

# Specifications

## Eaton 116027



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

### General specifications

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

## Product specifications

<b>NUMBER OF POLES</b>	Eight-pole
<b>SUITABLE AS</b>	Signaling cable
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire

## Resources

<b>BROCHURES</b>	<a href="#">eaton-smartwire-dt-intelligent-wiring-brochure-br120001en-en-us.pdf</a>
<b>CATALOGS</b>	<a href="#">SmartWire-DT Catalog</a> <a href="#">Product Range Catalog Drives Engineering</a> <a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>
<b>DECLARATIONS OF CONFORMITY</b>	<a href="#">eaton-accessory-declaration-of-conformity-uk250999en.pdf</a> <a href="#">eaton-accessory-declaration-of-conformity-eu250516en.pdf</a>
<b>DRAWINGS</b>	<a href="#">eaton-modular-plc-swd4-flat-cable-dimensions.eps</a> <a href="#">eaton-modular-plc-swd4-flat-cable-3d-drawing.eps</a> <a href="#">eaton-general-eu5e-i-o-module-symbol.eps</a> <a href="#">eaton-general-easy-control-relays-symbol-002.tif</a> <a href="#">eaton-general-approval-easy-control-relays-standards.jpg</a>
<b>ECAD MODEL</b>	<a href="#">DA-CE-ETN.SWD4-3LF8-24-2S</a>
<b>INSTALLATION INSTRUCTIONS</b>	<a href="#">IL04716001Z</a>
<b>INSTALLATION VIDEOS</b>	<a href="#">SmartWire-DT in Application</a>
<b>MANUALS AND USER GUIDES</b>	<a href="#">MN05006002Z_EN</a>
<b>MULTIMEDIA</b>	<a href="#">How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4?</a> <a href="#">easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator</a>

	switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF PROTECTION OF ASSEMBLIES</b>	Meets the product standard's requirements.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>CABLE TYPE</b>	Other
<b>FITTED WITH:</b>	2 blade terminals SWD4-8MF2
<b>CONDUCTOR CATEGORY</b>	Class 2 = stranded

	<a href="#">SmartWire-DT Overview and how to use in easySoft Z</a>
<b>SALES NOTES</b>	<a href="#">eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf</a> <a href="#">eaton-electro-hydraulic-module-eu1h-flyer-fl120003en-en-us.pdf</a>
<b>SPECIFICATIONS AND DATASHEETS</b>	<a href="#">Eaton Specification Sheet - 116027</a>

<b>CABLE CATEGORY</b>	Other
<b>REACTION-TO-FIRE CLASS (EN 13501-6)</b>	None
<b>SPECIFICATION MATERIAL OUTER SHEATH</b>	Other
<b>STRANDING</b>	Other
<b>STRANDING ELEMENT</b>	No
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	55 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0 W
<b>NOMINAL CROSS SECTION (CONDUCTOR)</b>	0.23 mm <sup>2</sup>
<b>NUMBER OF CORES</b>	8
<b>NUMBER OF STRANDING ELEMENTS</b>	0
<b>NVP VALUE</b>	66.7 %
<b>OUTER DIAMETER - APPROXIMATE</b>	17.5 mm
<b>PERMITTED BENDING RADIUS, MOVING APPLICATION WITH FORCED GUIDANCE - MIN</b>	15 mm
<b>PERMITTED BENDING RADIUS, MOVING APPLICATION WITH FREE MOVEMENT - MIN</b>	15 mm
<b>PERMITTED BENDING RADIUS, STATIONARY APPLICATION/PERMANENT INSTALLATION - MIN</b>	7.5 mm
<b>PERMITTED TEMPERATURE OF OUTER CABLE (ASSEMBLED) WITHOUT VIBRATION - MAX</b>	105 °C
<b>PERMITTED TEMPERATURE OF OUTER CABLE (ASSEMBLED) WITHOUT VIBRATION - MIN</b>	-30 °C
<b>PERMITTED TEMPERATURE OF OUTER CABLE (ASSEMBLING/HANDLING) - MAX</b>	105 °C
<b>PERMITTED TEMPERATURE OF OUTER CABLE (ASSEMBLING/HANDLING) - MIN</b>	-10 °C
<b>CIRCUIT INTEGRITY</b>	None

<b>APPROVED TYPE OF UNDERGROUND INSTALLATION</b>	Other
<b>MATERIAL REINFORCEMENT</b>	Other
<b>ARMOURING/REINFORCEMENT</b>	None
<b>CABLE GEOMETRY</b>	Flat
<b>CONDUCTOR MATERIAL</b>	Other
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	0 A
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	0 W
<b>PRODUCT CATEGORY</b>	SmartWire-DT accessories
<b>CONDUCTOR DIAMETER</b>	1.35 mm
<b>AWG-SIZE</b>	24
<b>CABLE LENGTH</b>	3 m
<b>CONDUCTOR SURFACE</b>	Tinned
<b>CORE IDENTIFICATION</b>	Colour
<b>CORE INSULATION MATERIAL</b>	Polyvinyl chloride (PVC)
	Other
<b>EURO CLASS ACIDITY (EN 13501-6)</b>	None
<b>EURO CLASS FLAMING DROPLETS/PARTICLES (EN 13501-6)</b>	None
<b>FLAME RETARDANT</b>	In accordance with EN 60332-1-2
<b>OUTER SHEATH COLOR</b>	Green
<b>OUTER SHEATH MATERIAL</b>	Polyvinyl chloride (PVC)
<b>PROTECTIVE SHEATH MATERIAL</b>	Other
<b>SCREEN OVER STRANDING</b>	None
<b>SCREEN OVER STRANDING ELEMENT</b>	None
<b>SMOKE DEVELOPMENT CLASS (EN 13501-6)</b>	None
<b>FUNCTIONS</b>	For connecting the SmartWire-DT modules within the control panel
<b>NOMINAL VOLTAGE U</b>	24 V

CHARACTERISTIC IMPEDANCE	100 $\Omega$
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

PROJECT NAME:
PROJECT NUMBER:
PREPARED BY:
DATE:



**Eaton Corporation plc** Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

© 2025 Eaton. All Rights Reserved.

Follow us on social media to get the latest product and support information.

