

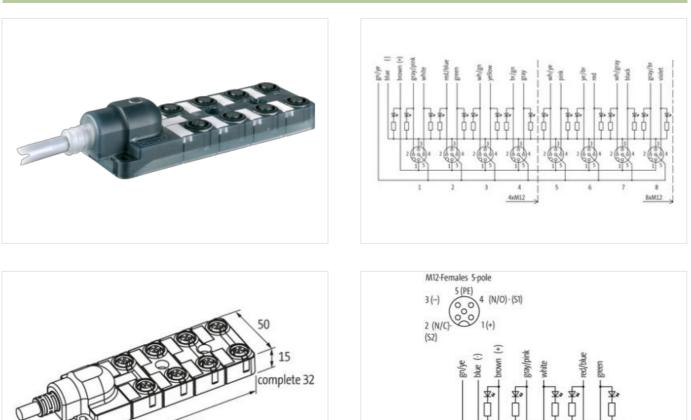
## EXACT12, 8XM12, 5-POLE, MOULDED CABLE

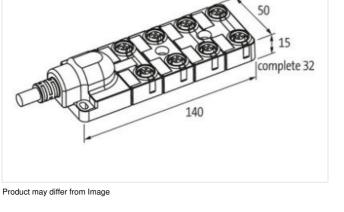
10.0m PUR 16x0,5+3x1,0, UL/CSA

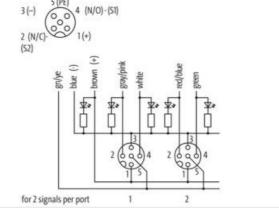
8-way, 5-pole 10.0 m Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product

Illustration









Commercial data		
ECLASS-6.0	27143423	
ECLASS-6.1	27279219	
ECLASS-7.0	27279219	
ECLASS-8.0	27279219	
ECLASS-9.0	27440108	

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ECLASS-10.1	27440108	
ECLASS-11.1	27440108	
ECLASS-12.0	27440108	
ETIM-5.0	EC002585	
customs tariff number	85444290	
GTIN	4048879053976	
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	
Mechanical data   Mounting data		
Mounting method	Schraubgewinde	
Environmental characteristics   Climatic		
Operating temperature min.	-20 °C	
Operating temperature max.	70 °C	
Additional condition temperature range	depending on cable quality	
Installation   Cable		
Installation   Cable Cable identification	452	
· · · ·	452 gray	
Cable identification		
Cable identification Jacket Color	gray	
Cable identification Jacket Color Type of Certificate	gray cURus	
Cable identification Jacket Color Type of Certificate Amount stranding	gray cURus 1	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding	gray cURus 1 7 wires around Core filler twisted	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2)	gray cURus 1 7 wires around Core filler twisted 1	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2)	gray cURus 1 7 wires around Core filler twisted 1 12 wires counter-rotating twisted	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Banding	gray cURus 1 7 wires around Core filler twisted 1 12 wires counter-rotating twisted Fleece	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Banding Filler	gray       cURus       1       7 wires around Core filler twisted       1       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Banding Filler wire arrangement	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket	gray       cURus       1       7 wires around Core filler twisted       1       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	gray       cURus       1       7 wires around Core filler twisted       1       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free	
Cable identification       Jacket Color       Type of Certificate       Amount stranding       Stranding       Amount stranding (type 2)       Stranding (type 2)       Banding       Filler       wire arrangement       Cable weigth       Material jacket       Shore hardness jacket       Freedom from ingredients (jacket)       Outer-diameter (jacket)	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm	
Cable identification       Jacket Color       Type of Certificate       Amount stranding       Stranding       Amount stranding (type 2)       Stranding       Filler       wire arrangement       Cable weigth       Material jacket       Shore hardness jacket       Freedom from ingredients (jacket)       Outer-diameter (jacket)       Tolerance outer diameter (sheath)	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %	
Cable identification       Jacket Color       Type of Certificate       Amount stranding       Stranding       Amount stranding (type 2)       Stranding       Filler       wire arrangement       Cable weigth       Material jacket       Shore hardness jacket       Freedom from ingredients (jacket)       Outer-diameter (jacket)       Tolerance outer diameter (sheath)       Material wire insulation	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %       TPE-E	
Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Banding Filler wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %       TPE-E       16	
Cable identificationJacket ColorType of CertificateAmount strandingStrandingAmount stranding (type 2)Stranding (type 2)BandingFillerwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter insulation	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown- yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %       TPE-E       16       1,6 mm	
Cable identificationJacket ColorType of CertificateAmount strandingStrandingAmount stranding (type 2)Stranding (type 2)BandingFillerwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationOuter diameter tolerance core insulation	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %       TPE-E       16       1,6 mm       ± 5 %	
Cable identificationJacket ColorType of CertificateAmount strandingStrandingAmount stranding (type 2)Stranding (type 2)BandingFillerwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulation	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %       TPE-E       16       1,6 mm       ± 5 %       55 ± 5 Shore D	
Cable identificationJacket ColorType of CertificateAmount strandingStrandingAmount stranding (type 2)Stranding (type 2)BandingFillerwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulation	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %       TPE-E       16       1,6 mm       ± 5 %       55 ± 5 Shore D       lead-free, CFC-free, halogen-free, LABS-free	
Cable identificationJacket ColorType of CertificateAmount strandingStrandingAmount stranding (type 2)Stranding (type 2)BandingFillerwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulationAmount strands (wire)	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %       TPE-E       16       1,6 mm       ± 5 %       55 ± 5 Shore D       lead-free, CFC-free, halogen-free, LABS-free       64	
Cable identificationJacket ColorType of CertificateAmount strandingStrandingAmount stranding (type 2)Stranding (type 2)BandingFillerwire arrangementCable weigthMaterial jacketShore hardness jacketFreedom from ingredients (jacket)Outer-diameter (jacket)Tolerance outer diameter (sheath)Material wire insulationAmount wiresOuter diameter tolerance core insulationShore hardness wire insulationIngredient freeness wire insulation	gray       cURus       1       7 wires around Core filler twisted       1       12 wires counter-rotating twisted       Fleece       yes       gray-pink, brown-green, yellow, green-white, green, red-blue, white, (brown-gray, black, gray-white, red, brown-yellow, pink, yellow-white, gray, blue, brown, green-yellow, violet)       231 g/m       PUR       94 ± 5 Shore A       lead-free, cadmium-free, CFC-free, halogen-free       11,5 mm       ± 5 %       TPE-E       16       1,6 mm       ± 5 %       55 ± 5 Shore D       lead-free, CFC-free, halogen-free, LABS-free	

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Conductor yape yawe)strand class 6Material wave insulation (Data)TPE EOuter diameter wave insulation (Data)2,1 mnTolerance outer diameter wave insulation (Data)55 * 5 Sone DIncrestefin treeress wave insulation (Data)15 * 5 Sone DIncrestefin treeress wave insulation (Data)128Dander of aingle waves (Data)0,1 mnConductor variable (Data)1 mm²Conductor consection wave (Data)1 mm²Material conductor variable (Data)1 mm²Conductor consection wave (Data)1 mm²Max ratid voltage (conductor - conductor)300 VCurrent total capacity (itamdard)10 DN VDE 0298.4Current total capacity (itamdard)10 DN VDE 0298.4Current total capacity (itamdard)20 DArw (20 °CContrent total capacity (itamdard)20 DArw (20 °CContrent total capacity (itamdard)20 DArw (20 °CContrent total capacity (itamdard)20 ArW (20 °CAC withstand voltage (wire - wire)24 V@ 60 sPower frequency withstand voltage (Wire - wire)24 V@ 60 sDorating tamperature (stati)40 °CAna. operating temperature (stati)90 °COperating temperature (stati)90 °COperating temperature (stati)90 °COperating temperature (stati)90 °COperating temperature (stati) <td< th=""><th>Material conductor wire</th><th>Stranded copper wire, bare</th></td<>	Material conductor wire	Stranded copper wire, bare
Oder diameter wire insulation (Data)       2.1 mm         Telerance outer diameter wire insulation (data)       55.2 Shror D         Ingredient teeness wire insulation (Data)       55.2 Shror D         Ingredient teeness wire insulation (Data)       18 end/free, halogen-free, silcone-free, LABS-free         Amount wire (Data)       3         Amount wire (Data)       11 mm         Concluctor crassescion wire (Data)       11 mm <sup>2</sup> Concluctor crassescion wire (Data)       Starded copper wire, bare         Material conductor wire (Data)       Starded copper wire, bare         Max: rated valtage (concluctor - ground)       300 V         Current Cas Capper (Stand)       to DIV VDE Co284.4         Current Cas Capper (Wire Vire)       5.9 A         Current Cas Capper (Wire Vire)       5.0 A         Current Cas Capper (Wire Vire)       5.0 A         Current Cas Capper (Wire Vire)       2.0 A/m @ 20 °C         Electrical resistance coating wire (Data)       2.0 A/m @ 20 °C         Corrent Cas Capper (Wire Vire)       2.1 V @ 60 s         Max. operating temperature (Wire)       2.1 V @ 60 s         Max. operating temperature (Wire)       2.1 V @ 60 s         Max. operating temperature (Word)       30 °C         Operating tempr	Conductor type (wire)	strand class 6
Tolerance wire insulation (data)       5 %         Shore handness wire insulation (Data)       55 ± 5 Shore D         Improdint Termses wire insulation (Data)       168 ± 5 Shore D         Amount strands wire (Data)       3         Damoter of single wires (Data)       0.1 mm         Canductor crisssection wire (Data)       1 mm <sup>2</sup> Marcal conductor wire (Data)       1 mm <sup>2</sup> Marcal conductor wire (Data)       1 mm <sup>2</sup> Marcal conductor wire (Data)       5 and close B         Max rated voltage (conductor - conductor)       300 V         Current load capacity (stinudard)       to DIN VDE 0288-4         Current load capacity (stinudard)       to DIN VDE 0288-4         Current load capacity (min. Wire (Data)       15 A         Electrical resistance line constant wire       39 D/tm @ 20 °C         Electrical resistance line constant wire       39 D/tm @ 20 °C         Corrent load capacity min. Wire (Data)       20 /tm @ 20 °C         Corrent load capacity min. Wire (Data)       20 /tm @ 20 °C         Corrent load capacity min. Wire (Data)       20 /tm @ 20 °C         Corrent load capacity min. Wire (Data)       20 /tm @ 20 °C         Corrent load capacity min. Wire (Data)       20 /tm @ 20 °C         Coreconc	Material wire insulation (Data)	TPE-E
Shore hardness wire insulation (Data)       65 ± 5 Shore D         ingredient freeness wire insulation (Data)       lead free, halogon free, silicone free, LABS free         Amount wires (Data)       128         Diameter of single wires (Data)       0.1 mm         Conductor crossection wire (Data)       Stranded coper wire, bare         Wire conductor yies (Data)       stranded class 6         Max, rated voltage (conductor - conductor)       300 V         Current load capacity (standard)       to DN VDE 6289.4         Current load capacity (standard)       20 DKm @ 20 °C         Electrical resistance sociality wire (Data)       20 DKm @ 20 °C         Electrical resistance sociality wire (Data)       20 DKm @ 20 °C         Ac withstand voltage (wire - wire)       24 VØ @ 60 s         Min. operating temperature (stac)       90 °C         Deparing te	Outer diameter wire insulation (Data)	2,1 mm
Ingredient freeness wire insulation (Data) lead-free, halogen-free, LABS-free Amount wires (Data) 3 Amount strads wire (Data) 0,1 mm Constructor twires (Data) 0,1 mm Constructor twire (Data) 0,1 mm Material conductor wire (Data) stranded copper wire, bare Wire conductor type (Data) stranded copper wire, bare Wire conductor type (Data) a trand class 6 Max, rated voltage (conductor - conductor) 300 V Carrent load capacity (standard) to DIN VDE 0298.4 Carrent load capacity (standard) to DIN VDE 0298.4 Carrent load capacity min. wire (Data) 15 A Electrical resistance solutions wire (Data) 20 GAm @ 20 °C Active the solution wire (Data) 20 GAm @ 20 °C Active the solution wire (Data) 20 GAm @ 20 °C Active the solution wire (Data) 20 GAm @ 20 °C Active the solution wire (Data) 20 GAm @ 20 °C Active the solution wire (Data) 20 GAm @ 20 °C Corrent load capacity min. wire (Data) 20 GAm @ 20 °C Active the solution wire (Data) 20 GAm @ 20 °C Corrent load capacity min. wire (Data) 20 GAm @ 20 °C Corrent load capacity min. wire (Data) 20 GAm @ 20 °C Corrent load capacity min. (solution) 2 kW @ 60 s Corrent load capacity withstand voltage (wire) 40 °C Max. operating temperature (static) 40 °C Flame resistance Good, application-related testing Corrent load capacity (static) 40 °C Flame resistance Good, application-related testing Coll resist	Tolerance outer diameter wire insulation (data)	±5%
Amount wires (Data)   3     Amount wires (Data)   128     Diameter of single wires (Data)   0.1 mm     Conductor crossection wire (Data)   1 mm <sup>2</sup> Material conductor wire (Data)   Stranded copper wire, bare     Wire conductor ye (Data)   Stranded copper wire, bare     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 (standard)   20 Ω/m @ 20 °C     A withstand voltage (wire - wire)   28 V/@ 60 s     Electrical resistance costant wire   39 0/m @ 20 °C     A withstand voltage (wire - wire)   28 V/@ 60 s     Power frequency withstand voltage (wire - wire)   28 V/@ 60 s     Min. oparating temperature (wire)   30 °C     Operating temperature (wire)   30 °C     Operating temperature (wire)   30 °C     Operating temperature wire, (dynamic)   30 °C <t< td=""><td>Shore hardness wire insulation (Data)</td><td>55 ± 5 Shore D</td></t<>	Shore hardness wire insulation (Data)	55 ± 5 Shore D
Amount strands wire (Data)   128     Dianater of single wires (Data)   0.1 mm     Material conductor wire (Data)   Stranded copper wire, bare     Wire conductor type (Data)   Stranded copper wire, bare     Wire conductor type (Data)   strand class 6     Max. rate voltage (conductor - conductor)   300 V     Current load capacity (standard)   to DIN VDE 0298 4     Current load capacity min. wire   5.9 A     Current load capacity min. wire   0.9 O/TC     Electrical resistance inconstant wire   39 O/km @ 20 °C     Current load capacity min. wire   2.8 V @ 60 s     Min. operating temperature (tota)   2.0 O/km @ 20 °C     Covert topacewire   2.kV @ 60 s     Min. operating temperature (statc)   -40 °C     Max. operating temperature (statc)   -40 °C     Operating temperature (statc)   -40 °C     Operating temperature (max. (dynamic))   -20 °C     Operating temperature (max. (dynamic))   -20 °C     Operating temperature (max. (dynamic))   -20 °C     Operating temperature (max. (dynamic))   -00 °C     Operating temperature (max. (dynamic))   -20 °C <td>Ingredient freeness wire insulation (Data)</td> <td>lead-free, halogen-free, silicone-free, LABS-free</td>	Ingredient freeness wire insulation (Data)	lead-free, halogen-free, silicone-free, LABS-free
Diameter of single wires (Data)       0,1 mm         Conductor rorssection wire (Data)       1 mm²         Max rated voltage (conductor yine) (Data)       Stranded copper wire, bare         Wire conductor type (Data)       strand class 6         Max. rated voltage (conductor - conductor)       300 V         Current load capacity (stranderd)       to DIN VDE 0288-4         Current load capacity (stranderd)       to DIN VDE 0288-4         Current load capacity (stranderd)       20 CMm @ 20 °C         Electrical resistance line constant wire       39 DAm @ 20 °C         Electrical resistance coating wire (Data)       20 Am @ 20 °C         Ac withstand voltage (wire - wire)       2 KV @ 60 s         Power Inequency withstand voltage (wire- spectric)       20 °C         Operating temperature (state)       40 °C         Max. operating temperature (state)       90 °C         Inme resistance       UL 591 § 1100 FI2 IEC 60332.2	Amount wires (Data)	3
Conductor crosssection wire (Data)     1 mm <sup>4</sup> Material conductor wire (Data)     Stranded copper wire, bare       Mise conductor yee (Data)     strand datas 6       Max. rated voltage (conductor - conductor)     300 V       Max. rated voltage (conductor - conductor)     300 V       Current load capacity (strandard)     to DIN VDE 0298-4       Current load capacity min. Wire (Data)     15 A       Electrical resistance line constant wire     39 Q.Km @ 20 °C       Electrical resistance line constant wire     39 Q.Km @ 20 °C       A withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - yire)     2 kV @ 60 s       Power frequency withstand voltage (wire - yire)     2 kV @ 60 s       Power frequency withstand voltage (wire - yire)     2 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -20 °C       Operating temperature max. (dynamic)     90 °C       Gasoline resistance     Good. application-related testing       Gasoline resistance     Good. application-related testing       Gasoline resistance     Good. application-related testing       Bending radius (sinstallation)     x Outer diameter       Bending radius (sins	Amount strands wire (Data)	128
Material conductor wire (Data)       Stranded copper wire, bare         Wire conductor ype (Data)       strand class 6         Max, rated voltage (conductor - ground)       300 V         Max, rated voltage (conductor - ground)       300 V         Current load capacity (strandard)       to DN VDE 0298-4         Current load capacity (strandard)       to DN VDE 0298-4         Current load capacity (strandard)       to DN VDE 0298-4         Current load capacity (strandard)       20 NCm @ 20 °C         Electrical resistance coeling wire (Data)       29 A. Mr. @ 20 °C         Electrical resistance coeling wire (Data)       20 A. Mr. @ 20 °C         A withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - strandard)       20 °C         Operating temperature (stratc)       -40 °C         Max. operating temperature (stratc)       -40 °C         Max. operating temperature (stratc)       -20 °C         Operating temperature (stratc)       90 °C         Flame resistance       Good, application-related testing         Gascine resistance       Good, application-related testing         Ol resistance       Good, application-related testing         Bending radius (installation)       x Outer diameter <t< td=""><td>Diameter of single wires (Data)</td><td>0,1 mm</td></t<>	Diameter of single wires (Data)	0,1 mm
Wire conductor type (Data)       strand class 6         Max. rated voltage (conductor - conductor)       300 V         Max. rated voltage (conductor - conductor)       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. Wire (Data)       15 A         Electrical resistance lone constant wire       39 Ω/km @ 20 °C         Electrical resistance constant wire       39 Ω/km @ 20 °C         Current load capacity min. Wire (Data)       15 A         Electrical resistance constant wire       39 Ω/km @ 20 °C         Carrent load capacity (standard)       20 V/k @ 60 s         AC withstand voltage (wire - vire 0 and voltage (wire - 2 k/V @ 60 s         Power frequency withstand voltage (wire - 2 k/V @ 60 s         Operating temperature min. (dynamic)       -20 °C         Operating temperature min. (dynamic)       -20 °C         Operating temperature mix. (dynamic)       -20 °C         Operating temperature mix. (dynamic)       90 °C         Flame resistance       UL 1581 § 1100 FT2   EC 60322-2-2   UL 1581 § 1090         Chemical resistance       Good, application-related testing         Gaoline resistance       Good, application-related testing         Bending radius (fixed)       8 x Ouler diameter	Conductor crosssection wire (Data)	1 mm <sup>2</sup>
Max. rated voltage (conductor - ground)     300 V       Max. rated voltage (conductor - ground)     300 V       Current load capacity ginn wire     5.9 A       Current load capacity min. wire     5.9 A       Current load capacity min. wire     39 D/km @ 20 °C       Electrical resistance costing wire (Data)     20 D/km @ 20 °C       Electrical resistance costing wire (Data)     20 D/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - group)     2 kV @ 60 s       Mix. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Operating temperature (static)     -40 °C       Operating temperature max. (dynamic)     90 °C       Operating temperature max. (dynamic)     90 °C       Comenical resistance     UL 1581 § 1100 FT2   EC 60332-2-2   UL 1581 § 1090       Chemical resistance     Good, application-related testing       Oil resistance     Good, application-related testing	Material conductor wire (Data)	Stranded copper wire, bare
Max. rated voltage (conductor - ground)       300 V         Current load capacity (standard)       to DIN VDE 0299-4         Current load capacity min. Wire       5,9 A         Current load capacity min. Wire (Data)       15 A         Electrical resistance ine constant wire       39 Ωkm @ 20 °C         Current load capacity min. Wire (Data)       20 Ωkm @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - gak V @ 60 s         Power frequency withstand voltage (wire - gak V @ 60 s         Max. operating temperature (tsatic)       -40 °C         Max. operating temperature (tsatic)       -40 °C         Max. operating temperature (tsatic)       -40 °C         Gascing temperature max. (dynamic)       90 °C         Operating temperature max. (dynamic)       -20 °C         Operating temperature max. (dynamic)       -20 °C         Operating temperature max. (dynamic)       90 °C         Filam resistance       Good, application-related testing         Gasoline resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, applicatio	Wire conductor type (Data)	strand class 6
Current load capacity (standard)     to DIN VDE 0298.4       Current load capacity min. wire     5,9 A       Current load capacity min. wire     5,9 A       Electrical resistance line constant wire     39 Ω/km @ 20 °C       Electrical resistance coating wire (Data)     20 Ω/km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - isotant wire)     39 °C       Querating temperature (fixed)     90 °C       Operating temperature (fixed)     90 °C       Operating temperature max. (dynamic)     -20 °C       Operating temperature max. (dynamic)     -20 °C       Operating temperature max. (dynamic)     90 °C       Glassine e     UL 1581 § 1100 FT2   EC 60332-2-2   UL 1581 § 1090       chemical resistance     Good, application-related testing       Glassine resistance     Good, application-related testing       Old resistance     Good, application-related testing <td>Max. rated voltage (conductor - conductor)</td> <td>300 V</td>	Max. rated voltage (conductor - conductor)	300 V
Current load capacity min. wire       5,9 A         Current load capacity min. Wire (Data)       15 A         Electrical resistance coating wire (Data)       39 O/km @ 20 °C         Electrical resistance coating wire (Data)       20 V/km @ 20 °C         AC withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - isckel)       -40 °C         Min. operating temperature (fixed)       90 °C         Operating temperature (fixed)       90 °C         Operating temperature (min. (dynamic))       -20 °C         Operating temperature min. (dynamic)       90 °C         Flame resistance       Good, application-related testing         Oil resistance       Good, application-related testing         Oil resistance       Good, application-related testing   DIN EN 60811-404         Bending radius (installation)       x Outer diameter         Bending radius (installation)       x Outer diameter         No. of poles<	Max. rated voltage (conductor - ground)	300 V
Current load capacity min. Wire (Data)       15 A         Electrical resistance fine constant wire       39 0/km @ 20 °C         Electrical resistance coating wire (Data)       20 0/km @ 20 °C         A withstand voltage (wire - wire)       2 kV @ 60 s         Power frequency withstand voltage (wire - jacket)       -40 °C         Min. operating temperature (static)       -40 °C         Max. operating temperature max. (dynamic)       90 °C         Operating temperature max. (dynamic)       90 °C         Flame resistance       God, application related testing         Gasaline resistance       God, application-related testing         Gasaline resistance       God, application-related testing         Oil resistance       God, application-related testing         Bending radius (installation)       x Outer diameter         Bending radius (fixed)       8 x Outer diameter         Bending radius (forced)       5 m @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         Traversing temperature max       19         Family construction form       free cable end         No. of bending cycles (C-track)       5 m @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         Traversing distance (C-track)	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance conting wire (Data)     20 /km @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - vire)     2 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -90 °C       Operating temperature (static)     -40 °C       Max. operating temperature (static)     -90 °C       Operating temperature (static)     -90 °C       Flame resistance     UL 1581 § 1100 FT2   IEC 60322-22   UL 1581 § 1090       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 (installation)     x Outer diameter       Bending radius (glovamic)     10 x Outer diameter       Bending radius (dynamic)     10 x Outer diameter       Parwer Bending radius (dynamic)     10 x Outer diameter       Bending radius (dynamic)     10 x Outer diameter <td>Current load capacity min. wire</td> <td>5,9 A</td>	Current load capacity min. wire	5,9 A
Electrical resistance coating wire (Data)     20 \Dr.m @ 20 °C       AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - jacket)     40 °C       Min. operating temperature (static)     40 °C       Max. operating temperature (static)     90 °C       Operating temperature (static)     90 °C       Operating temperature (ixed)     90 °C       Operating temperature max. (dynamic)     90 °C       Operating temperature max. (dynamic)     90 °C       Operating temperature max. (dynamic)     90 °C       Flame resistance     Good, application-related testing       Oll resistance     Good, application-related testing       Din resistance     Souter diameter       Bending radius (	Current load capacity min. Wire (Data)	15 A
AC withstand voltage (wire - wire)     2 kV @ 60 s       Power frequency withstand voltage (wire - jacket)     2 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (static)     -40 °C       Max. operating temperature (static)     -20 °C       Operating temperature min. (dynamic)     -20 °C       Operating temperature min. (dynamic)     -20 °C       Operating temperature max. (dynamic)     90 °C       Flame resistance     UL 1581 § 1100 FT2   IEC 60332-2:2   UL 1581 § 1090       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 (installation)     x Outer diameter       Bending radius (gvamic)     10 x Outer diameter       No. of bending cycles (C-track)     5 Mio. @ 25 °C       Traveris gistance (C-track)     2 m/s @ 25 °C       Travel speed (C-track)     2 m/s @ 25 °C       Travel speed (C-track)     2 m/s @ 25 °C       Travel speed (C-track)     19       Family construction form     M12       Gender	Electrical resistance line constant wire	39 Ω/km @ 20 °C
Power frequency withstand voltage (wire - jacket)     2 kV @ 60 s       Min. operating temperature (static)     -40 °C       Max. operating temperature (fixed)     90 °C       Operating temperature min. (dynamic)     -20 °C       Operating temperature max. (dynamic)     90 °C       Flame resistance     UL 1581 § 1100 FT2   IEC 60332-2:2   UL 1581 § 1090       chemical 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 (gynamic)     10 x Outer diameter       No. of bending cycles (C-track)     5 Mio. @ 25 °C       Traversing distance (C-track)     5 m @ 25 °C       Family construction form     free cable end       No. of poles     19       Family construction form     M12       Gender     female       Color contact carrier     black       Coding     A       No. of poles     5       PIN 1     +       <	Electrical resistance coating wire (Data)	20 Ω/km @ 20 °C
jacket)2 kV @ 60 SMin. operating temperature (static)-40 °CMax. operating temperature (fixed)90 °COperating temperature min. (dynamic)-20 °COperating temperature max. (dynamic)90 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)8 x Outer diameterBending radius (chrack)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 4NO S 1	AC withstand voltage (wire - wire)	2 kV @ 60 s
Max. operating temperature (fixed)   90 °C     Operating temperature min. (dynamic)   -20 °C     Operating temperature max. (dynamic)   90 °C     Flame resistance   UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090     chemical resistance   Good, application-related testing     Gasoline 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 (installation)   x Outer diameter     Bending radius (crack)   5 Mio. @ 25 °C     Traversing distance (C-track)   5 m @ 25 °C     Connection type 2     Family construction form   free cable end     No. of poles   19     Family construction form   M12     Gender   female     Color contact carrier   black     Coding   A     No. of poles   5     PIN 1   +     PIN 2   NC S 2     PIN 4   NO S 1		2 kV @ 60 s
Operating temperature min. (dynamic)-20 °COperating temperature max. (dynamic)90 °CFlame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingOil resistanceGood, application-related testingBending radius (installation)x Outer diameterBending radius (installation)8 x Outer diameterBending radius (installation)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTraversing distance (C-track)5 m @ 25 °CConnection type 2Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 4NO S 1	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic)       90 °C         Flame resistance       UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090         chemical resistance       Good, application-related testing         Gasoline 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 (installation)       x Outer diameter         Bending radius (stad)       8 x Outer diameter         Bending radius (chrack)       5 Mio. @ 25 °C         Traversing distance (C-track)       5 m @ 25 °C         Travel speed (C-track)       5 m @ 25 °C         Connection type 2          Family construction form       free cable end         No. of poles       19         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	Max. operating temperature (fixed)	90 °C
Flame resistanceUL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testingDi resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (dynamic)10 x Outer diameterBending radius (dynamic)10 x Outer diameterBending radius (dynamic)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTraversing distance (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5FIN 1+FIN 2NC S 2FIN 4NO S 1	Operating temperature min. (dynamic)	-20 °C
chemical resistanceGood, application-related testingGasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)8 x Outer diameterBending radius (dynamic)10 x Outer diameterBending radius (chrack)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTraversing distance (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackColingANo. of poles5FIN 1+FIN 2NC S 2FIN 3-FIN 4NO S 1	Operating temperature max. (dynamic)	2° 09
Gasoline resistanceGood, application-related testingOil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)× Outer diameterBending radius (fixed)8 × Outer diameterBending radius (dynamic)10 × Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
Oil resistanceGood, application-related testing   DIN EN 60811-404Bending radius (installation)x Outer diameterBending radius (fixed)8 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	chemical resistance	Good, application-related testing
Bending radius (installation)x Outer diameterBending radius (fixed)8 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 4NO S 1	Gasoline resistance	Good, application-related testing
Bending radius (fixed)8 x Outer diameterBending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (dynamic)10 x Outer diameterNo. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Bending radius (installation)	x Outer diameter
No. of bending cycles (C-track)5 Mio. @ 25 °CTraversing distance (C-track)5 m @ 25 °CTravel speed (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Bending radius (fixed)	8 x Outer diameter
Traversing distance (C-track)5 m @ 25 °CTravel speed (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)2 m/s @ 25 °CConnection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	No. of bending cycles (C-track)	5 Mio. @ 25 °C
Connection type 2Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Traversing distance (C-track)	5 m @ 25 °C
Family construction formfree cable endNo. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Travel speed (C-track)	2 m/s @ 25 °C
No. of poles19Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Connection type 2	
Family construction formM12GenderfemaleColor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Family construction form	free cable end
GenderfemaleGolor contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	No. of poles	19
Color contact carrierblackCodingANo. of poles5PIN 1+PIN 2NC S 2PIN 3-PIN 4NO S 1	Family construction form	M12
Coding       A         No. of poles       5         PIN 1       +         PIN 2       NC S 2         PIN 3       -         PIN 4       NO S 1	Gender	female
No. of poles       5         PIN 1       +         PIN 2       NC S 2         PIN 3       -         PIN 4       NO S 1	Color contact carrier	black
PIN 1       +         PIN 2       NC S 2         PIN 3       -         PIN 4       NO S 1	Coding	A
PIN 2       NC S 2         PIN 3       -         PIN 4       NO S 1	No. of poles	5
PIN 3       -         PIN 4       NO S 1	PIN 1	+
PIN 4 NO S 1	PIN 2	NC S 2
	PIN 3	-
PIN 5 PE	PIN 4	NO S 1
	PIN 5	PE

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