

## Round cable, SmartWire-DT, 250m, 8-Pole, 8mm

**Part no.**                      **SWD4-250LR8-24**  
**144878**

Product name	Eaton SWD4 Accessory Round cable
Part no.	SWD4-250LR8-24
EAN	4015081413775
Product Length/Depth	400 millimetre
Product height	400 millimetre
Product width	250 millimetre
Product weight	20 kilogram
Certifications	CSA Class No.: 3211-07 CSA File No.: 2324643 CSA UL UL File No.: E29184 UL Category Control No.: NKCR
Product Tradename	SWD4
Product Type	Accessory
Product Sub Type	Round cable
Catalog Notes	Condensation: permissible
Features	Longitudinal water blocking cable Oil resistant (acc. EN 60811-404) Oil resistant (acc. IEC 60811-404) UV resistant
Functions	For connection to SWD4-8FRF-10 SWD cable adapter and M22-SWD-Ix series printed circuit boards
Cable length	250 m
Number of Poles	Eight-pole
Outer diameter - approximate	8.2 mm
Outer sheath material	Polyvinyl chloride (PVC)
Permitted bending radius, moving application with free movement - min	120 mm
Product category	SmartWire-DT accessories
Suitable as	Signaling cable
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	70 °C
Flame retardant	In accordance with EN 60332-1-2
Equipment heat dissipation, current-dependent P <sub>vid</sub>	0 W
Heat dissipation capacity P <sub>diss</sub>	0 W
Heat dissipation per pole, current-dependent P <sub>vid</sub>	0 W
Rated operational current for specified heat dissipation (I <sub>n</sub> )	0 A
Static heat dissipation, non-current-dependent P <sub>vs</sub>	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 8.0

Cables (EG000001) / Data and communication cable (EC003249)		
Electric engineering, automation, process control engineering / Cable, wire / Communication cable / Data and communication cable (copper) (ecl@ss10.0.1-27-06-18-01 [AKE197014])		
Conductor material		Other
Conductor surface		Bare
Diameter conductor	mm	1.5
Nominal cross section conductor	mm <sup>2</sup>	0.5
AWG size		20
Conductor category		Class 2 = stranded
Number of cores		8
Number of stranding elements		4
Stranding element		Pairs
Material core insulation		Other
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
Armouring/reinforcement		None
Material reinforcement		Other
Cable geometry		Round
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 (according to EN 60754-1/2)		No
Halogen free (according to IEC 60754-2)		No
Flame retardant		According to IEC/EN 60332-1-2
Low smoke (according to EN 61034-2)		No
Low smoke (according to IEC 61034-2)		No
Oil resistant (according to EN 60811-404)		Yes
Oil resistant (according to IEC 60811-404)		Yes

Insulation integrity according to IEC 60331		No
Circuit integrity		None
Outer diameter approx.	mm	8.2
Min. permitted bending radius, moving application with forced guidance	mm	120
Min. permitted bending radius, moving application/free movement	mm	120
Min. permitted bending radius, stationary application/permanent installation	mm	120
Permitted cable outer temperature during assembling/handling	°C	-10 - 80
Permitted cable outer temperature after assembling without vibration	°C	-20 - 80
Category		Other
NVP value	%	66.5
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
Weight	kg/km	
Compatible with Grade2TV according to XP-C 90-483		No
Compatible with Grade3TV according to XP-C 90-483		No