

## M12 female 0° A-cod. with cable shielded

PUR 4x0.34 shielded gy 60m

Female straight M12, 4-pole shielded with cable sleeves 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

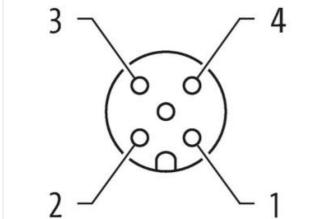
Illustration

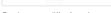




N B

3





Product may differ from Image



Cable length

Side 1

60 m

Tightening torque

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: 2024-05-13

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0,6 Nm



Family construction formM12TransadM12 x1CodingAMauralPURWath arces fatsSW13Dagrae of protection (ENTEC 0559)PED, F005, 1867Commercial data2273218ECLASS 5.02273218ECLASS 5.122737218ECLASS 5.022737218ECLASS 5.022737218ECLASS 5.02273611ECLASS 5.02700011ECLASS 5.02700011ECLASS 5.02700011ECLASS 5.12700011ECLASS 5.02700011ECLASS 5.12700011ECLASS 5.02700011ECLASS 5.12700011ECLASS 5.02700011ECLASS 5.12700011ECLASS 5.12700011ECLASS 5.02700011ECLASS 5.02700011ECLASS 5.02700011ECLASS 5.12700011ECLASS 5.02700011ECLASS 5.02700011ECLASS 5.02700011ECLASS 5.02700011ECLASS 5.060 VOperating voltage AC max.60 VOperating voltage DC max.60	Mounting method	inserted, screwed
Coding         A           Material         PUR           Waterial         PUR           Weth access flass         SW13           Dagree of protection (EN EC 60529)         IP65, IP66K, IP67           Commercial data         27279218           ECLASS-6.0         27260311           ECLASS-6.0         27060311           ECLASS-10.1         27060311           ECLASS-10         27060311           ECLASS-10         27060311           ECLASS-10         27060311           ECLASS-10         27060311           ECLASS 10         27060311           ECLASS 10         27060311           ECLASS 11         27060311           ECLASS 11         27060311           ECLASS 12         27060311           ECLASS 12         27060311           ECHASS 140         448979556651           Parkaging unit         1           Exercical data (Supply         Gov<	Family construction form	M12
Material         PUR           Width across flats         SW13           Degree of prolocition (EN EC 60558)         IPPS, IPPS, IPPS, IPPS           Ect.AsS 6.0         27279218           ECLASS 5.0         27090311           ECLASS 5.0         27090311           ECLASS 5.1.0         27090311           ECLASS 5.1.0         27090311           ECLASS 5.1.0         27090311           ECLASS 5.1.1         27090311           ECLASS 5.1.0         ECO0155           Parking voltage AC max.         60 V           Operating voltage AC max.         60 V           Current operating pare context max.         4 A           Evaluation Connexton         Max 1           Maxing pare context max.         4 A           Evaluation prolocion digone         1 nerted, scrowed           Material goong (Eco668-1)         1	Thread	M12 x 1
With screas flais         SWI3           Degree of protection (EN IEC 60529)         PP65, IP66K, IP67           Commercial 604         E           ECI.ASS.6.0         2779218           ECI.ASS.7.0         2779218           ECI.ASS.8.0         2779218           ECI.ASS.8.0         2779218           ECI.ASS.7.0         2779218           ECI.ASS.8.0         2779218           ECI.ASS.9.1         27060311	Coding	A
Degree of protection (EN IEC 80529)         IP65, IP60K, IP67           Commercial data         P           ECLASS 6.0         27279218           ECLASS 7.0         27290311           ECLASS 7.0         27060311           ECLASS 7.0         27060311           ECLASS 7.0         27060311           ECLASS 7.0         27060311           ECLASS 7.0         ECO01855           cuatoms tarff number         85444280           OTM         449857956661           Packaging unit         1           Electrical data [Suppy         Comercion           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Corrent operating voltage AC max	Material	PUR
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ECLASS 6.0         27279218           ECLASS 7.0         27060311           ECLASS 7.0         2706031           Electrical data Suppy         0           Operating voltage AC max.         60 V           Operating voltage AC max.	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
ECLASS 6.1         27279218           ECLASS 6.0         27279218           ECLASS 6.0         2779219           ECLASS 6.0         2779219           ECLASS 7.0         27060311           ECLASS 7.0         ECON585           Outsmits and finumber         8544290           Outsmits and finumber         8544290           Outsmits and finumber         8544290           Operating values AC max.         60 V           Operating values DC max.         60 V           Operating values Vanze         4 A           Instation protection I Electrical         Additional condition protection Agree           Additional condition protection 1         1	Commercial data	
ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27060311           ECLASS-7.0.1         27060311           ECLASS-7.0.1         27060311           ECLASS-7.0.1         27060311           ECLASS-7.0.2         27060311           ECLASS-7.0         EC001655           casterns taiff number         8544290           casterns taiff number         8544290           GTIN         4048573556651           Packaging unf         1           Electrical data [ Suppty         Operating voltage AC max.           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Current operating oper contact max.         4 A           Installation [Connoction         Installation [Connoction]           Mounting set         M12 x 1           Device protection [Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Dogree         3           Rated surge voltage         1.5 kV           Material group (EC 0664-1)         1           Mechanical data [Material data]         Zne die-casting           Muoring methor	ECLASS-6.0	27279218
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           Electrical data         Status           Operating voltage AC max.         60 V           Corrent operating par contact max.         4 A           Instaticiton   Connection         M12 x 1           Device protection   Electrical         Addition protection degree           Addition protection degree         1.5 KV           Material group (EC 60664-1)         1           Mechanical data   Material data         Zinc die-casting           Mechanical data   Material data         Zinc die-casting           Mechanical data	ECLASS-6.1	27279218
ECLASS-8.0         27660311           ECLASS-10.1         27660311           ECLASS-11.1         27660311           ECLASS-12.0         27660311           ECLASS-12.0         27660311           ECLASS-12.0         27660311           ECLASS-12.0         EC001855           castoms taiff number         8544290           GTM         4048379556851           Packaging unit         1           Electrical datal Supply         Electrical data Supply           Operating voltage AC max.         60 V           Current operating per contact max.         4 A           Installation   Connection         M12 x 1           Device protection   Electrical         Serveed           Additional condition protection degree         1           Pollution Degree         3           Rated aruge voltage         1,5 kV           Material arose (105 6964-1)         1           Macchanical data   Material data         Zinc die-casting           Material serve connection         Zinc die-casting           Mounting met	ECLASS-7.0	27279218
ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETM-5.0         EC001855           customs tariff number         85444290           GTIN         404879556851           Packaging unit         1           Effectical data (Supply         Correnting voltage DC max.           Operating voltage DC max.         60 V           Corrent operating per contact max.         4 A           Installation [Connection         M12 x 1           Device protection [Electrical         M12 x 1           Device protection [Electrical         3           Rated surge voltage         1.5 kV           Material group (IEC 60684-1)         1           Mechanical data [Material data         Coating of fitting           Coating of fitting         nickele plated           Coating of fitting         niserted, screwed, Shaking protection	ECLASS-8.0	27279218
ECLASS-11.1     27060311       ECLASS-12.0     27060311       ECLASS-12.0     27060311       ECLASS-12.0     EC001865       oustoms tariff number     85444290       GTIM     40487955661       Packaging unit     1       Electrical data   Supply     Operating voltage AC max.     60 V       Operating voltage AC max.     60 V     Courtent operating per contact max.     4 A       Installation   Connection     M12 x 1     Device protection   Electrical       Additional contition protection degree     18     Network       Polition Degree     3     Rated surge voltage     1,5 kV       Material group (Electrical     A     Device protection   Electrical       Additional contition protection degree     1,5 kV     Material doval     Courting of max.       Coating of Ming     Nickeled     Courting of Ming     Courting of Ming       Locking material     Zinc die casting     Material sorew connection     Zinc die casting       Material sorew connection     Zinc die casting     Courten operature max.     85 °C       Additional condition tomperature max.     85 °C     Courten operature max.     85 °C       Additional condition tomperature may.     85 °C     Courten operature max.     85 °C       Additional condition tomperature may.     85 °C	ECLASS-9.0	27060311
ECLASS-12.0       27060311         ETIM-5.0       EC001985         oustoms taff number       85444290         GTIN       4048879556651         Packagng unit       1         Electrical data [Supply       0         Operating voltage AC max.       60 V         Operating voltage AC max.       60 V         Current operating per contact max.       4 A         Installation   Connection       Mounting set         Mounting set       M12 x 1         Device protection   Electrical       Additional condition protection degree         Additional condition protection degree       1.5 kV         Material group (IEC 60664-1)       1         Operating temperature max.       2.5 vC         Coperatin	ECLASS-10.1	27060311
ETIN-5.0       EC001855         customs tariff number       85444290         GTIN       404887956661         Packaging unit       1         Electrical data   Supply          Operating voltage AC max.       60 V         Current operating per contact max.       61 V         Mouting set       M12 x 1         Device protection   Electrical       Match         Additional condition protection degree       inserted, screwed         Pollution Degree       3         Rated surge voltage       1,5 KV         Material group (EC 60664-1)       1         Mechanical data   Material data       Environmental characteristata         Coating of fitting       nickel plated         Locking matherial       Zinc die-casting         Mechanical data	ECLASS-11.1	27060311
customs tariff number       88444290         GTIN       4048879556651         Packaging unit       1         Electrical data   Supply       Operating voltage AC max.         Operating voltage AC max.       60 V         Current operating per contact max.       4 A         Installation   Connection       Mounting set         Mounting set       M12 x 1         Device protection / Electrical       Additional condition protection degree         Additional condition protection degree       inserted, sorewed         Pollution Degree       3         Rated surgo voltage       1,5 kV         Material group (IEC 60684-1)       I         Mechanical data   Material data       Coating of filing         Coating of filing       nickel plated         Locking       Nickeled         Coating of filing       inkel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Material condition temperature max.       85 °C         Additional condition temperature max.       85	ECLASS-12.0	27060311
GTIN       4048879556651         Packaging unit       1         Electrical data   Supply       Coperating voltage AC max.       60 V         Operating voltage DC max.       60 V         Current operating per contact max.       4 A         Installation   Connection       Mounting set         Mounting set       M12 x 1         Device protection   Electrical         Additional condition protection degree       inserted, screwed         Pollution Degree       3         Rated surge voltage       1,5 kV         Material group (CE 60684-1)       1         Mechanical data   Material data       Coating of fitting         Coating of fitting       nickel plated         Locking material       Zinc die-casting         Meterial screw connection       Zinc die-casting         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Coefficient         Operating temperature max.       85 °C         Additional condition temperature may       695 °C         Operating temperature max.       85 °C         Additional condition temperature may       695 °C         Operating temperature max.       85 °C         Additional condition temperature may	ETIM-5.0	EC001855
Packaging unit       1         Electrical data   Supply       Operating voltage AC max.       60 V         Operating voltage DC max.       60 V         Current operating per contact max.       4 A         Installation   Connection       Installation   Connection Generation         Mounting set       M12 x 1         Device protection   Electrical       Additional condition protection degree         Additional condition protection degree       3         Rated surge voltage       1,5 kV         Material group (IEC 6068-1)       1         Mechanical data   Material data       Coating of fitting         Coating of fitting       nickle   plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Material screw connection       Zinc die-casting         Material screw connection       Zinc die-casting         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Coating of fitting         Operating temperature max.       85 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation noteles       Note on strain relief <td>customs tariff number</td> <td>85444290</td>	customs tariff number	85444290
Electrical data   Supply         Operating voltage AC max.       60 V         Operating voltage AC max.       60 V         Current operating per contact max.       4 A         Installation   Connection       Installation   Connection         Mounting set       M12 x 1         Device protection   Electrical       Additional condition protection degree         Installation   Connection       inserted, screwed         Pollution Degree       3         Rated surge voltage       1,5 kV         Material group (IEC 60664-1)       1         Mechanical data   Material data       Coating of filting         Coating of filting       nickel plated         Locking material       Zinc clie-casting         Material screw connection       Zinc clie-casting         Material screw connection       Zinc clie-casting         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Coating of filting on cable quality         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Attention: Observe the permissible bending radii when laying cables, as the IP protection class	GTIN	4048879556651
Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Current operating per contact max.         4 A           Installation   Connection         Mounting set           Mounting set         M12 x 1           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Dagree         3           Rated surge voltage         1,5 kV           Material group (EC 60664-1)         1           Mechanical data   Material data         Coating locking           Coating locking         Nickeled           Coating of fitting         nickel plated           Locking and fitting         nickel plated           Locking material         Zinc die-casting           Metrial stree connection         Zinc die-casting           Metrial stree connection         Zinc die-casting           Metrial stree depending on cable quality         Important installation notes           Portating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         Attention: Observe the permissible bend	Packaging unit	1
Operating voltage DC max.       60 V         Current operating per contact max.       4 A         Installation   Connection       Installation   Connection         Mounting set       M12 x 1         Device protection   Electrical       Inserted, screwed         Additional condition protection degree       inserted, screwed         Pollution Degree       3         Rated surge voltage       1,5 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       Coating of fitting         Coating of fitting       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating momenture max.         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Note on strain relief         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 endangared by sexcessibe bending forces.	Electrical data   Supply	
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Installation   Connection           Mounting set         M12 x 1           Device protection   Electrical         Inserted, screwed           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1.5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Coating locking           Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Material screw connection         Zinc die-casting           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 strain relief         Protect the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Contormity	Operating voltage DC max.	60 V
Mounting set     M12 x 1       Device protection   Electrical     inserted, screwed       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 60664.1)     1       Mechanical data   Material data     Coating looking       Coating looking     Nickeled       Coating looking     nickel plated       Looking material     Zinc die-casting       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature max.       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Notes on strain relief       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.       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.       Contormity     Product standard     DIN EN 61076-2-101 (M12)	Current operating per contact max.	4 A
Mounting set     M12 x 1       Device protection   Electrical     inserted, screwed       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1,5 kV       Material group (IEC 60664.1)     1       Mechanical data   Material data     Coating looking       Coating looking     Nickeled       Coating looking     nickel plated       Looking material     Zinc die-casting       Mechanical data   Mounting data     Mounting method       Mounting method     inserted, screwed, Shaking protection       Environmental characteristics   Climatic     Operating temperature max.       Operating temperature max.     85 °C       Additional condition temperature max.     85 °C       Additional condition temperature range     depending on cable quality       Important installation notes     Notes on strain relief       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable fies.       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.       Contormity     Product standard     DIN EN 61076-2-101 (M12)	Installation   Connection	
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Pollution Degree       3         Rated surge voltage       1,5 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       I         Coating locking       Nickeled         Coating locking       Nickeled         Coating of fitting       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         Operating temperature min.       -25 °C         Operating temperature range       depending on cable quality         Important installation notes       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Conformity       Product standard         Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       DIN EN 61076-2-101 (M12)	Additional condition protection degree	inserted, screwed
Rated surge voltage       1,5 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       Coating locking       Nickeled         Coating locking       Nickeled       Coating of fitting       nickel plated         Locking material       Zinc die-casting       Material screw connection       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)         Installation   Cable       DIN EN 61076-2-101 (M12)		
Mechanical data   Material data         Coating locking       Nickeled         Coating of fiting       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Note on strain relief         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         Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       Protect le connectors by call bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.		1,5 kV
Coating locking       Nickeled         Coating of fitting       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Note on strain relief         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         Product standard       DIN EN 61076-2-101 (M12)	Material group (IEC 60664-1)	1
Coating of fitting       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         -25 °C       Operating temperature max.         Additional condition temperature range       depending on cable quality         Important installation notes       Note on strain relief         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         Product standard       DIN EN 61076-2-101 (M12)	Mechanical data   Material data	
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Material screw connection       Zinc die-casting         Mechanical data   Mounting data       inserted, screwed, Shaking protection         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         -25 °C       Operating temperature max.         0perating 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.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Conformity       Product standard         Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       Cable	Coating of fitting	nickel plated
Mechanical data   Mounting data       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       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.         Conformity       Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       Installation   Cable	Locking material	Zinc die-casting
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       Mote on strain relief         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         Installation   Cable       DIN EN 61076-2-101 (M12)	Material screw connection	Zinc die-casting
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       Mote on strain relief         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         Installation   Cable       DIN EN 61076-2-101 (M12)	Mechanical data   Mounting data	
Environmental characteristics   Climatic         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.         Conformity       Product standard         Product standard       DIN EN 61076-2-101 (M12)         Installation   Cable       Cable		inserted, screwed, Shaking protection
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Conformity     endangered by excessive bending forces.       Product standard     DIN EN 61076-2-101 (M12)       Installation   Cable     Cable		
Product standard DIN EN 61076-2-101 (M12) Installation   Cable		
Installation   Cable	Conformity	
	Product standard	DIN EN 61076-2-101 (M12)
Cable identification 331	Installation   Cable	
	Cable identification	331

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Jacket Color	gray
Amount stranding	1
Stranding	4 wires twisted
Banding	Fleece, Foil
wire arrangement	brown, black, blue, white
Traversing distance (C-track)	5 m @ 25 °C
Material jacket	PUR
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5,9 mm
Tolerance outer diameter (sheath)	±5%
Material inner jacket	PVC
Color (inner jacket)	gray
Material wire insulation	PVC
Amount wires	4
Outer diameter insulation	1,4 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	85 ± 5 Shore A
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Max. rated voltage (conductor - conductor)	350 V
Max. rated voltage (conductor - ground)	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	1,5 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	0° ℃
Operating temperature min. (dynamic)	-5 ℃
Operating temperature max. (dynamic)	70 °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 (fixed)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
Travel speed (C-track)	0,1 Mio. @ 25 °C

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