

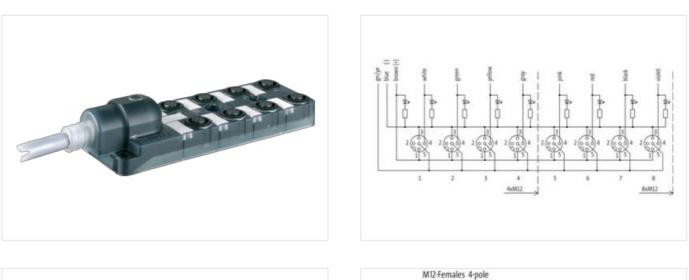
## EXACT12, 8XM12, 4 POLE MOULDED CABLE

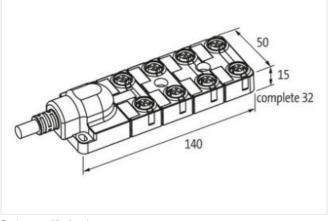
5.0m PUR 8x0.5+3x1.0, UL/CSA

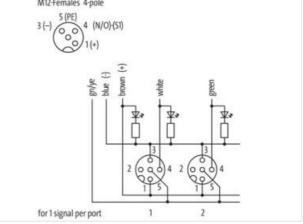
8-way, 4-pole Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

## Link to Product

Illustration







Product may differ from Image



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

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: 2024-05-07

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ECLASS 1:1     27:40108       ECLASS 1:2.0     27:40108       ECLASS 1:2.0     27:40108       ECLASS 1:2.0     27:40108       ECLASS 1:2.0     ECLOSS 2:00       Package unt     1       ECLASS 1:2.0     ECLASS 3:00:00       Package unt     1       Encreted data [Suppi)     Concet depending on conted max.       Operating voltage DC     24 V       Concet depending on conted max.     4.A       Exclass 1:00     Encotechant State 1:00       Device protection [Sectors]     Polics Protechant State 1:00       Device protection [Sectors]     Plane related mt       Mechanical data [Metrial data     Mechanical data [Sector 1:00       Mechanical data [Sector 2:00     Plane related mt       Mechanical data [Sector 2:00	ECLASS-10.1	27440108
ECLASS 13 022440108ETMA-5.0EC002988automs tariff under8544420GTN414857300580Packang unt1Electrical data I SupplyCorraing voltage DC24 VCurrent operating per contact max.4 AInstallation I Connection1Bestree Development of ElectricalDevice protection [Electrical165.187Device protection [Electrical165.187Device protection [Electrical169.187Device protection [Electrical169.187Mechanical data [Material data169.187Mechanical data [Material data169.187Mechanical data [Material data20.107Corraing temperature min.20.107Corraing temperature min.70.107Corraing temperature min.70.107Corraing temperature min.20.107Corraing temperature min.20.107Stratificator (Cable179.007Stratificator (Cable)179.007Stratificator (Cable)100 mmStratificator min. <td></td> <td></td>		
ETIMA.0.     ECON258S       austoms tariff number     8544290       GTN     404873203660       Packaging unit     1       Electrical data i Supply        Corraling voltage DC     24 V       Corraling voltage DC     105 × 10       Device protection [Electrical     Device protection [Electrical       Device protection [Modia     Haine retardant       Mechanical data [Mouring data     Pasito       Mechanical data [Mouring data     Voltage and protection [Electrical       Mounting method     Storbaugeoninde       Evotomental characteristics [Climatic     Climatic       Colesting Imperature main.     -20 ° C       Codesting Imperature main.	ECLASS-12.0	27440108
GTN     4048579306960       Packaging unit     1       Electrical dal [Supply     Comment operating per content max.       Carrent operating per content max.     4 A       Installation [Concention     Mounting set       Mounting set     M12 x 1       Device protection [Electrical     Device protection [Motia       Device protection [Motia     Fame relatance       Material housing     Pash       Variant operating method     Schnabgewinde       Environmental characteristics [Climatic     Commention       Operating temperature min.     20 °C       Cable colon     gray       Type of Certificals     culters wethold       Anount transdring	ETIM-5.0	EC002585
Packaging unit     1       Electrical data [Suppiy        Current operating op CO     24 V       Current operating per contact max.     4 A       Installation [Connection]        Mouning set     M12 x 1       Device protection [Electrical]        Device protection [K ME Co0529)     IP65. IP67       Device protection [Media]        Ham resistance     fame restandant       Mechanical data [Material data]     Fame restandant       Mechanical data [Material data]     Fame restance       Mouning method     Schraubgewinde       Environmental characteristics [Climatic     Operating temperature max.       Operating temperature max.     70 °C       Operating temperature max.     70 °C       Addition controls temperature max.     70 °C       Addition for temperature max.     70 °C       Cable destification     447       Jacket Colar     gray       Type of Certification     147       Jacket Colar     gray       Type of Certification     1100000000000000000000000000000000000	customs tariff number	85444290
Electrical data   Supply     Operating per contact max.     4 A       Current operating per contact max.     4 A       Istallation   Connection     Istallation   Connection   Electrical       Device protection   Electrical     Device protection   Electrical       Device protection   Media     Imme retardant       Berlies protection   Media     Imme retardant       Mechanical data   Material data     Marce max.       Mechanical data   Mounting data     Schraubgewinde       Person endersite (STINE)     Device protection   Media       Schraubgewinde     Envice max.       Mounting method     Schraubgewinde       Enviconmental characteristics   Climatic     Schraubgewinde       Constal protection   Media     Schraubgewinde       Enviconmental characteristics   Climatic     Schraubgewinde       Constal protection   Media     Schraubgewinde       Enviconmental characteristics   Climatic     Schraubgewinde       Schraubgewinde     Schraubgewinde       Enviconmental characteristics   Climatic     Schraubgewinde       Schraubgewinde     Schraubgewinde       Schraubgewinde     Schraubgewinde       Schraubgewinde     Schraubgewinde	GTIN	4048879308960
Operating voltage DC     24 V       Current operating per contact max.     4 A       Installation   Connection     Mouning set       Mouning set     M12 x 1       Device protection   Electrical     PPS, IPS7       Device protection   Modia     Imme restatact       Fame restatacton     fame restatacton       Mechanical data   Material data     Material housing       Mechanical data   Material data     Material housing       Mechanical data   Material data     Schraubgewinde       Environmental characteristics   Climatic     Concommental characteristics   Climatic       Operating wolf wolf wolf wolf wolf wolf wolf wolf	Packaging unit	1
Operating voltage DC     24 V       Current operating per contact max.     4 A       Installation   Connection     Mouning set       Mouning set     M12 x 1       Device protection   Electrical     PPS, IPS7       Device protection   Modia     Imme restatact       Fame restatacton     fame restatacton       Mechanical data   Material data     Material housing       Mechanical data   Material data     Material housing       Mechanical data   Material data     Schraubgewinde       Environmental characteristics   Climatic     Concommental characteristics   Climatic       Operating wolf wolf wolf wolf wolf wolf wolf wolf	Electrical data   Supply	
Current operating per contact max.     4 A       Installation   Connection     Installation   Connection   Median   Marce Part 2000   PR65, PR7       Device preciscion   Electrical     Degice of protection   Media       Image: enablishing of protection   Median   Marce Part 2000   PR65, PR7     Device preciscion   Median   Marce Part 2000   PR65, PR7       Device protection   Median     Image: enablishing   Plastic     Material Part 2000   PR65, PR7       Material Doubling     Plastic     Material Part 2000   PR65, PR7       Munning method     Schraubgewinde     Environmethal Characteristics   Climatic       Coperating temperature max.     70 °C     Coperating temperature max.       Operating temperature max.     70 °C     Coperating temperature max.       Additional condition temperature range     depending on cable quality       Installation   CAble     Color     gray       Type of Conflictation     447     Jacket Color     gray       Type of Conflictation max.     51 mm		24.14
Instilution   Connection       Mouring set     M12 x 1       Device protection   Electrical     Engree of protection (EN EC 50629)     P66, IP67       Device protection (EM EC 50629)     P66, IP67     Engree of protection (EM EC 50629)     Pasic       Madrial housing     Game retardant     Machanical data [Material data     Material housing     Pasic       Madrial housing method     Schraubgewinde     Environmental characteristics   Cimati     Operating temperature max.     70 °C       Operating temperature max.     70 °C     Operating temperature max.     70 °C       Additional condition temperature max.     70 °C     Operating temperature max.     70 °C       Additional condition temperature max.     70 °C     Operating temperature max.     70 °C       Additional condition temperature max.     70 °C     Operating temperature max.     70 °C       Additional condition temperature max.     70 °C     Operating temperature max.     70 °C       Additional condition temperature max.     70 °C     Immedia data function     Immedia data function       Stranding temperature max.     70 °C     Immedia data function     Immedia data funcon       Stranding (type 2)		
Mounting set     M12 x 1       Degree or protection I Electrical     IP65, IP67       Device protection I Media     IP65, IP67       Device protection I Media     Immo restance       Immo restance     fiame netardant       Material Asta I Material Asta     Immo restance       Material Asta I Material Asta     Plastic       Material Asta I Mounting attain     Nourting method       Mounting method     Schraubgewinde       Environmental characteristics I Climatic     Operating temperature min.       - 20 °C     Operating temperature max.       Additional condition temperature range     depending on cable quality       Installation I Cable     Cable dentification       Afford Carl     gray       Type of Centificate     OURus       Amount stranding     1       Stranding factor max.     51 mm       Stranding factor max.     51 mm <td></td> <td>47</td>		47
Device protection   Electrical       Degree of protection   Media       Term resistance     Ram relatidant       Mechanical data   Metrial data       Material housing     Plastic       Material housing     Plastic       Material housing method     Schwabgewinde       Environmetal characteristics   Climatic     Comparing temperature min.       - 20 °C     Operating temperature max.       Operating temperature max.     70 °C       Addinonal condition temperature ranze     depending on cable quality       Installation   Cable     Cable identification       Jacket Color     gray       Type of Cartificate     cuFluse       Amount stranding     1       Stranding factor min.     51 mm       Amount stranding     1       Stranding factor min.     51 mm       Amount stranding (type 2)     100 mm       Stranding factor min.     51 mm       Stranding factor min. (type 2)     100 mm       Stranding factor min. (type 2)     100 mm       Stranding factor min. (type 2)     100 mm       Filling     yee       Addia spin	Installation   Connection	
Degree of protection (EN IEC 60529)     IP65, IP67       Device protection   Media     Itame retardant       Mechanical data   Material data     Itame retardant       Mechanical data   Material busing     Plastic       Mechanical data   Mounting data     Itame retardant       Mounting method     Schraubgewinde       Environmental characteristics   Climatic     20 °C       Operating temperature max.     70 °C       Addition I cobie     Cobie degriding on cable quality       Installation   Cable     Cable identification       Cable identification     447       Jacket Color     gray       Type of Cartificate     cUPus       Amount stranding     1       Stranding     2 wices with Filler twisted       Stranding     1 with stranding combination counter-rotating twisted       Stranding (type 2)     1 00 mm       Filler     yea       Weak     PUR       Stranding factor mix.     51 mm       Stranding factor mix. <td>Mounting set</td> <td>M12 x 1</td>	Mounting set	M12 x 1
Device protection   Media       Fiam resistance     fiame retardant       Mechanical data   Material data     Plastic       Mechanical data   Mouning data     Plastic       Mounting method     Schraubgewinde       Environmental characteristics   Climatic     Concommental characteristics   Climatic       Operating temperature min.     -20 °C       Operating temperature max.     70 °C       Additional condition temperature may.     depending on cable quality       Installaton   Cable     Cable identification       Cable identification     447       Jacket Color     gray       Type of Conflicate     CURus       Amount stranding     1       Stranding factor min.     51 mm       Stranding factor min.     51 mm       Stranding (type 2)     10 mm       Stranding (type 2)     100 mm       Filler     yes       Weire around Stranding combination counter-rotating twisted       Stranding factor max.     51 mm       Stranding (type 2)     100 mm       Filler     yes       Weire around Stranding combination counter-rotating twisted	Device protection   Electrical	
Filme resistance     flame retardant       Material data   Material data       Material housing     Plastic       Material housing     Plastic       Material housing     Schraubgewinde       Environmental characteristics   Climatic     Common schraubgewinde       Operating temperature min.     -20 °C       Operating temperature max.     70 °C       Additional condition temperature max.     70 °C       Additional condition temperature max.     70 °C       Cable identification     447       Jacket Color     gray       Type of Conflicate     CURus       Amount stranding     1       Stranding factor min.     51 mm       Stranding factor min.     51 mm       Stranding factor min.     51 mm       Stranding factor min.     100 mm       Stranding factor min.     100 mm       Stranding factor min.     100 mm       Stranding factor min.     146.3 grm       Material packt     PUR       Stranding factor max. (type 2)     100 mm       Filer     yets       Wire arrangement     white, yellow	Degree of protection (EN IEC 60529)	IP65, IP67
Material housing     Plastic       Material housing     Plastic       Mechanical data   Mounting data     Mounting method       Schraubgewinde     Environmental characteristics   Climatic       Environmental characteristics   Climatic     20 °C       Operating temperature max.     70 °C       Additional condition temperature may.     depending on cable quality       Installation   Cable     Cable identification       447     Jacket Color       gray     Type of Certificate       Amount stranding     1       Stranding factor max.     51 mm       Anoment stranding (type 2)     1       Stranding fuctor max.     51 mm       Anoment stranding (type 2)     9 wires around Stranding combination counter-rotating twisted       Stranding fuctor mix. (type 2)     100 mm       Filler     yes       wires around Stranding combination counter-rotating twisted     Stranding factor max. (type 2)       Stranding factor mix. (type 2)     100 mm       Filler     yes       wires around Stranding combination counter-rotating twisted       Stranding factor mix. (type 2)     100 mm       Filler	Device protection   Media	
Mechanical data   Material data       Material housing     Plastic       Mechanical data   Mounting data     Mounting method     Schraubgewinde       Environmental characteristics   Climatic     20 °C     Operating temperature max.     70 °C       Operating temperature max.     70 °C     Additional condition temperature may.     depending on cable quality       Installation   Cable     Cable identification     447       Jacket Color     gray     Type of Certificate     cURus       Amount stranding     1     Stranding quart Provide Prove Provide Prove Provide Provide Provide Provide Provide Provide	Flame resistance	flame retardant
Material housing     Plastic       Mechanical data   Mounting data     Schraubgewinde       Environmental characteristics   Cilmatic     Construction       Operating temperature min.     -20 °C       Operating temperature max.     70 °C       Additional condition temperature max.     70 °C       Additional condition temperature max.     70 °C       Cable identification     447       Jacket Color     gray       Type of Contificate     cURus       Amount stranding     1       Stranding     2 wires with Filter twisted       Stranding factor max.     51 mm       Amount stranding (type 2)     1       Stranding factor max.     51 mm       Stranding fupo P2)     1       Stranding factor max.     51 mm       Stranding factor max.     51 mm       Stranding fupo P2)     100 mm       Stranding factor max. (type 2)     100 mm       Filler     yes       wire arrangement     white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)       Cable weight     146.3 g/m       Material jacket     PUR <td></td> <td></td>		
Mechanical data   Mounting data       Mounting method     Schraubgewinde       Environmental characteristics   Climatic       Operating temperature min.     -20 °C       Operating temperature max.     70 °C       Additional condition temperature max.     70 °C       Cable identification     447       Jacket Color     gray       Type of Certificate     cUBus       Amount stranding     1       Stranding factor min.     51 mm       Stranding factor max.     51 mm       Stranding (type 2)     9 wires around Stranding combination counter-rotating twisted       Stranding factor max.     51 mm       Stranding factor max.     91 mom       Stranding factor max.     92 mol 00 mm       Stranding factor max.     92 mol 00 mm       Stranding factor max.     92 mol 00 mm<		Plastic
Mounting method     Schraubgewinde       Environmental characteristics   Climatic     C       Operating temperature min.     -20 °C       Operating temperature max.     70 °C       Additional condition temperature range     depending on cable quality       Installation   Cable        Cable identification     447       Jacket Color     gray       Type of Configate     cUFus       Amount stranding     1       Stranding factor max.     51 mm       Stranding factor max.     51 mm       Amount stranding (type 2)     9 wires around Stranding combination counter-rotating twisted       Stranding factor max.     51 mm       Amount stranding (type 2)     9 wires around Stranding combination counter-rotating twisted       Stranding factor max. (type 2)     100 mm       Stranding factor max. (type 2)     100 mm       Filler     yes       wire arrangement     white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)       Cable weigh     146.3 g/m       Aterial jacket     PUR       Shore hardness jacket     55 ± 5 Shore A       Freedom from ingre	-	Plastic
Environmental characteristics   Climatic       Operating temperature min.     -20 °C       Operating temperature max.     70 °C       Additional condition temperature range     depending on cable quality       Installation   Cable     Cable identification       State identification     447       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     1       Stranding factor min.     51 mm       Stranding factor max.     61 mm       Amount stranding (type 2)     1       Stranding factor max.     51 mm       Amount stranding (type 2)     9 wires around Stranding combination counter-rotating twisted       Stranding factor max.     100 mm       Stranding factor max. (type 2)     100 mm       Filler     yes       wire arangement     white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)       Cable weigh     146.3 g/m       Material jacket     PUR       Shore hadross jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free       Outer di	Mechanical data   Mounting data	
Operating temperature min.     -20 °C       Operating temperature max.     70 °C       Additional condition temperature maye     depending on cable quality       Installation   Cable        Cable identification     447       Jacket Color     gray       Type of Certificate     cuRus       Amount stranding     1       Stranding factor min.     51 mm       Stranding factor max.     51 mm       Amount stranding (type 2)     1       Stranding (type 2)     9 wires around Stranding combination counter-rotating twisted       Stranding factor max.     51 mm       Amount stranding (type 2)     9 wires around Stranding combination counter-rotating twisted       Stranding factor max. (type 2)     100 mm       Filler     yes       wire arrangement     white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)       Cabe veigth     146.3 g/m       Material jacket     PUR       Shore hardness jacket     85 ± 5 Shore A       Freedom from ingredients (jacket)     19.4 mm       Tolerance outer diameter (skeath)     ± 5 %       Material jackel	Mounting method	Schraubgewinde
Operating temperature max.     70 °C       Additional condition temperature range     depending on cable quality       Installation   Cable     Cable identification       Cable identification     447       Jacket Color     gray       Type of Carlifocate     cURus       Amount stranding     1       Stranding factor min.     51 mm       Stranding factor max.     51 mm       Amount stranding (type 2)     1       Stranding factor max.     51 mm       Amount stranding (type 2)     9 wires around Stranding combination counter-rotating twisted       Stranding factor max.     (type 2)       Mount stranding (type 2)     100 mm       Filler     yes       wrire arrangement     white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)       Cable weigth     146,3 g/m       Material jacket     PUR       Shore hardness jacket     85 ± 5 Shore A       <	Environmental characteristics   Climatic	
Additional condition temperature range depending on cable quality   Installation   Cable   Cable identification 447   Jacket Color gray   Type of Certificate cURus   Amount stranding 1   Stranding 2 wires with Filler twisted   Stranding factor min. 51 mm   Stranding factor max. 51 nm   Amount stranding (type 2) 1   Stranding factor max. 51 nm   Amount stranding (type 2) 9 wires around Stranding combination counter-rotating twisted   Stranding factor min. (type 2) 100 mm   Stranding factor max. (type 2) 100 mm   Filler yes   wire arrangement white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)   Cable weigh 146.3 g/m   Material jacket PUR   Shore hardness jacket 85 ± 5 Shore A   Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free   Outer diameter (sheath) ± 5 %   Material wire insulation TPE-E   Amount wires 8   Outer diameter insulation 1.8 mm   Outer diameter insulation 1.8 mm   Outer diameter insulation 1.5 %   Shore hardness w	Operating temperature min.	-20 °C
Installation   CableCable identification447Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding2 wires with Filler twistedStranding factor min.51 mmStranding factor max.51 mmAmount stranding (type 2)1Stranding (type 2)9 wires around Stranding combination counter-rotating twistedStranding tactor min.10 mmStranding tactor min. (type 2)100 mmStranding factor max. (type 2)100 mmFilleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146,3 g/mMaterial jacktPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, LABS-freeOuter-diameter (jacket)9.4 mmTolerance outer diameter (sheath)± 5 %Material wire insulation1,8 mmOuter diameter insulation1,5 %Shore hardness wire	Operating temperature max.	70 °C
Cable identification447Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding factor min.51 mmStranding factor max.51 mmAmount stranding (type 2)1Stranding factor max.51 mmAmount stranding (type 2)9 wires around Stranding combination counter-rotating twistedStranding factor max.51 mmAmount stranding (type 2)9 wires around Stranding combination counter-rotating twistedStranding factor max.9 wires around stranding combinationCable weigth146,3 g/mMaterial jacketPURShore hardness jacket85 t S Shore ATolerance outer diamet	Additional condition temperature range	depending on cable quality
Jacket ColorgrayType of CertificatecURusAmount stranding1Stranding factor min.51 mmStranding factor max.51 mmAmount stranding (type 2)1Stranding factor max.51 mmAmount stranding (type 2)9 wires around Stranding combination counter-rotating twistedStranding factor max.100 mmStranding factor max.190 mmFilleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146.3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9.4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter insulation1.8 mmOuter diameter insulation1.8 mmOuter diameter insulation55 ± 3 Shore DIngredient folerance core insulation55 ± 3 Shore DIngredient freeness wire insulation1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Installation   Cable	
Type of CertificatecLRusAmount stranding1Stranding2 wires with Filler twistedStranding factor min.51 mmStranding factor max.51 mmAmount stranding (type 2)1Amount stranding (type 2)9 wires around Stranding combination counter-rotating twistedStranding factor min. (type 2)100 mmStranding factor max. (type 2)100 mmStranding factor max. (type 2)100 mmFilleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146.3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9.4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter fuelerance core insulation1.8 mmOuter diameter fuelerance core insulation5 ± 3 Shore DIngredient freeness wire insulation1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Cable identification	447
Type of CertificatecURusAmount stranding1Stranding2 wires with Filler twistedStranding factor min.51 mmStranding factor max.51 mmAmount stranding (type 2)1Stranding (type 2)9 wires around Stranding combination counter-rotating twistedStranding factor min. (type 2)9 wires around Stranding combination counter-rotating twistedStranding factor min. (type 2)100 mmStranding factor max. (type 2)100 mmFilleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146.3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9.4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter insulation1.8 mmOuter diameter insulation1.8 mmOuter diameter insulation5 ± 3 Shore DIngredient freeness wire insulation1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeIngredient freeness wire insulation1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Jacket Color	gray
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Stranding factor max.51 mmAmount stranding (type 2)1Stranding (type 2)9 wires around Stranding combination counter-rotating twistedStranding factor min. (type 2)100 mmStranding factor max. (type 2)100 mmFilleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146.3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)± 5 %Material wire insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulation165 ± 3 Shore DIngredient freeness wire insulation162 ± 3 Shore DIngredient freeness wire insulationked-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Stranding	2 wires with Filler twisted
Amount stranding (type 2)1Stranding (type 2)9 wires around Stranding combination counter-rotating twistedStranding factor min. (type 2)100 mmStranding factor max. (type 2)100 mmFilleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146,3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation55 ± 3 Shore DIngredient freeness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-free	Stranding factor min.	51 mm
Stranding (type 2)   9 wires around Stranding combination counter-rotating twisted     Stranding factor min. (type 2)   100 mm     Stranding factor max. (type 2)   100 mm     Filler   yes     wire arrangement   white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)     Cable weigth   146,3 g/m     Material jacket   PUR     Shore hardness jacket   85 ± 5 Shore A     Freedom from ingredients (jacket)   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free     Outer-diameter (jacket)   9,4 mm     Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   TPE-E     Amount wires   8     Outer diameter tolerance core insulation   1,8 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   55 ± 3 Shore D     Ingredient freeness wire insulation   Iead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Stranding factor max.	51 mm
Stranding factor min. (type 2)100 mmStranding factor max. (type 2)100 mmFilleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146,3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, CFC-free, halogen-free, silicone-free, LABS-free	Amount stranding (type 2)	1
Stranding factor max. (type 2)100 mmFilleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146,3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Stranding (type 2)	9 wires around Stranding combination counter-rotating twisted
Filleryeswire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146,3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Stranding factor min. (type 2)	100 mm
wire arrangementwhite, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)Cable weigth146,3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Stranding factor max. (type 2)	100 mm
Cable weigth146,3 g/mMaterial jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Filler	yes
Material jacketPURShore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter tolerance core insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	wire arrangement	white, yellow, (blue, brown, green-yellow, gray, pink, red, green, black, violet)
Shore hardness jacket85 ± 5 Shore AFreedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Cable weigth	146,3 g/m
Freedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-freeOuter-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Material jacket	PUR
Outer-diameter (jacket)9,4 mmTolerance outer diameter (sheath)± 5 %Material wire insulationTPE-EAmount wires8Outer diameter insulation1,8 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation55 ± 3 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Shore hardness jacket	85 ± 5 Shore A
Tolerance outer diameter (sheath)   ± 5 %     Material wire insulation   TPE-E     Amount wires   8     Outer diameter insulation   1,8 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   55 ± 3 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Material wire insulation   TPE-E     Amount wires   8     Outer diameter insulation   1,8 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   55 ± 3 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free		-
Amount wires 8   Outer diameter insulation 1,8 mm   Outer diameter tolerance core insulation ± 5 %   Shore hardness wire insulation 55 ± 3 Shore D   Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Tolerance outer diameter (sheath)	
Outer diameter insulation   1,8 mm     Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   55 ± 3 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free	Material wire insulation	
Outer diameter tolerance core insulation   ± 5 %     Shore hardness wire insulation   55 ± 3 Shore D     Ingredient freeness wire insulation   lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free		8
Shore hardness wire insulation     55 ± 3 Shore D       Ingredient freeness wire insulation     lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free		
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free		
Amount strands (wire) 64		
	Amount strands (wire)	64

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Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,5 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Material wire insulation (Data)	TPE-E
Outer diameter wire insulation (Data)	2,1 mm
Tolerance outer diameter wire insulation (data)	±5%
Shore hardness wire insulation (Data)	55 ± 3 Shore D
Ingredient freeness wire insulation (Data)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free, LABS-free
Amount wires (Data)	3
Amount strands wire (Data)	128
Diameter of single wires (Data)	0,1 mm
Conductor crosssection wire (Data)	1 mm <sup>2</sup>
Material conductor wire (Data)	Stranded copper wire, bare
Wire conductor type (Data)	strand class 6
Max. rated voltage (conductor - conductor)	500 V
Max. rated voltage (conductor - ground)	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	5,9 A
Current load capacity min. Wire (Data)	15 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 - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	0° 00
Operating temperature min. (dynamic)	-40 °C
Operating temperature max. (dynamic)	0° 0€
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 (fixed)	x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	5 Mio. @ 25 °C
Connection type 2	
Family construction form	free cable end
No. of poles	11
Family construction form	M12
Gender	female
Color contact carrier	black
Coding	A
No. of poles	4
PIN 1	+
PIN 2	n.c.
PIN 3	
PIN 4	NO S 1
PIN 5	PE

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