#### **DATASHEET - SWD4-10LR5-2S**



SmartWire-DT round cable IP67, 10 meters, 5-pole, Prefabricated with M12 plug and M12 socket



**6** 

Part no. SWD4-10LR5-2S Catalog No. 174769 Alternate Catalog SWD4-10LR5-2S

No

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	10
Note regarding length		1 off
Connection to SmartWire-DT		yes
For use with		EU1SWD EU2SWD EU6SWD EU8SWD
Protection type (IEC/EN 60529, EN50178, VBG 4)		IP67

#### **Technical data**

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Conordi			
Approvals			UL CSA
Ambient conditions, mechanical			
Protection type (IEC/EN 60529, EN50178, VBG 4)			1P67
Climatic environmental conditions			
Operating ambient temperature (IEC 60068-2)	°C	2	
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 <sub>diss</sub>	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	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**

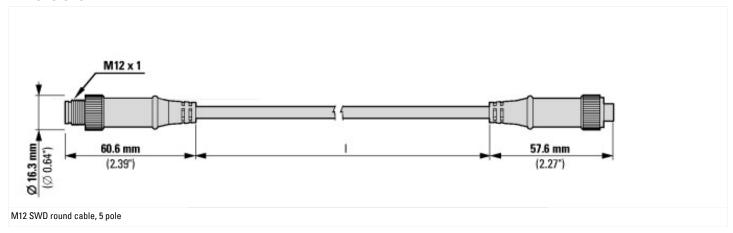
Stranding element         Pairs           Core insulation material         Other           Specification core insulation         Other           Core identification         Element           Screen over stranding element         Foil           Stranding         Bundle           Screen over stranding         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
AWG size         20           Conductor catagory         Class 2 = stranded           Number of cores         5           Number of stranding elements         6           Stranding element         Cher insulation material           Specification or naterial         Cher insulation material           Spread event stranding element         Cher Golour           Screen over stranding element         Fall           Stranding         Bundle           Stranding and vater blocking cable         None           Screen over stranding vater blocking cable         Yes           Protective sheeth         Polyvery claining in [PVC)           Ammoring         None           Ammoring         Polyvery claining [PVC)           Specification material outer sheeth         Polyvery claining [PVC)           Specification material outer sheeth         Polyvery claining [PVC)           Specification material outer sheeth         None           Specification free class according to EN 13501-8         None           Euro class a faming droplers/particles according to EN 13501-8         None           Euro class faming droplers/particles according to EN 13501-8         None           Euro class faming droplers/particles according to EN 13501-8         None           Hallogen free Lec. EN 1054-2	Diameter conductor	mm	1.5
Conductor category         Class 2 = stranded           Number of stranding elements         5           Stranding element         Pairs           Core insulation material         Chece insulation care insulation           Sepedication care insulation         Colour           Screan over stranding alement         Colour           Strean over stranding alement         Bundle           Strean over stranding alement         Bundle           Strean over stranding alement         Yes           Strean over stranding alement         Yes           Longitudinal water blocking cable         Yes           Protective shauth         Yes           Amounting         Polyaropolytic           Material outer shaeth         Polyaropolytic           Specification material outer shaeth         Polyaropolytic           Rescribent—in-five class according to EN 13501-6         None           Rescribent—in-five class according to EN 13501-6         None           Euro class action alouter shaeth         None           Rescribencies according to EN 13501-6         None           Euro class action fly according to EN 13501-6         None           Euro class action fly according to EN 13501-6         None           Euro class action fly according to EN 13501-6         None <td>Nominal cross section conductor</td> <td>mm²</td> <td>0.5</td>	Nominal cross section conductor	mm²	0.5
Number of coxes         5           Number of stranding elements         5           Core insulation material         Peris           Specification core insulation         Other           Core insulation material         Foll           Stranding element         Foll           Core insulation         Bundle           Stranding         Bundle           Stream over stranding element         Poll           Stream over stranding         None           Longitudinal water blocking cable         Yes           Protective sheath         Yes           Protective sheath         Polyvinyl chloride (PVC)           Amounting         Polyvinyl chloride (PVC)           Material outer sheath         Green           Specification material outer sheath         Green           Colour outer sheath         None           Specification stranging depoleration to EN 13501-6         None           Euro class according to EN 13501-6	AWG-size		20
Number of stranding elements         5           Stranding elements         Pairs           Core insulation material         Cher           Scene on insulation         Cher           Core identification         Colour           Screen over stranding element         Foli           Screen over stranding element         Bundle           Screen over stranding         Nane           Longitudinal water blocking cable         Yes           Protective should be all witer blocking cable         Yes           Armouring         Polywinyl chloride (PVC)           Armouring         Polypropried           Armouring and the should be all strands and strain all cuter should be all strands and strain all strands all strains and strain all strains all strains all strains and strain all strains	Conductor category		Class 2 = stranded
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 <td>Number of cores</td> <td></td> <td>5</td>	Number of cores		5
Core insulation material         Chore           Spacification core insulation         Colour           Core identification         Foil           Stream over stranding dement         Foil           Screen over stranding         None           Longitudinal water blocking cable         Yes           Protective sheath         Yes           Armouring         No           Attending outer sheath         Polyproprieme           Armouring         Polyproprieme           Attending outer sheath         Polyproprieme           Colour outer sheath         Polyproprieme           Colour outer sheath         Polyproprieme           Colour outer sheath         Polyproprieme           Colour outer sheath         Polyproprieme           Reaction-1s-fire class according to EN 13501-6         None           Reaction-1s-fire class according to EN 13501-6         None           Euro class affaming droplets/particles according to EN 13501-6         None           Euro class affaming droplets/particles according to EN 13501-6         None           Euro class affaming droplets/particles according to EN 13501-6         None           Halogen free (acc. EK 60054-2)         No           Low smoke (acc. EK 60054-2)         No           Oul restant (acc. EK 60	Number of stranding elements		5
Specification core insulation         Che identification           Core identification         Colour           Screen over stranding element         Fol           Screen over stranding         None           Screen over stranding         None           Longitudinal water blocking cable         Yes           Radial water blocking cable         Yes           Armouring         None           Armouring         None           Meterial outer sheath         Polyvinyl chloride (PVC)           Specification material outer sheath         Yes           Resction-to-fire class according to EN 13501-6         Yes           Resction-to-fire class according to EN 13501-6         Yes           Such development class according to EN 13501-6         Yes           Euro class acidity according to EN 13501-6         Yes <td>Stranding element</td> <td></td> <td>Pairs</td>	Stranding element		Pairs
Core identification         Colour           Screen over stranding element         Foil           Streading         Mone           Screen over stranding         None           Longitudinal water blocking cable         Yes           Radial water blocking cable         Yes           Protective sheath         Yes           Armouring         Polywinyl chloride (PVC)           Specification material outer sheath         Yes           Specification strateal outer sheath         Yes           Colour outer sheath         Yes           Specification strateal outer sheath         Yes           Colour outer sheath         Yes           Specification strateal outer sheath         Yes           Specification strateal outer sheath         Yes           Specification strateal outer sheath         Yes           Colour outer sheath         Yes           Reactions of the facilisas according to EN 13501-6         Yes           Euro class faming droplets/particles according to EN 13501-8         Yes           Euro class accidity according to EN 13501-8         Yes           Euro class 4 1252-12         None           Low smoke fee (acc. EX 6054-12)         Yes           Low smoke fee (EX EX 6054-12)         Yes           <	Core insulation material		
Screen over stranding element         Foil           Stranding         Bundle           Screen over stranding         None           Longitudinal water blocking cable         Yes           Radial water blocking cable         Yes           Radial water blocking cable         Yes           Armouring         None           Material outer sheath         Polyviny Ichioride [PVC]           Scelicification material outer sheath         Polyviny Ichioride [PVC]           Scelicification material outer sheath         Polyviny Ichioride [PVC]           Scelicification material outer sheath         Polyviny Ichioride [PVC]           Reaction-to-fire class according to EN 13501-6         Yes           Smoke development class according to EN 13501-6         None           Euro class family according to EN 13501-6         None           Euro class family according to EN 13501-6         None           Euro class acidity according to EN 13501-6         None           Euro class acidity according to EN 13501-6         None           Euro class acidity according to EN 13501-6         None           Low smoke lace, EN 6054-1/2)         None           Halogen free (acc. EN 6054-1/2)         Yes           Low smoke lace, EN 6104-2         Yes           Low smoke lace, EN 61054-2	Specification core insulation		Other
Stranding         Bundle           Screen over stranding         None           Longitudinal water blocking cable         Yes           Radial water blocking cable         Yes           Protective sheath         Yes           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           Beaction-to-fire 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           Euro class acidity according to EN 13501-6         None           Euro class acidity according to EN 13501-6         None           Euro class (EC 60754-1/2)         None           Halogen free (acc. IEC 60754-1/2)         None           Low smoke (acc. IEC 60754-2)         No           Low smoke (acc. IEC 60764-2)         No           Oil resistant (acc. EN 60811-404)         Yes           Oil resistant (acc. IEC 60811-404)         Yes           Insulation integrity in accordance with IEC 60331         Yes           Circu	Core identification		Colour
Screen over stranding Longitudinal water blocking cable Radial water blocking cable Protective sheath Protective sheath Armouring Material outer sheath Specification material outer sheath Specification material outer sheath Colour outer sheath Reaction to-fire class according to EN 13501-6 Smoke development class according to EN 13501-6 Sure class flaming droplets/particles according to EN 13501-6 Sure class according to EN	Screen over stranding element		Foil
Longitudinal water blocking cable         Yes           Protective sheath         Yes           Armouring         No           Alterial outer sheath         Polyvinyl chloride (PVC)           Specification material outer sheath         Polypropylene           Colour outer sheath         Polypropylene           Reaction-to-fire class according to EN 13501-6         None           Smoke development class according to EN 13501-6         None           Euro class acidity according to EN 13501-6         None           Euro class acidity according to EN 13501-6         None           Euro class (Altinomy Complets/particles according to EN 13501-6         None           Euro class (Altinomy Condition (St.) (Altinomy Condition)         None           Euro class (Altinomy Condition)         None           Halogen free (acc. LEC 60754-12)         None           Halogen free (acc. LEC 60754-2)         No           Low smoke (acc. EN 61034-2)         No           Low smoke (acc. EN 61034-2)         No           Low smoke (acc. EN 6801-404)         Yes           Oil resistant (acc. EN 68081-404)         Yes	Stranding		Bundle
Radial water blocking cable Protective sheath Armouring Material outer sheath Armouring Material outer sheath Aspecification material outer sheath Specification material outer sheath Reaction-to-fire class according to EN 13501-6 Reaction-to-fire class according to EN 13501-6 Reaction-to-fire class according to EN 13501-6 Rownee development after assembling without vibration  Permitted dealle outer temperature during assembling without vibration  Permitted dealle outer temperature during assembling without vibration  Provinted cable outer temperature after assembling without vibration  Provinted cable outer temperature after assembling without vibration  Provinted dealle outer temperature after assembling without vibration  Provinted cable outer temperature a	Screen over stranding		None
Protective sheath Armouring Material outer sheath Armouring Material outer sheath Specification material outer sheath Colour outer sheath Colour outer sheath Colour outer sheath Colour outer sheath Reaction-to-fire class according to EN 13501-6 Reaction-to-fire class according to EN 13501-6 Reaction-to-fire class according to EN 13501-6 Ruro class flaming droplets/particles according to EN 13501-6 Ruro class acidity according to EN 13501-6 Ruro class flaming droplets/particles according to EN 13501-6 Ruro class flaming droplets/particles according to EN 13501-6 Ruro class acidity according to EN 13501-6 Ruro class flaming droplets/particles according to EN 13501-6 Ruro class acidity according to EN 13501-6 Ruro class acidity according to EN 13501-6 Ruro class acidity according to EN 13501-6 Ruro class flaming droplets/particles according to EN 13501-6 Ruro class acidity according to EN 13501-6 Ruro class flaming droplets/particles according to EN 13501-6 Ruro according to EN 13501-6 Ruro class flaming droplets/particles according to EN 13	Longitudinal water blocking cable		Yes
Amouring Naterial outer sheath Specification material outer sheath Colour outer sheath Colour outer sheath Colour outer sheath Reaction-to-fire class according to EN 13501-6 Romand development class according to EN 13501-6 Smoke development class according to EN 13501-6 Smoke development class according to EN 13501-6 Euro class flaming droplets/perticles according to EN 13501-6  None	Radial water blocking cable		Yes
Material outer sheath  Specification material outer sheath  Colour outer sheath  Colour outer sheath  Reaction-to-fire class according to EN 13501-6  Smoke development class according to EN 13501-6  Euro class flaming droplets/particles according to EN 13501-6  Euro class acidify according to EN 13501-6  Halogen free (acc. EN 6075-1/2)  Halogen free (acc. EN 6075-2)  Halogen free (acc. EN 6075-2)  No  Colour saitant (acc. EN 61034-2)  Low smoke (acc. EN 61034-2)  Low smoke (acc. EN 60811-404)  Di resistant (acc. EN 60811-404)  In substoin integrity in accordance with IEC 60331  Circuit integrity in accordance with IEC 60331  Circuit integrity in accordance with IEC 6031  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/free movement	Protective sheath		
Specification material outer sheath  Colour outer sheath  Reaction-to-fire class according to EN 13501-6  Smoke development class according to EN 13501-6  Smoke development class according to EN 13501-6  Euro class flaming droplets/particles according to EN 13501-6  Euro class acidity according to EN 13501-6  Euro class acidity according to EN 13501-6  Euro class acidity according to EN 13501-6  Hologen free (acc. EN 60754-1/2)  Hologen free (acc. EN 60754-2)  Hologen free (acc. ELC 60754-2)  Hologen free (acc. ELC 60754-2)  Hologen free (acc. EN 61034-2)  Low smoke (acc. EN 61034-2)  Low smoke (acc. EN 61034-2)  Oil resistant (acc. EN 60811-404)  Oil resistant (acc. EN 60811-404)  For institut (acc. EN 60811-404)  Circuit integrity in accordance with IEC 60331  Circuit integrity in accordance with IEC 60331  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/permanent installation  Permitted cable outer temperature during assembling/handling  Permitted cable outer temperature during assembling without vibration  Promitted cable outer temperature after asse	Armouring		No
Colour outer sheath Reaction-to-fire class according to EN 13501-6 Smoke development class according to EN 13501-6 Euro class flaming droplets/particles according to EN 13501-6 Euro class acidity according to EN 13501-6 Euro class acidity according to EN 13501-6 Halogen free (acc. EN 60754-1/2) Halogen free (acc. EN 60754-1/2) Halogen free (acc. EN 60754-2) Flame retardant Low smoke (acc. EN 61034-2) Low smoke (acc. EN 61034-2) Low smoke (acc. EN 60811-404) Oil resistant (acc. EN 60811-404) Oil resistant (acc. EN 60811-404) Circuit integrity in accordance with IEC 60331 Circuit integrity in accordance with IEC 60331 Min. permitted bending radius, moving application/permanent installation Min. permitted bending radius, moving application/permanent installation Min. permitted bending radius, stationary application/permanent installation Permitted cable outer temperature during assembling/handling Permitted cable outer temperature after assembling without vibration  Circuit integrity on accordance without temperature after assembling without vibration  Reaction-to-fire diameter approx.  Min. permitted bending radius, stationary application/permanent installation  mm  46  Min. permitted cable outer temperature during assembling/handling  Circuit integrative  Min. permitted bending radius, stationary application/permanent installation  mm  46  Min. permitted bending radius, stationary application/permanent installation  mm  46  Min. permitted bending radius, stationary application/permanent installation  mm  46  Min. permitted bending radius, stationary application/permanent installation  mm  46  Min. permitted bending radius, stationary application/permanent installation  mm  46  Min. permitted bending radius, stationary application/permanent installation  mm  46  Min. permitted bending radius, stationary application/permanent installation  mm  47  48  49  40  40  40  40  40  40  40  40  40	Material outer sheath		Polyvinyl chloride (PVC)
Reaction-to-fire class according to EN 13501-6 Smoke development class according to EN 13501-6 Euro class flaming droplets/particles according to EN 13501-6 Euro class acidity according to EN 13501-6 Halogen free (acc. EN 60754-1/2) Halogen free (acc. EC 60754-2) Halogen free (acc. EC 60754-2)  Halogen free (acc. EC 60754-2)  Ho  Ro  Ro  Ro  Ro  Ro  Ro  Ro  Ro  Ro	Specification material outer sheath		Polypropylene
Sincke development class according to EN 13501-6  Euro class flaming droplets/particles according to EN 13501-6  Euro class acidity according to EN 13501-6  Halogen free (acc. EN 60754-1/2)  Halogen free (acc. EN 60754-2)  Halogen free (acc. EK 60754-2)  Flame retardant  Low smoke (acc. EN 61034-2)  Low smoke (acc. EN 61034-2)  Low smoke (acc. EN 61034-2)  Oil resistant (acc. EN 6011-404)  Oil resistant (acc. EN 60011-404)  Flame retardance with IEC 60331  Circuit integrity in accordance with IEC 60331  Circuit integrity in accordance with IEC 60331  Min. permitted bending radius, moving application with forced guidance  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/permanent installation  Min. permitted bending radius, stationary application/permanent installation  mm  Min. permitted cable outer temperature during assembling/handling  C	Colour outer sheath		Green
Euro class flaming droplets/particles according to EN 13501-6  Euro class acidity according to EN 13501-6  Halogen free (acc. EN 60754-1/2)  Halogen free (acc. EN 60754-2)  Halogen free (acc. EN 60754-2)  Flame retardant  Low smoke (acc. EN 61034-2)  Low smoke (acc. EN 61034-2)  Low smoke (acc. EN 61034-2)  Oil resistant (acc. EN 601034-2)  Oil resistant (acc. EN 6011-404)  Oil resistant (acc. EN 6011-404)  Insulation integrity in accordance with IEC 60331  Circuit integrity  Outer diameter approx.  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/free movement  Min. permitted bending radius, stationary application/permanent installation  Permitted cable outer temperature during assembling/handling  Permitted cable outer temperature during assembling without vibration  None  None  No  No  No  No  No  No  No  No  No  N	Reaction-to-fire class according to EN 13501-6		None
Euro class acidity according to EN 13501-6 Halogen free (acc. EN 60754-1/2) Halogen free (acc. IEC 60754-2) No Halogen free (acc. IEC 60754-2) No Halogen free (acc. IEC 60754-2) In accordance with EN 60332-1-2 Low smoke (acc. EN 61034-2) No Low smoke (acc. EN 61034-2) No Oil resistant (acc. IEC 61034-2) Ves Oil resistant (acc. IEC 60811-404) Ves Insulation integrity in accordance with IEC 60331 No Circuit integrity No Outer diameter approx. Min. permitted bending radius, moving application with forced guidance Min. permitted bending radius, moving application/free movement Min. permitted bending radius, moving application/permanent installation Min. permitted cable outer temperature during assembling/handling C	Smoke development class according to EN 13501-6		None
Halogen free (acc. EK 60754-1/2)  Halogen free (acc. IEC 60754-2)  Ho accordance with EN 60332-1-2  No  Low smoke (acc. EN 61034-2)  No  Oil resistant (acc. IEC 61034-2)  Ves  Insulation integrity in accordance with IEC 60331  Circuit integrity  Outer diameter approx.  Min. permitted bending radius, moving application with forced guidance  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, svationary application/free movement  Min. permitted bending radius, svationary application/permanent installation  Min. permitted bending radius, svationary application/permanent installation  Permitted cable outer temperature during assembling/handling  C avo 80  -40 -80  -80  -80  -80  -80  -80  -80  -80	Euro class flaming droplets/particles according to EN 13501-6		None
Halogen free (acc. IEC 60754-2) Flame retardant Low smoke (acc. EN 61034-2) Low smoke (acc. EN 61034-2) No Coll resistant (acc. EN 60811-404) Ves Coll resistant (acc. IEC 60811-404) Ves Clir cuit integrity in accordance with IEC 60331 Circuit integrity in accordance with IEC 60331 Circuit integrity	Euro class acidity according to EN 13501-6		None
Flame retardant Low smoke (acc. EN 61034-2) Low smoke (acc. EN 61034-2) No Core smoke (acc. EN 60811-404) Oil resistant (acc. EN 60811-404)  No Circuit integrity in accordance with IEC 60331 Circuit integrity Outer diameter approx.  Min. permitted bending radius, moving application with forced guidance Min. permitted bending radius, moving application/free movement Min. permitted bending radius, stationary application/permanent installation Min. permitted cable outer temperature during assembling/handling Permitted cable outer temperature after assembling without vibration  "C 40 - 80  - 40 - 80	Halogen free (acc. EN 60754-1/2)		No
Low smoke (acc. EN 61034-2)  Low smoke (acc. IEC 61034-2)  Oil resistant (acc. EN 60811-404)  Oil resistant (acc. IEC 60811-404)  Insulation integrity in accordance with IEC 60331  Circuit integrity  Outer diameter approx.  Min. permitted bending radius, moving application with forced guidance  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/free movement  Min. permitted bending radius, stationary application/free movement  Min. permitted bending radius, stationary application/free movement  Min. permitted cable outer temperature during assembling/handling  Permitted cable outer temperature after assembling without vibration  No  Ado 8	Halogen free (acc. IEC 60754-2)		No
Low smoke (acc. IEC 61034-2)  Oil resistant (acc. EN 60811-404)  Oil resistant (acc. IEC 60811-404)  Ves  Insulation integrity in accordance with IEC 60331  Circuit integrity  Outer diameter approx.  Min. permitted bending radius, moving application with forced guidance  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/permanent installation  Min. permitted cable outer temperature during assembling/handling  Permitted cable outer temperature after assembling without vibration  No  No  46  A0 - 80  A0 - 80	Flame retardant		In accordance with EN 60332-1-2
Oil resistant (acc. EN 60811-404)  Oil resistant (acc. IEC 60811-404)  Insulation integrity in accordance with IEC 60331  Circuit integrity  No  Outer diameter approx.  mm 46  Min. permitted bending radius, moving application with forced guidance  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/permanent installation  Min. permitted cable outer temperature during assembling/handling  Permitted cable outer temperature after assembling without vibration  Permitted cable outer temperature after assembli	Low smoke (acc. EN 61034-2)		No
Oil resistant (acc. IEC 60811-404)  Insulation integrity in accordance with IEC 60331  Circuit integrity  Outer diameter approx.  Min. permitted bending radius, moving application with forced guidance  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/permanent installation  Mermitted bending radius, stationary application/permanent installation  Permitted cable outer temperature during assembling/handling  Permitted cable outer temperature after assembling without vibration  Yes  No  No  46  A  40  40  40  40  40  40  40  40  40	Low smoke (acc. IEC 61034-2)		No
Insulation integrity in accordance with IEC 60331  Circuit integrity  No  Outer diameter approx.  Min. permitted bending radius, moving application with forced guidance  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/permanent installation  Min. permitted cable outer temperature during assembling/handling  Permitted cable outer temperature after assembling without vibration  No  mm  46  46  40 - 80  Permitted cable outer temperature after assembling without vibration  C - 40 - 80	Oil resistant (acc. EN 60811-404)		Yes
Circuit integrity  No Outer diameter approx.  mm 5.6  Min. permitted bending radius, moving application with forced guidance 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 C -40 - 80  Permitted cable outer temperature after assembling without vibration c C -40 - 80	Oil resistant (acc. IEC 60811-404)		Yes
Outer diameter approx.  Min. permitted bending radius, moving application with forced guidance  Min. permitted bending radius, moving application/free movement  Min. permitted bending radius, stationary application/permanent installation  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	Insulation integrity in accordance with IEC 60331		No
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	Circuit integrity		No
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	Outer diameter approx.	mm	5.6
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