

## **EXACT12 SAFETY, FIX. CABLE, P1-4 M12 5POLE LED,**

P5-8 M12 4/3-pol 1:1 no LED, 5m PUR/PVC

8-way, 5-pole PUR/PVC

Homerun cable with spring clamp terminals

5.0 m

4-/3-pole

Further cable lengths on request.

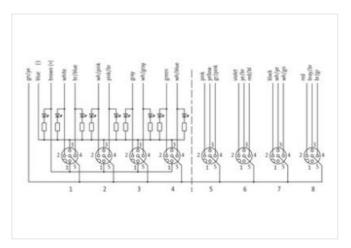
Plastic housings with good resistance against chemicals and oils.

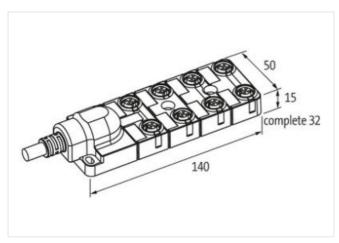
The resistance to aggressive media should be individually tested for your application. Further details on request.

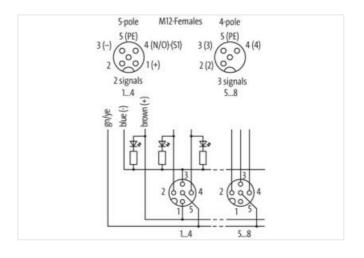
## **Link to Product**

## Illustration









Product may differ from Image









## Commercial data

ECLASS-6.0 27143423 ECLASS-6.1 27279219



stay connected	stay	connected
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ECLASS-7.0	27279219
ECLASS-8.0	27279219
ECLASS-9.0	27440108
ECLASS-10.1	27440108
ECLASS-11.1	27440108
ECLASS-12.0	27440108
ETIM-5.0	EC002585
customs tariff number	85444290
GTIN	4048879053563
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Device protection   Media	
Flame resistance	flame retardant
Mechanical data   Material data	
Material housing	Plastic
	Plastic
Mechanical data   Mounting data	
Mounting method	Schraubgewinde
Environmental characteristics   Climatic	
Operating temperature min.	-20 °C
Operating temperature max.	60 °C
Additional condition temperature range	depending on cable quality
Installation   Cable	
Cable identification	407
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	9 wires around Core filler twisted
Amount stranding (type 2)	1
Stranding (type 2)	14 wires around Stranding combination twisted
Filler	yes
wire arrangement	green, red-blue, white, gray-pink, yellow-white, gray, brown-green, yellow, green-white, (brown, blue, green-yellow, brown-blue, blue-white, brown-pink, white-pink, violet, brown-gray, black, gray-white, red, brown-yellow, pink)
Material jacket	TPE-U
Shore hardness jacket	85 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Outer-diameter (jacket)	9,9 mm
Tolerance outer diameter (sheath)	±5%
Material inner jacket	PVC
Color (inner jacket)	gray
Material wire insulation	PVC
Amount wires	20
Outer diameter insulation	1,27 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	60 ± 5 Shore D

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-21



stay connected

Amount viers (Data) 3 Amount stands wire (Data) 96 Diameter of single wires (Data) 0,1 mm Conductor crosssection wire (Data) 0,75 mm² Material conductor vipe (Data) strande copper wire, bare Wire conductor vipe (Data) strand class 6 Max. rated voltage (conductor - conductor) 300 V Current load capacity (standard) to DIN VDE 0298 4 Current load capacity (standard) to DIN VDE 0298 4 Current load capacity min. Wire (Data) 12 A Electrical function wire Signal Electrical function wire Signal Electrical function wire Signal Electrical resistance in constant wire 5 7 Ωkm @ 20 °C Electrical resistance coating wire (Data) 26 Rkm @ 20 °C Electrical resistance or oating wire signal wire signal strand voltage (wire - wire) 3 kV @ 60 s Min. operating temperature max. (kryamic) 40 °C Max. operating temperature max. (kryamic) 50 °C Operating temperature max. (kryamic) 80 °C Operating temperature max. (kryamic) 80 °C Coerating temperature max. (kryamic) 80 °C Coerating temperature max. (kryamic) 80 °C Electrical resistance Good, application-related testing Gasoline resistance Good, application-related testing Color application-related testing Color (septing adus (kryamic) 10 × Outer diameter Bending radius (kryamic) 10 × Outer diameter Bending radius (kryamic) 10 × Outer diameter Family construction form free cable end No. of poles Family construction form free cable end No. of poles Family construction form free cable end Color oplose Family construction form free cable end No. of poles PiN 2 PiN 3 S = Pi		
Controlled crossection (wire)   O. A. min'		
Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         Strand class 5           Electrical function wire insulation (Data)         PP           Outer disurder wire insulation (polata)         1,83 mm           Toldination color disurder wire insulation (clasta)         69 ± 5 Store D           Toldination vire insulation (Data)         69 ± 5 Store D           Impredient freeness wire insulation (Data)         69 ± 5 Store D           Impredient freeness wire insulation (Data)         3           Amount wires (Data)         3           Amount wires (Data)         0,7 5 sm²           Dameter of single wires (Data)         0,7 5 sm²           Material conductor wire (Data)         5 mm²           Material conductor wire (Data)         5 mm²           Material conductor wire (Data)         5 mm²           Max. rated voltage (conductor - conductor)         300 V           Quarrent load capacity vires, wire         4 A           Courrent load capacity vires, wire         4 A           Courrent load capacity vires, wire         5 C Amre (20 C           Electrical resistance in constant wire         5 C D Amre (20 C           Electrical resistance in constant wire         5 C D Amre (20 C           Electrical resistance in constant wire         5 C D Amre (		·
Electrical function wire   Signal		·
Electrical function were   Signal		., .
Material wire insulation (Data)         PP           Outer dismeter wire insulation (Data)         1,88 mm           Tolerance outer dismeter wire insulation (Data)         6 ± 5 Shore D           Shore hardness wire insulation (Data)         6 ± 5 Shore D           Unprofient Freness were insulation (Data)         6 ± 5 Shore D           Importance for large wire (Data)         9 €           Amount strands were (Data)         9 €           Damafeor of single wires (Data)         0,75 mm²           Damafeor of single wires (Data)         0,75 mm²           Wire conductor type (Data)         strand capset (Pata)           Wire conductor type (Data)         strand capset (Pata)           Was conductor type (Data)         strand capset (Pata)           Value (Current tool capset) wire (Data)         12 A           Electrical Introdor wire         Signal           Electrical Introdor wire         Signal           Electrical resistance in uso capset (Pata)         57 Q Xm @ 20 °C           Counted to viries (Pata)         31 V @ 60 s		
Outer diameter wire insolation (Data)         1,83 mm           Tolerance outer diameter wire insulation (Data)         5 %           Shore hardness wire insulation (Data)         60 ± 5 Shore D           Ingredient freeness wire insulation (Data)         60 ± 5 Shore D           Amount streads wire (Data)         96           Diameter of single wires (Data)         96           Diameter of single wires (Data)         0,1 mm           Octobuctor crossescion wire (Data)         Stranded cooper wire, bare           Wire conductor by (Potta)         Stranded cooper wire, bare           Mex. rated voltage (conductor - conductor)         300 V           Mex. rated voltage (conductor - conductor)         300 V           Current bad capacity (standard)         10 IN VE 0288-4           Current bad capacity frim. wire         4 A           Current bad capacity min. Wire (Data)         12 A           Electrical function wire         Signal           Electrical resistance ocaling wire (Data)         26 Oxme @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency (fished or wire)         3 kV @ 60 s           Max. operating temperature (stratc)         40 °C           Max. operating temperature (fished)         50 °C           Operating temperature (fished)	Electrical function wire	
Toterance outer diameter wire insulation (Data)         £ 5 % Shore Indirected wire insulation (Data)           Shore hardness wire insulation (Data)         80 ± 5 Shore D Ingredient freeness wire insulation (Data)           Amount wires (Data)         3           Amount wires (Data)         0.1 mm           Conductor crosssection wire (Data)         0.7 mm²           Conductor crosssection wire (Data)         0.75 mm²           Makerial conductor wire (Data)         5 strand class 6           Wire conductor type (Data)         strand class 6           Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         10 DN VDE 0298-4           Current load capacity (standard)         10 DN VDE 0298-4           Current load capacity (standard)         12 A           Electrical resistance line constant wire         57 (Shri @ 20 °°C           Electrical resistance (conting wire (Data)         26 Ωkm @ 20 °°C           Electrical resistance (conting wire (Data)         26 Ωkm @ 20 °°C           Power (respuency withsland voltage (wire - picket)         3 kV @ 60 s           Min. operating temperature (static)         40 °°C           Max. operating temperature (max)         50 °°C           Operating temperature (max)         5		
Shore hardness wire insulation (Data)   60 ± 5 Shore D	` ,	7
Ingredient freeness wire insulation (Data)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free		±5%
Amount viers (Data) 3 Amount stands wire (Data) 96 Diameter of single wires (Data) 0,1 mm Conductor crosssection wire (Data) 0,75 mm² Material conductor vipe (Data) strande copper wire, bare Wire conductor vipe (Data) strand class 6 Max. rated voltage (conductor - conductor) 300 V Current load capacity (standard) to DIN VDE 0298 4 Current load capacity (standard) to DIN VDE 0298 4 Current load capacity min. Wire (Data) 12 A Electrical function wire Signal Electrical function wire Signal Electrical function wire Signal Electrical resistance in constant wire 5 7 Ωkm @ 20 °C Electrical resistance coating wire (Data) 26 Rkm @ 20 °C Electrical resistance or oating wire signal wire signal strand voltage (wire - wire) 3 kV @ 60 s Min. operating temperature max. (kryamic) 40 °C Max. operating temperature max. (kryamic) 50 °C Operating temperature max. (kryamic) 80 °C Operating temperature max. (kryamic) 80 °C Coerating temperature max. (kryamic) 80 °C Coerating temperature max. (kryamic) 80 °C Electrical resistance Good, application-related testing Gasoline resistance Good, application-related testing Color application-related testing Color (septing adus (kryamic) 10 × Outer diameter Bending radius (kryamic) 10 × Outer diameter Bending radius (kryamic) 10 × Outer diameter Family construction form free cable end No. of poles Family construction form free cable end No. of poles Family construction form free cable end Color oplose Family construction form free cable end No. of poles PiN 2 PiN 3 S = Pi	Shore hardness wire insulation (Data)	60 ± 5 Shore D
Amount strands wine (Data) 96 Diameter of single wines (Data) 0,1 mm  Onthoder or of single wines (Data) 0,7 mm² Material conductor were (Data) Stranded copper wire, bare  Wire conductor type (Data) strand class 6  Wire conductor (ype (Data) strand class 6  Wire conductor (ype (Data) strand class 6  Max. raded voltage (conductor - conductor) 300 V  Max. raded voltage (conductor - conductor) 500 V  Current load capacity (standard) to DIN VDE 0298 4  Current load capacity min. wire 4 A  Current load capacity min. wire 4 A  Current load capacity min. wire 57 (Dikm @ 20 °C  Electrical function wire 57 (Dikm @ 20 °C  Electrical resistance coating wire (Data) 12 A  Electrical resistance coating wire (Data) 26 (Dikm @ 20 °C  Electrical resistance ocating wire (Data) 26 (Dikm @ 20 °C  Electrical resistance vire (Electrical resistance ocating wire (Data) 26 (Dikm @ 20 °C  Ac withstand voltage (wire - wire 3 kV @ 60 s  Fower frequency withstand voltage (wire - wire 3 kV @ 60 s  Fower frequency withstand voltage (wire - wire 3 kV @ 60 s  Electrical resistance coating wire (Data) 3 kV @ 60 s  Fower frequency withstand voltage (wire - wire 3 kV @ 60 s  Bornal resistance (Electrical resistance ocating wire (Data) 3 kV @ 60 s  Correcting temperature min. (dynamic) 40 °C  Max. operating temperature min. (dynamic) 5 °C  Operating temperature min. (dynamic) 6 °C  Operating temperature min. (dynamic) 7 °C  Gasoline resistance Good, application-related testing 1 DIN EN 60811-404  Bending radius (installation) 5 × Outer diameter  Bending radius (installation) 10 × Outer diameter  Family construction form free cable end  No. of poiles (C-track) 1, 8 m @ 25 °C  Traveriang distance (C-track) 1, 8 m @ 25 °C  Connection type 3  Family construction form Min 2  Gender 6  Good, application-related feeting 10 min Electrical 10 min Electrical 10 min Electrical 10 min Electrical 10 min Elect	Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires (Data)         0,1 mm           Conductor crosssection wire (Data)         N75 mm²           Microdictor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Max. rated voltage (conductor - conductor)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         12 A           Current load capacity min. Wire (Data)         12 A           Electrical resistance line constant wire         57 Qikm @ 20 °C           Electrical resistance coating wire (Data)         25 Qikm @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - wire)         40 °C           Max. operating temperature (static)         40 °C           Max. operating temperature mix. (dynamic)         5° C           Operating temperature mix. (dynamic)         5° C           Operating temperature mix. (dynamic)         6° C           Flame resistance         UL 1581 § 1909   UL 1581 § 1100 FT2   EC 60332 2-2.           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing	Amount wires (Data)	3
Conductor crosssection wire (Data)         0,75 mm²           Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4 A           Current load capacity min. wire (Data)         12 A           Electrical resistance line constant wire         Signal           Electrical resistance line constant wire         57 Ωkm @ 20 °C           Electrical resistance line constant wire         3 kV @ 60 s           Electrical resistance line constant wire         3 kV @ 60 s           Power froquency withstand voltage (wire - wire)         3 kV @ 60 s           AC withstand voltage (wire - wire)         3 kV @ 60 s           Min. operating temperature (fixed)         40 °C           Max. operating temperature mix. (dynamic)         5° °C           Operating temperature mix. (dynamic)         5° °C           Operating temperature mix. (dynamic)         5° °C           Gasoline resistance         Good, application-related testing           Giv resistance         Good, application-related testing	Amount strands wire (Data)	96
Material conductor wire (Data)         Stranded copper wire, bare           Wire conductor type (Data)         strand class 6           Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         12 A           Electrical resistance paper min. Wire (Data)         12 A           Electrical resistance ine constant wire         Signal           Electrical resistance coating wire (Data)         26 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         26 Ω/km @ 20 °C           Electrical resistance voltage (wire - gacket)         3 kV @ 60 s           Power frequency withstand voltage (wire - gacket)         3 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (static)         80 °C           Operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           Filman resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 x Outer diameter	Diameter of single wires (Data)	0,1 mm
Wire conductor type (Data)         strand class 6           Max. rated voltage (conductor - conductor)         300 V           Current load capacity (standard)         to DIN VDE 0298 4           Current load capacity min. wire         4 A           Current load capacity min. wire (Data)         12 A           Electrical function wire         Signal           Electrical resistance line constant wire         57 0/km @ 20 °C           Electrical resistance coaling wire (Data)         25 0/km @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - wire)         3 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           Pismer resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-22           chemical resistance         Good. application-related testing           Gasoline resistance         Good. application-related testing           Gli resistance         Good. application-related testing           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 x Outer diameter           N	Conductor crosssection wire (Data)	0,75 mm²
Max. rated voltage (conductor - ground)         300 V           Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire         4 A           Current load capacity min. Wire (Data)         12 A           Electrical resistance line constant wire         57 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         26 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - yiacket)         3 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Max. operating temperature (fixed)         80 °C           Operating temperature (fixed)         80 °C           Param resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Bending radius (fixed)         x Outer diameter           Bending radius (fixed)         x Outer diameter           Bending radius (great)         5 x Outer diameter	Material conductor wire (Data)	Stranded copper wire, bare
Max. rated voltage (conductor - ground)         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. Wire (Data)         4 A           Current load capacity min. Wire (Data)         12 A           Electrical function wire         Signal           Electrical resistance coating wire (Data)         25 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - wire)         3 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         80 °C           Operating temperature max. (dynamic)         80 °C           Operating temperature max. (dynamic)         80 °C           Plane resistance         Good. application-related testing           Gasoline resistance         Good. application-related testing           Oil resistance         Good. application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (installation)         x Outer diameter           Bending radius (gynamic)         10 x Outer diameter           Bending radius (g	Wire conductor type (Data)	strand class 6
Current load capacity (standard)         10 DN VDE 0298-4           Current load capacity min. wire         4 A           Current load capacity min. wire         4 A           Current load capacity min. Wire (Data)         12 A           Electrical function wire         Signal           Electrical resistance constant wire         57 Ωkm @ 20 °C           Electrical resistance line constant wire         3 kV @ 60 s           Power frequency withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - wire)         3 kV @ 60 s           Min. operating temperature (fixed)         40 °C           Max. operating temperature (fixed)         50 °C           Operating temperature max. (dynamic)         80 °C           Operating temperature max. (dynamic)         80 °C           Flame resistance         Good. application-related testing           Colin resistance         Good. application-related testing           Oil resistance         Good. application-related testing           Oil resistance         Good. application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (fixed)	Max. rated voltage (conductor - conductor)	300 V
Current load capacity min. wire         4 A           Current load capacity min. Wire (Data)         12 A           Electrical function wire         Signal           Electrical resistance line constant wire         57 Okm @ 20 °C           Electrical resistance coating wire (Data)         26 Okm @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         3 kV @ 60 s           Min. operating temperature (fixed)         80 °C           Operating temperature (wixed)         80 °C           Operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         -5 °C           Chamical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (maxiliation)         x Outer diameter           Bending radius (maxiliation)         10 x Outer diameter           Bending radius (maxiliation)         x Outer diameter           Bending radius (maxiliation)         x Outer diameter           Bending radius (maxiliation)         x Outer diameter           Traversing	Max. rated voltage (conductor - ground)	300 V
Current load capacity min. Wire (Data)         12 A           Electrical function wire         Signal           Electrical resistance line constant wire         57 Ωkm @ 20 °C           Electrical resistance coating wire (Data)         26 Ωkm @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - wire)         3 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         -5 °C           Operating temperature max. (dynamic)         -8 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Oil resistance         Good, application-related testing           Oil resistance (situate)         5 × Outer diameter           Bending radius (installation)         × Outer diameter           Bending radius (gynamic)         10 × Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Travers	Current load capacity (standard)	to DIN VDE 0298-4
Electrical function wire   Signal   Electrical resistance line constant wire   57 Ω/km @ 20 °C   Electrical resistance coating wire (Data)   26 Ω/km @ 20 °C   AC withstand voltage (wire - wire)   3 kV @ 60 s   Power frequency withstand voltage (wire - lacket)   3 kV @ 60 s   Power frequency withstand voltage (wire - lacket)   3 kV @ 60 s   Min. operating temperature (static)   -40 °C   Max. operating temperature (fixed)   80 °C   Operating temperature min. (dynamic)   -5 °C   Operating temperature max. (dynamic)   -5 °C   Operating temperature max. (dynamic)   80 °C   Flame resistance   UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2   chemical resistance   Good, application-related testing   Gasoline resistance   Good, application-related testing   Oli resistance   Good, application-related testing   Oli resistance   Good, application-related testing   Oli resistance   Good, application-related testing   DIN EN 60811-404   Bending radius (installation)   x Outer diameter   Bending radius (installation)   x Outer diameter   Bending radius (installation)   x Outer diameter   Bending radius (installation)   5 kTouter diameter   Bending radius (installation)   5 kTouter diameter   Bending radius (installation)   x Outer diameter   Bending radius (installation	Current load capacity min. wire	4 A
Electrical resistance line constant wire         57 Ω/km @ 20 °C           Electrical resistance coating wire (Data)         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         3 kV @ 60 s           Min. operating temperature (static)         40 °C           Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           Chemical resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Garding radius (fixed)         5 x Outer diameter           Bending radius (fixed)         5 kine, @ 25 °C           Traversing	Current load capacity min. Wire (Data)	12 A
Electrical resistance coating wire (Data)         26 Ω/km @ 20 °C           AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - iack)         3 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (ikeed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature min. (dynamic)         80 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Bending radius (dynamic)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Traversing distance (C-track)         5 Nio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Family construction form         free cable end           No. of poles         23           Family constru	Electrical function wire	Signal
AC withstand voltage (wire - wire)         3 kV @ 60 s           Power frequency withstand voltage (wire - jacket)         3 kV @ 60 s           Min. operating temperature (static)         -40 °C           Max. operating temperature (lixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (gynamic)         10 x Outer diameter           Bending radius (gynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Nio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           Connection type 3         2           Family construction form         free cable end           No. of poles         23           Family construction form         female <t< td=""><td>Electrical resistance line constant wire</td><td>57 Ω/km @ 20 °C</td></t<>	Electrical resistance line constant wire	57 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)         3 kV @ 60 s           jacket)         -40 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           Chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Traversing distance (C-track)         2 m/s @ 25 °C           Connection type 3           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A	Electrical resistance coating wire (Data)	26 Ω/km @ 20 °C
Serve 00	AC withstand voltage (wire - wire)	3 kV @ 60 s
Max. operating temperature (fixed)         80 °C           Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traver sing distance (C-track)         1.8 m @ 25 °C           Traver sing distance (C-track)         2 m/s @ 25 °C           Connection type 3           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2	Power frequency withstand voltage (wire - jacket)	3 kV @ 60 s
Operating temperature min. (dynamic)         -5 °C           Operating temperature max. (dynamic)         80 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traver sing distance (C-track)         1,8 m @ 25 °C           Traver sing distance (C-track)         2 m/s @ 25 °C           Connection type 3         Family construction form           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)         80 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Travel speed (C-track)         1,8 m @ 25 °C           Connection type 3         Family construction form           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3	Max. operating temperature (fixed)	80 °C
Operating temperature max. (dynamic)         80 °C           Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Travel speed (C-track)         1,8 m @ 25 °C           Connection type 3         Family construction form           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3	Operating temperature min. (dynamic)	-5 °C
Flame resistance         UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2           chemical resistance         Good, application-related testing           Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         1.8 m @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           Connection type 3         Family construction form           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		80 °C
Gasoline resistance         Good, application-related testing           Oil resistance         Good, application-related testing   DIN EN 60811-404           Bending radius (installation)         x Outer diameter           Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           Connection type 3         ***  Family construction form           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3	Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 1,8 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C  Connection type 3  Family construction form free cable end  No. of poles 23  Family construction form M12  Gender female  Color contact carrier yellow  Coding A  No. of poles 4  PIN 1 n.c.  PIN 2 2  PIN 3 3	chemical resistance	
Oil resistance Good, application-related testing   DIN EN 60811-404  Bending radius (installation) x Outer diameter  Bending radius (fixed) 5 x Outer diameter  Bending radius (dynamic) 10 x Outer diameter  No. of bending cycles (C-track) 5 Mio. @ 25 °C  Traversing distance (C-track) 1,8 m @ 25 °C  Travel speed (C-track) 2 m/s @ 25 °C  Connection type 3  Family construction form free cable end  No. of poles 23  Family construction form M12  Gender female  Color contact carrier yellow  Coding A  No. of poles 4  PIN 1 n.c.  PIN 2 2  PIN 3 3	Gasoline resistance	- 11
Bending radius (installation)  Bending radius (fixed)  S x Outer diameter  Bending radius (dynamic)  10 x Outer diameter  No. of bending cycles (C-track)  Traversing distance (C-track)  1,8 m @ 25 °C  Travel speed (C-track)  1,8 m @ 25 °C  Travel speed (C-track)  Travel	Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)         5 x Outer diameter           Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           Connection type 3           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
Bending radius (dynamic)         10 x Outer diameter           No. of bending cycles (C-track)         5 Mio. @ 25 °C           Traversing distance (C-track)         1,8 m @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           Connection type 3           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
No. of bending cycles (C-track) 5 Mio. @ 25 °C Traversing distance (C-track) 1,8 m @ 25 °C Travel speed (C-track) 2 m/s @ 25 °C  Connection type 3  Family construction form free cable end No. of poles 23  Family construction form M12  Gender female  Color contact carrier yellow  Coding A No. of poles 4  PIN 1 n.c.  PIN 2 2  PIN 3 3		
Traversing distance (C-track)         1,8 m @ 25 °C           Travel speed (C-track)         2 m/s @ 25 °C           Connection type 3           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
Travel speed (C-track)         2 m/s @ 25 °C           Connection type 3           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
Connection type 3           Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
Family construction form         free cable end           No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		21113@200
No. of poles         23           Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		free cable and
Family construction form         M12           Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
Gender         female           Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
Color contact carrier         yellow           Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
Coding         A           No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		
No. of poles         4           PIN 1         n.c.           PIN 2         2           PIN 3         3		<u>-</u>
PIN 1 n.c. PIN 2 2 PIN 3 3		
PIN 2     2       PIN 3     3		
PIN 3 3		
	PIN 2	2
PIN 4 4	PIN 3	3
	PIN 4	4

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-21



PIN 5	PE
Family construction form	M12
Gender	female
Color contact carrier	black
Coding	A
No. of poles	5
PIN 1	+
PIN 2	NC S 2
PIN 3	-
PIN 4	NO S 1
PIN 5	PE