DATASHEET - SWD4-M1LR5-2S



SmartWire-DT round cable IP67, 0.1 meters, 5-pole, Prefabricated with M12 plug and M12 socket





Part no. SWD4-M1LR5-2S Catalog No. 174760 Alternate Catalog SWD4-M1LR5-2S

Similar to illustration

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	0.1
Note regarding length		1 off
Connection to SmartWire-DT		yes
For use with		EU1SWD EU2SWD EU6SWD EU8SWD

Technical data

Protection type (IEC/EN 60529, EN50178, VBG 4)

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Conordi		
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

IP67

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.
$10.2.3.3\mbox{Verification}$ 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	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

Stranding element Pairs Core insulation material Other Specification core insulation Other Core identification Element Screen over stranding element Foil Stranding Bundle Screen over stranding None Longiquidinal water blocking cable Yes Redial water blocking cable Yes Protective sheath Polyvinyl chloride (PVC) Armouring No Material outer sheath Polyvinyl chloride (PVC) Specification material outer sheath Polyvinyl chloride (PVC) Scolur outer sheath Polyvinyl chloride (PVC) Smoke development class according to EN 13501-6 None Euro class flaming droplets/particles according to EN 13501-8 None Euro class flaming droplets/particles according to EN 13501-6 None Euro class flaming droplets/particles according to EN 13501-8 None Euro class flaming droplets/particles according to EN 13501-6 None Euro class flaming droplets/particles according to EN 13501-6 None Euro class flaming droplets/particles according to EN 13501-6 None <th>Cables (EG000001) / Data and communication cable (copper) (EC003249)</th> <th></th> <th></th>	Cables (EG000001) / Data and communication cable (copper) (EC003249)		
Nominal cross section conductor mm² 0.5 AWG-size 20 Class 2 = stranded Conductor category 5 Class 2 = stranded Number of forces 5 5 Number of stranding elements 5 5 Stranding elements 6 10 mc Core insulation material 10 mc 10 mc Stranding element 10 mc 10 mc Stra	Conductor surface		Bare
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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	Min. permitted bending radius, moving application with forced guidance	mm	46
Permitted cable outer temperature during assembling/handling °C -40 - 80 Permitted cable outer temperature after assembling without vibration °C -40 - 80	Min. permitted bending radius, moving application/free movement	mm	46
Permitted cable outer temperature after assembling without vibration °C -40 - 80	Min. permitted bending radius, stationary application/permanent installation	mm	34
	Permitted cable outer temperature during assembling/handling	°C	-40 - 80
Category Other	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



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