifications

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| **NUMBER OF POLES** | Eight-pole |
| **SUITABLE AS** | Signaling cable |
| **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. |
| **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 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. 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. |

## Resources

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| **BROCHURES** | eaton-smartwire-dt-intelligent-wiring-brochure-br120001en-en-us.pdf |
| **CATALOGS** | eaton-drives-soft-starter-catalog-ca04020001zen-us.pdf<br>-<br>eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf |
| **DECLARATIONS OF CONFORMITY** | eaton-accessory-declaration-of-conformity-uk250999en.pdf<br>eaton-accessory-declaration-of-conformity-eu250516en.pdf |
| **DRAWINGS** | eaton-modular-plc-swd4-flat-cable-dimensions.eps<br>eaton-modular-plc-swd4-flat-cable-3d-drawing.eps<br>eaton-general-eu5e-i-o-module-symbol.eps |
| **ECAD MODEL** | DA-CE-ETN.SWD4-3LF8-24-2S |
| **INSTALLATION INSTRUCTIONS** | IL04716001Z |
| **INSTALLATION VIDEOS** | SmartWire-DT in Application |
| **MANUALS AND USER GUIDES** | MN05006002Z_EN |
| **MULTIMEDIA** | SmartWire-DT Overview and how to use in easySoft 7<br>How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4?<br>easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator |
| **SALES NOTES** | eaton-electro-hydraulic-module-eu1h-flyer-fl120003en-en-us.pdf<br>eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf |
| **SPECIFICATIONS AND DATASHEETS** | Eaton Specification Sheet - 116027 |

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| **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. |
| **10.9.2 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. |
| **CABLE TYPE** | Other |
| **FITTED WITH:** | 2 blade terminals SWD4-8MF2 |
| **CONDUCTOR CATEGORY** | Class 2 = stranded |
| **CABLE CATEGORY** | Other |
| **REACTION-TO-FIRE CLASS (EN 13501-6)** | None |
| **SPECIFICATION MATERIAL OUTER SHEATH** | Other |
| **STRANDING** | Other |
| **STRANDING ELEMENT** | No |
| **AMBIENT OPERATING TEMPERATURE - MAX** | 55 °C |
| **AMBIENT OPERATING TEMPERATURE - MIN** | -25 °C |
| **EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID** | 0 W |
| **HEAT DISSIPATION CAPACITY** | 0 W |

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|---|---|
| **PDISS** | |
| **HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID** | 0 W |
| **NOMINAL CROSS SECTION (CONDUCTOR)** | 0.23 mm² |
| **NUMBER OF CORES** | 8 |
| **NUMBER OF STRANDING ELEMENTS** | 0 |
| **NVP VALUE** | 66.7 % |
| **OUTER DIAMETER - APPROXIMATE** | 17.5 mm |
| **PERMITTED BENDING RADIUS, MOVING APPLICATION WITH FORCED GUIDANCE - MIN** | 15 mm |
| **PERMITTED BENDING RADIUS, MOVING APPLICATION WITH FREE MOVEMENT - MIN** | 15 mm |
| **PERMITTED BENDING RADIUS, STATIONARY APPLICATION/PERMANENT INSTALLATION - MIN** | 7.5 mm |
| **PERMITTED TEMPERATURE OF OUTER CABLE (ASSEMBLED) WITHOUT VIBRATION - MAX** | 105 °C |
| **PERMITTED TEMPERATURE OF OUTER CABLE (ASSEMBLED) WITHOUT VIBRATION - MIN** | -30 °C |
| **PERMITTED TEMPERATURE OF OUTER CABLE (ASSEMBLING/HANDLING) - MAX** | 105 °C |
| **PERMITTED TEMPERATURE OF OUTER CABLE (ASSEMBLING/HANDLING) - MIN** | -10 °C |
| **CIRCUIT INTEGRITY** | None |
| **APPROVED TYPE OF UNDERGROUND INSTALLATION** | Other |
| **MATERIAL REINFORCEMENT** | Other |
| **ARMOURING/REINFORCEMENT** | None |
| **CABLE GEOMETRY** | Flat |
| **CONDUCTOR MATERIAL** | Other |
| **RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)** | 0 A |
| **STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS** | 0 W |
| **PRODUCT CATEGORY** | SmartWire-DT accessories |
| **CONDUCTOR DIAMETER** | 1.35 mm |
| **AWG-SIZE** | 24 |
| **CABLE LENGTH** | 3 m |
| **CONDUCTOR SURFACE** | Tinned |
| **CORE IDENTIFICATION** | Colour |

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| **CORE INSULATION MATERIAL** | Polyvinyl chloride (PVC)<br>Other |
| **EURO CLASS ACIDITY (EN 13501-6)** | None |
| **EURO CLASS FLAMING DROPLETS/PARTICLES (EN 13501-6)** | None |
| **FLAME RETARDANT** | In accordance with EN 60332-1-2 |
| **OUTER SHEATH COLOR** | Green |
| **OUTER SHEATH MATERIAL** | Polyvinyl chloride (PVC) |
| **PROTECTIVE SHEATH MATERIAL** | Other |
| **SCREEN OVER STRANDING** | None |
| **SCREEN OVER STRANDING ELEMENT** | None |
| **SMOKE DEVELOPMENT CLASS (EN 13501-6)** | None |
| **FUNCTIONS** | For connecting the SmartWire-DT modules within the control panel |
| **NOMINAL VOLTAGE U** | 24 V |
| **CHARACTERISTIC IMPEDANCE** | 100 Ω |
| **ROLLED OUT CABLE WIDTH** | 17.5 mm |
| **TENSILE STRENGTH DURING INSTALLATION - MAX** | 11.5 N |
| **NUMBER OF SHEATH LAYERS** | 0 |
| **WEIGHT PER KILOMETER** | 36.67 kg/km |

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|---|---|
| **PROJECT NAME:** | |
| **PROJECT NUMBER:** | |
| **PREPARED BY:** | |
| **DATE:** | |

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