DATASHEET - SWD4-M3LR5-2S

SWD round cable IP67, 0.3 m, 5 pole, prefabricated with M12 plug and M12 socket

Part no.	SWD4-M3LR5-2S
Catalog No.	174761
Alternate Catalog No.	SWD4-M3LR5-2S

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Delivery program

Product range		SmartWire-DT accessories
Basic function		SWD round cable
Function		For connecting peripheral SmartWire-DT cards
Description		5 pole prefabricated with M12 socket and M12 plug, A-keyed
Length	m	0.3
Note regarding length		1 off
Connection to SmartWire-DT		yes
For use with		EU1…-SWD… EU2…-SWD… EU6…-SWD… EU8…-SWD-…
Protection type (IEC/EN 60529, EN50178, VBG 4)		IP67

Technical data

General

Approvals		UL CSA

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_{vs}	W	0
Heat dissipation capacity	P_{diss}	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.

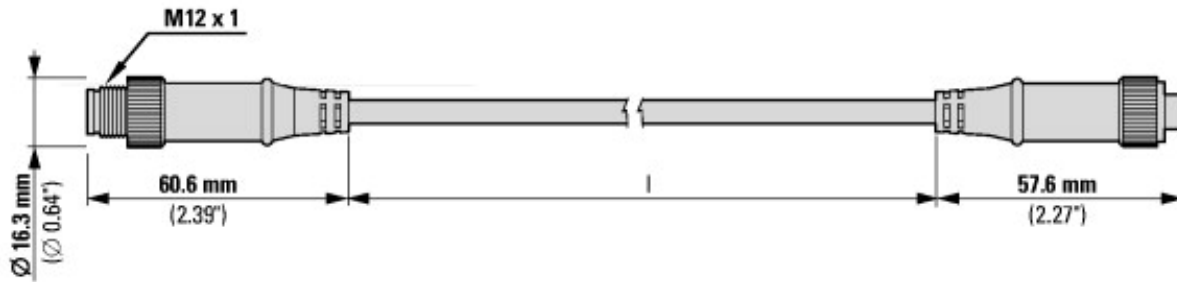| 10.8 Connections for external conductors			Is the panel builder's responsibility.
10.9 Insulation properties			
10.9.2 Power-frequency electric strength			Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage			Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	°C		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	mm²		0.5
AWG-size			20
Conductor category			Class 2 = stranded
Number of cores			5
Number of stranding elements			5
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			Polypropylene
Colour outer sheath			Green
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		5.6
Min. permitted bending radius, moving application with forced guidance	mm		46
Min. permitted bending radius, moving application/free movement	mm		46
Min. permitted bending radius, stationary application/permanent installation	mm		34
Permitted cable outer temperature during assembling/handling	°C		-40 - 80
Permitted cable outer temperature after assembling without vibration	°C		-40 - 80
Category			Other
NVP value	%		66.5

| Underground installation | | No |
| UV resistant | | Yes |

Approvals

UL File No.		E149111
North America Certification		UL listed, CSA certified
Specially designed for North America		No

Dimensions

M12 SWD round cable, 5 pole

Additional product information (links)

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&amp
Product overview WEB)	http://www.eaton.eu/swd