

Flat cable, SmartWire-DT, 100m, 8-Pole



Part no. SWD4-100LF8-24
116026
EL Number 4519783
(Norway)

General specifications	
Product name	Eaton SWD4 Accessory Flat cable
Part no.	SWD4-100LF8-24
EAN	4015081157662
Product Length/Depth	350 millimetre
Product height	40 millimetre
Product width	350 millimetre
Product weight	3.5 kilogram
Certifications	UL File No.: E29184 CSA UL UL Category Control No.: NKCR CSA File No.: 2324643 CSA Class No.: 3211-07
Product Tradename	SWD4
Product Type	Accessory
Product Sub Type	Flat cable
Catalog Notes	Condensation: prevent with appropriate measures not ready-assembled Relative humidity: 5 - 95 % (non-condensing, IEC/EN 60068-2-30)
Features & Functions	
Features	Longitudinal water blocking cable UV resistant
Functions	For connecting the SmartWire-DT modules within the control panel
General information	
Cable length	100 m
Number of Poles	Eight-pole
Outer diameter - approximate	17.5 mm
Outer sheath material	Polyvinyl chloride (PVC)
Permitted bending radius, moving application with free movement - min	15 mm
Product category	SmartWire-DT accessories
Suitable as	Signaling cable
Climatic environmental conditions	
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	55 °C
Safety	
Flame retardant	In accordance with EN 60332-1-2
Design verification	
Equipment heat dissipation, current-dependent P _{vid}	0 W
Heat dissipation capacity P _{diss}	0 W
Heat dissipation per pole, current-dependent P _{vid}	0 W
Rated operational current for specified heat dissipation (I _n)	0 A
Static heat dissipation, non-current-dependent P _{vs}	0 W
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.
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.
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 9.0

Cables (EG000001) / Data and communication cable (EC003249)		
Electric engineering, automation, process control engineering / Cable, wire / Communication cable / Data and communication cable (copper) (ecl@ss13-27-06-18-01 [AKE197019])		
Cable type		Other
Duplex		No
Conductor material		Other
Conductor surface		Tinned
Diameter conductor	mm	1.35
Nominal cross section conductor	mm ²	0.23
AWG size		24
Conductor category		Class 2 = stranded
Number of cores		8
Number of stranding elements		0
Stranding element		Pairs
Material core insulation		Polyvinyl chloride (PVC)
Specification core insulation		Other
Core identification according to HD 308 S2		No
Core identification		Colour
Screen over stranding element		Foil
Stranding		Bundle
Screen over stranding		None
Longitudinal water blocking cable		Yes
Radial water blocking cable		No
Suitable for underground installation		No
Approved type of underground installation		Other
Protective sheath		Other
Material outer sheath		Polyvinyl chloride (PVC)
Specification material outer sheath		Other
Colour outer sheath		Green
Number of sheath layers		0
Armouring/reinforcement		None
Material armouring		Other
Cable geometry		Flat
Flame retardant according to IEC 60332-1-2		No
Flame retardant according to IEC 60332-3-21 (Cat A F/R)		No
Flame retardant according to IEC 60332-3-22 (Cat A)		No
Flame retardant according to IEC 60332-3-23 (Cat B)		No
Flame retardant according to IEC 60332-3-24 (Cat C)		No
Flame retardant according to IEC 60332-3-25 (Cat D)		No

Low smoke according to EN IEC 61034-2		No
Halogen free according to EN IEC 60754-1		No
Halogen free according to EN IEC 60754-2		No
Halogen free according to EN IEC 60754-3		No
Reaction-to-fire according to EN 13501-6: Class		None
Reaction-to-fire according to EN 13501-6: Smoke production		None
Reaction-to-fire according to EN 13501-6: Flaming droplets/particles		None
Reaction-to-fire according to EN 13501-6: Acidity		None
Circuit integrity according to IEC 60331-23		No
Oil resistant according to EN IEC 60811-404		No
Outer diameter approx.	mm	17.5
Min. permitted bending radius, moving application with forced guidance	mm	15
Min. permitted bending radius, moving application/free movement	mm	15
Min. permitted bending radius, stationary application/permanent installation	mm	7.5
Permitted cable outer temperature during assembling/handling	°C	-10 - 105
Permitted cable outer temperature after assembling without vibration	°C	-30 - 105
Category		Other
NVP value	%	66.7
UV resistant		Yes
Certified for shipboard application		No
Segregation class according to EN 50174-2		
Suitable as telephone cable		No
Suitable as computer data cable		No
Suitable as signalling cable		Yes
Suitable for use as security alarm cable		No
Drain wire		No
With rip cord		No
Cable width approx.	mm	17.5
Cable height approx.	mm	40
Weight	kg/km	
Characteristic impedance	Ohm	100
Max. tensile strength during installation	kN	0.0115
Nominal voltage U	V	24
With rodent protection		No
Circuit integrity according to DIN 4102-12		
Compatible with Grade2TV according to XP-C 90-483		No
Compatible with Grade3TV according to XP-C 90-483		No
Cable type according to BS 4737-3.30		
Rip cord colour according to BS 4737-3.30		
Compliant with BT (British Telecom) specification		