

## M12 MALE 0° / M8 FEMALE 90° LED

PUR 3X0.34 GRAY, UL/CSA, drag ch 6m

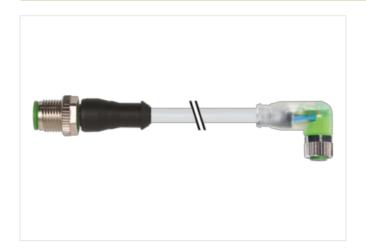
Male straight – female 90° M12 – M8, 3-pole 2× LED (PNP), (NPN) on request

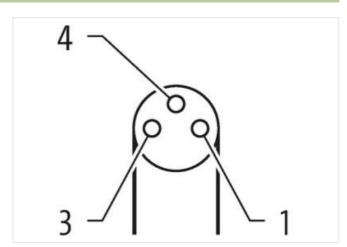
Plastic housings with good resistance against chemicals and oils.

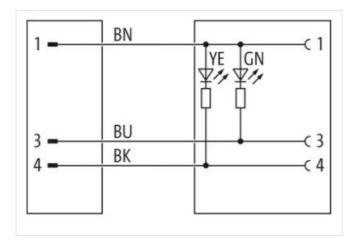
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

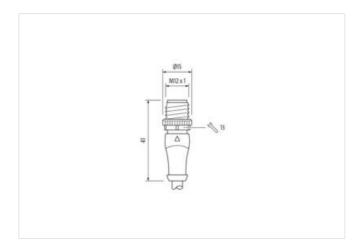
## **Link to Product**

## Illustration



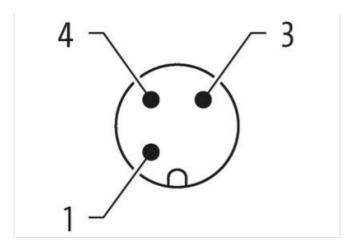


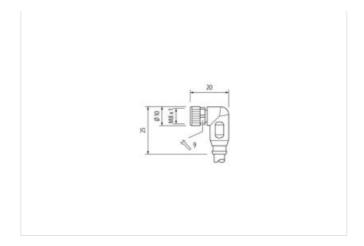






stay connected





Product may differ from Image



Cable length	6 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Gender	male
Cable outlet	straight
Coding	A
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,4 Nm
Mounting method	inserted, screwed
Family construction form	M8
Thread	M8 x 1
Gender	female
suitable for corrugated tube (internal Ø)	6,5 mm
Cable outlet	angled
Coding	A
No. of poles	3
Width across flats	SW9
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311



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ETMA 5.0         ECO001955           customs brill number         85444930           GTN         494897448326           Packsing munt         1           Eschelical distal Suppty         February solitage DC           Operating voltage DC         24 V           Operating voltage DC omax.         30 V           Operating voltage DC omax.         30 V           Operating voltage DC omax.         4 A           Operating voltage DC omax.         30 V           Operating voltage DC omax.         4 A           Operating voltage DC omax.         1 Image: Voltage DC omax.           Operating voltage DC omax.         3 Image: Voltage DC omax.           Operating voltage DC omax.         3 Image: Voltage DC omax.           Operating voltage DC omax.         3 Image: Voltage DC omax.           Operating voltage DC omax.         4 Image: Voltage DC omax.           Operating voltage DC omax.         5 °C           Operating voltage DC omax.         5 °C           Operatin	ECLASS-12.0	27060311
Guitons tariff number         65445896           GTIN         404879448826           Packaging unit         1           Electrical data [Suppty         1           Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC min.         30 V           Correct operating voltage DC min.         4 A           Diagnostics         Status indication LED           Status indication LED         green, yellow           Device protection [Electrical         Device protection [Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Mechanical data [Ministration of Condition of Condition [Condition]         1           Mechanical data [Ministration of Condition]         Nickland           Locking bucking in protection degree         inserted, screwed. Shaking protection           Environmental International Advanceristics [Climatic Condition]         2m. dise-casting           Mechanical data [Mounting data         inserted, screwed. Shaking protection           Environmental characteristics [Climatic Condition (Condition (Condition)]         25 °C           Operating temperature min.         25 °C           Operating temperature min.         25 °C		
GTIN 4948879448825 Packaging unit 1  Electrical data   Supply  Operating voltage DC Drint, 18 V  Operating lemperature max. 85 °C  Operating temperature max. 85 °C  Operating temperature max. 85 °C  Operating temperature max. 85 °C  Operating voltage DC Drint, 18 V  Operating temperature max. 86 °C  Operating voltage DC Drint, 18 V  Operating voltage DC Drint, 18 V  Operating temperature max. 86 °C  Operating temperature max. 86 °C  Operating temperature max. 86 °C  Operating voltage DC DC V  Operating voltage DC V  Operating voltage DC DC V  Operating voltage DC V  Operating voltage DC V		
Packaging unit		
Coperating voltage DC min.		
Operating voltage DC         24 V           Operating voltage DC min.         18 V           Operating voltage DC min.         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED         green, yellow           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Meternal group (IEC 50664-1)         I           Michanical data I Material data           Coding nothing         Nickeled           Locking material         2to discassing           Mochanical data I Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic           Coparating temperature max.         85 °C           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Operating temperature max.         85 °C           Note on bracing radius         Afterion: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity           Product standard         DIN EN 61076-2-101 (M12; DIN EN 61076-2-104 (M5)		'
Operating voltage DC min. 18 V Operating voltage DC max. 30 V Operating voltage DC max. 30 V Operating voltage DC max. 30 V Oberating voltage DC max. 4 A  Diagnostics  Status indication LED green, yellow  Device protection [Electrical  Additional condition protection degree insertial, scrowed Pollution Degree 3  Additional condition protection degree insertial, scrowed Pollution Degree 3  Makeral group (IEC 60664-1) I  Mechanical data   Material data Coating looking Nickeled Looking material Ziro de-casting  Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min. 25 °C Operating temperature min. 25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cabile quality  Important Installation notes  Note on bending radius  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be andangered by excessive bending forces.  Product standard DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)  Installation   Cable  wive a crangement brown, black, blue Cable identification 233  Cable Type 3  Jacket Cobr gry Type of Certificate CURus  Amount stranding 1  Serven, black, blue Cable weight 29, 37 gm  Material price indication 12, 25 Town, black, blue Cable weight 29, 37 gm  Material price indication 12, 25 Town, black, blue Cable weight 29, 37 gm  Material price indication 12, 25 Town, black, blue Cable weight 29, 37 gm  Material price indication 12, 25 Town, black, blue Cable weight 29, 37 gm  Material price indication 12, 25 Town, black, blue Cable weight 29, 37 gm  Material wire indication 12, 25 Town, black, blue Cable weight 29, 25 Spore A  Freedom from ingrediente (sched) 19, 25 Spore A  Freedom from ing	Electrical data   Supply	
Operating voltage DC max         30 V           Current operating per context max.         4 A           Device protection   Electrical           Additional condition protection degree         3           Additional condition protection degree         3           Material group (IEC 60664-1)         I           Mechanical data   Material data         Insertled, screwed.           Coating locking         Nickeled           Locking material         Zinc die casting           Mechanical data   Mounting data         Michanical data   Mounting data           Mounting method         insertled, screwed. Shaking protection           Environmental characteristics   Climatic         Operating temperature max.           Additional condition temperature max.         25 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Note on starin relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.           Note on bending radius         Attentions: Cosarve the permissible bending radii when laying cables, as the IP protection class can be entiraged by excessive bending forces.           Conformity         Installation [Cable           installation [Cable with a continual protein of cable derification [Cable derification [Cable derification [Cable derification [Cable derification [Cable	Operating voltage DC	
Current operating per contact max:    Diagnostics		
Diagnostics         Situs indication LED         green, yellow           Devote protection Electrical         Additional condition protection degree         inserted, screwed           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Material group (IEC 60664.1)         1           Coating looking         Nickeled           Locking material         2m Ceresting           Mechanical data, Mounting data         Michael           Environmental Characteristics [Climatic         Vincender of the protection           Environmental Characteristics [Climatic         Properating temperature main.         25 °C           Operating temperature main.         25 °C         Quality           Additional condition temperature map.         depending on cable quality           Important Installation notes         Attention: Observe the permissible bending radiu when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Envisoration Cable insulication Cable insulication (Cable insulication Cable insulication (Cable insulication Cable insulication Cable insulication (Cable insulication Cable insulication Cable insulication (Cable insulication Cable insulication Cable insulication Cabl		
Status indication LED  pevice protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Material group (IEC 80984-1) 1  Mechanical data   Material data  Cading looking North and State   Mounting data  Mechanical data   Mounting data  Munting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Pervariang temperature min. 25 °C  Operating temperature min. 25 °C  Operating temperature max. 85 °C  Operating temperature max. 86 °C  Additional condition temperature range depending on cable quality  Important installation notes  Note on barding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ordinagred by soccessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)  Installation Coble  wire arrangement brown, black, blue  Cable (color) gray  Type of Certificate Cullus  Allackal Color  Type of Certificate Cullus  Stranding 3 wrest wisted  Write arrangement Din Allackal Din Allackal Color  Type of Certificate Cullus  Allackal Color  Type of Certificate Cullus  Stranding 3 wrest wisted  Write arrangement Din Allackal Din Allack	Current operating per contact max.	4 A
Device protection   Electrical	Diagnostics	
Additional condition protection degree inserted, screwed Pollution Degree 3  Methanical group (IEC 60064+1) I  Mechanical data   Material data Coating locking Nickeled Locking material Coating locking Nickeled Locking material Mechanical data   Mounting data  Environmental characteristics   Climatic Operating temperature min.	Status indication LED	green, yellow
Pollution Degree 3 Material group (IEC 60664-1) I I Mechanical data   Material data Coating locking Nickeled Locking material Institute of the protection Inserted, screwed, Shaking protection  Mounting method Inserted inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min. 25 °C Operating temperature max. 85 °C Additional condition temperature rame depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered that shaking to endangered bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)  Installation   Cable  Were arrangement bown, black, blue Cable identification 233 Cable Type 3 Jacket Cobor gray Type of Certificate CURus Amount stranding 1 Stranding 19	Device protection   Electrical	
Material group (IEC 60064-1)         I           Mechanical data   Material data         Mechanical data   Material data           Coating locking         Nickeled           Locking material         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.         25 °C           Operating temperature max.         85 °C         Additional condition temperature range         depending on cable quality           Important Installation notes         Important installation notes         Vote on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)           Installation   Cable         wire arrangement         brown, black, blue           Cable identification         233         Cable identification         233           Cable Type         3         3 wires twisted           Amount stranding         1         1           Stranding         3 wires twisted           Wite arrangement         CuPus           Cable weight         29.7 grm           Material jacket         9 UB <tr< td=""><td>Additional condition protection degree</td><td>inserted, screwed</td></tr<>	Additional condition protection degree	inserted, screwed
Mechanical data   Material data         Nickeled           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.         25 °C           Operating temperature man.         85 °C           Additional condition temperature range depending on cable quality         depending on cable quality           Important installation notes         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contomity         Product standard         DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)           Installation   Cable         wire arrangement         brown, black, blue           Cable identification         233           Cable identification         233           Cable identification         23 wires twisted           wire arrangement         brown, black, blue           Cable weight         29.7 g/m	Pollution Degree	3
Coating locking         Nickeled           Locking material         Zinc die-casting           Mechanical data   Mounting data           Mounting method         inserted, screwed. Shaking protection           Environmental characteristics   Climatic           Operating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)           Installation   Cable         Wire arrangement         brown, black, blue           Cable identification         233         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weight         29.7 g/m           Material jacket         PUR </td <td>Material group (IEC 60664-1)</td> <td>I</td>	Material group (IEC 60664-1)	I
Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.	Mechanical data   Material data	
Locking material         Zinc die-casting           Mechaical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatio           Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Vote on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Conformity         Brain tiestallation         Protect the connectors by suitable measures from mechanical loa	Coating locking	Nickeled
Mechanical data   Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min25 °C Operating temperature max. 85 °C Additional condition temperature depending on cable quality  ###################################	Locking material	Zinc die-casting
Provious tandard   Provious   P	Mechanical data   Mounting data	
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Important installation notes           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contentity         Product standard           Installation   Cable         DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)           Installation   Cable         brown, black, blue           Cable identification         233           Cable (dentification)         233           Cable (dentification)         233           Cable (dentification)         234           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29.7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from Ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free <t< td=""><td>Mounting method</td><td>inserted, screwed, Shaking protection</td></t<>	Mounting method	inserted, screwed, Shaking protection
Operating temperature max.  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)  Installation   Cable  wire arrangement brown, black, blue  Cable identification 233  Cable Type 3  Jacket Color gray  Type of Certificate URus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket PUR  Shore hardness jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Environmental characteristics   Climatic	
Operating temperature max.  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)  Installation   Cable  wire arrangement brown, black, blue  Cable identification 233  Cable Type 3  Jacket Color gray  Type of Certificate URus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket PUR  Shore hardness jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Operating temperature min.	-25 °C
Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Atention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)  Installation   Cable  wire arrangement brown, black, blue  Cable identification 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weight 29,7 g/m  Material jacket 90±5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter tolerance core insulation ± 5 %  Outer diameter tolerance core insulation ± 5 %  Outer diameter tolerance core insulation ± 5 %	<u> </u>	
Important installation notes           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Atention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard         DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)           Installation   Cable         Diversity (M12)         Diversity (M12)           wire arrangement         brown, black, blue         Diversity (M12)           Cable Identification         233         Cable Identification         Cable Identification           Cable (Color)         gray         Cable (Color)         Gray           Type of Certificate         CURus           Amount stranding         1         Stranding         3 wires twisted           wire arrangement         brown, black, blue         Diversity (M12)         Diversity (M12)           Cable weighth         29, 7 g/m         Material jacket         PR           Shore hardness jacket         90 ± 5 Shore A         Freedom from ingredients (jacket)         Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %		depending on cable quality
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)  Installation   Cable  wire arrangement brown, black, blue  Cable Identification 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Shore hardness jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) ead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter tolerance core insulation ± 5 %  Outer diameter tolerance core insulation ± 5 %		
Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)  Installation   Cable  wire arrangement brown, black, blue  Cable identification 233  Cable Type 3 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Shore hardness jacket 9PUR  Shore hardness jacket 990 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Product standard         DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)           Installation   Cable           wire arrangement         brown, black, blue           Cable identification         233           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %	Note on bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Installation   Cable           wire arrangement         brown, black, blue           Cable identification         233           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         1,25 mm	Conformity	
Installation   Cable           wire arrangement         brown, black, blue           Cable identification         233           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         1,25 mm	Product standard	DIN EN 61076-2-101 (M12); DIN EN 61076-2-104 (M8)
wire arrangement         brown, black, blue           Cable identification         233           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         3 wires twisted           wire arrangement         brown, black, blue           Cable weigth         29,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,1 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         3           Outer diameter insulation         1,25 mm           Outer diameter tolerance core insulation         ± 5 %		
Cable identification 233  Cable Type 3  Jacket Color gray  Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %		
Cable Type 3 Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding 3 wires twisted wire arrangement brown, black, blue Cable weigth 29,7 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,1 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	<u> </u>	
Jacket Color gray Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %		
Type of Certificate cURus  Amount stranding 1  Stranding 3 wires twisted  wire arrangement brown, black, blue  Cable weigth 29,7 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,1 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %		
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Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 3  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Outer-diameter (jacket)	4,1 mm
Material wire insulation PP Amount wires 3 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	Tolerance outer diameter (sheath)	
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 %	Amount wires	3
	Outer diameter insulation	1,25 mm
Shore hardness wire insulation 70 ± 5 Shore D	Outer diameter tolerance core insulation	±5%
	Shore hardness wire insulation	70 ± 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: 2024-06-26



Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	6 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
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)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min