

Eaton 116027

Catalog Number: 116027

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

General specifications



Product Name	Catalog Number
Eaton SWD4 Accessory Flat cable	116027
Model Code	EAN
SWD4-3LF8-24-2S	4015081157679
Product Length/Depth	Product Height
90 mm	22 mm
Product Width	Product Weight
90 mm	0.11 kg

Certifications

UL
UL File No.: E29184
UL Category Control No.: NKCR
CSA File No.: 2324643
CSA Class No.: 3211-07
CSA

Product specifications

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.

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

Meets the product standard's requirements.

Resources

Brochures

[eaton-smartwire-dt-intelligent-wiring-brochure-br120001en-en-us.pdf](#)

Catalogs

[Product Range Catalog Drives Engineering](#)

[SmartWire-DT Catalog](#)

[eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf](#)

Declarations of conformity

[DA-DC-00003537.pdf](#)

[DA-DC-00003868.pdf](#)

Drawings

[eaton-modular-plc-swd4-flat-cable-dimensions.eps](#)

[eaton-general-eu5e-i-o-module-symbol.eps](#)

[eaton-general-approval-easy-control-relays-standards.jpg](#)

[eaton-modular-plc-swd4-flat-cable-3d-drawing.eps](#)

[eaton-general-easy-control-relays-symbol-002.tif](#)

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

[easyE4 SmartWire-DT module with Remote Touch Display and RMQ multi color indicator](#)

[How to process SmartWire-DT modules using the EASY-COM-SWD-C1 module connected to an easyE4?](#)

[SmartWire-DT Overview and how to use in easySoft 7](#)

Sales notes

[eaton-electro-hydraulic-module-eu1h-flyer-fl120003en-en-us.pdf](#)

[eaton-rmq-chemical-resistance-flyer-fl047011en-en-us.pdf](#)

Specifications and datasheets

[Eaton Specification Sheet - 116027](#)

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 Pdis

0 W

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

Core insulation material

Polyvinyl chloride (PVC)

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