

M12 male 0° A-cod. with cable shielded

PUR 5x0.34 shielded bk UL/CSA+drag ch. 5.0m

Art.No.: 7000-13101-6420500 Weight: 0.303 Country of origin: CZ Model designation: MSAL0-U642 5.0-ZE

Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available <u>on request</u>

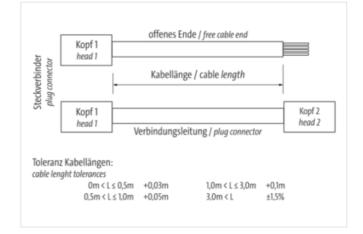
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

Product details: Male straight M12, 5-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

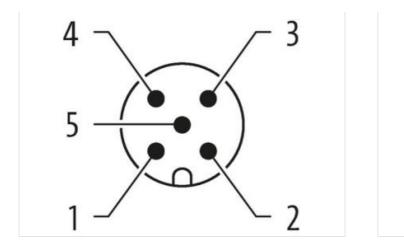
Illustration

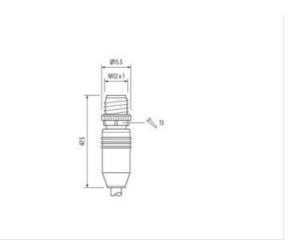


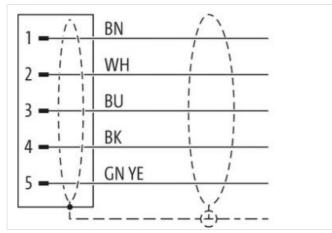


The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-05-11









Product may differ from Image



Cable length	5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Coating contact	gold plated
Commercial data	
ECLASS-6.0	27279218

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: 2025-05-11



ELLASP.0 22729216 EGLASS-8.0 2779218 EGLASS-8.0 2779218 EGLASS-8.0 27960311 EGLASS-10.1 27960311 EGLASS-11.0 27960311 EGLASS-12.0 27990311 EGLASS-12.0 27990311 EGLASS-12.0 2799031 EGLASS-12.0 2790031 EGLASS-12.0 2790031 EGLASS-13.0 EG001855 Customs Suffir number 8544290 OTM 406500002701 Packaging unit 1 Electrical data [Supply Operating voltage AC max. Operating voltage AC max. 60 V Current operating tape AC max. 60 V Current operating tampe AC max. 60 V Diagnostic	ECLASS-6.1	27279218
ECLASS-0.0 27960311 ECLASS-10.1 27960311 ECLASS-11.0 27960311 ECLASS-12.0 27960311 ECLASS-12.0 27960311 ECLASS-13.0 EC001695 ETM-5.0 EC001695 ETM-6.0 EC001695 ETM-6.0 EC001695 Customs turiff number B544220 Orall Status Customs turiff number Depresiting voltage AC max. 60 V Operating voltage AC max. 60 V Current operating inportention May May 1 1 Mounting set Max Mounting set Inserted, screwed Politoton Degree	ECLASS-7.0	27279218
ECLASS-10.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ETM-5.0 ECO01855 ETM-6.0 ECO01855 ETM-7.0 ECO01855 ETM-7.0 ECO01855 ETM-7.0 ECO01855 ETM-7.0 ECO01855 ETM-7.0 ECO01855 ETM-7.0 ECO01855 Customs taiff number 6544280.0 Other State Sta	ECLASS-8.0	27279218
ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ETIN-6.0 EC001655 ETIN-7.0 EC001655 ETIN-8.0 EC001655 ETIN-8.0 EC001655 ETIN-8.0 EC001655 ETIN-7.0 EC001655 Customs triff number 8544290 GTIN 406590032701 Packaging unit 1 Electrical data Supply Operating voltage AC max. Operating voltage C max. 60 V Current operating voltage C max. 60 V Current operating per contact max. 4A Diagnostics E Status indication LED no Instalation Connection Mounting set Mounting set M12 x 1 Device protection Electrical Inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 6064-1) I Mechanical data I Coating Infitting nickel plated Coating of fitting nickel plated Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting	ECLASS-9.0	27060311
ECLASS-12.0 27060311 ETM-8.0 EC001855 ETM-7.0 EC001955 ETM-7.0 EC001955 ETM-7.0 EC001955 ETM-7.0 EC001955 ETM-7.0 EC001955 ETM-7.0 EC001955 exatoms tariff number 6544220 GTM 406599032701 Packaging unit 1 Electrical data Supply Corrent operating per contact max. Operating voltage C max. 60 V Current operating per contact max. 4 A Diagnostics Status indication LED Status indication LED no Installation Connection Mounting set Mounting set M12 x 1 Device protection Electrical Additional condition protection degree Additional condition protection degree 3 Rated aurge voltage 1,5 kV Material arou (26 6064-1) 1 Mechanical data Nickeled Coating of tilting nickel plated Coating of tilting nickel plated Coating of tilting nickel plated <td< td=""><td>ECLASS-10.1</td><td>27060311</td></td<>	ECLASS-10.1	27060311
ETIN-5.0 EC001655 ETIN-6.0 EC001655 ETIN-6.0 EC001655 ETIN-6.0 EC001655 customs tariff number 8544230 GTIN 4065690302701 Packaging unit 1 Electrical data Supply Operating voltage A C max. 60 V Operating voltage A C max. 60 V Operating voltage A C max. 60 V Current operating voltage A C max. 60 V Operating voltage A C max. 60 V Current operating voltage A C max. 60 V Operating voltage A C max. 60 V Diagnostics Status indication LED no Insaliation I Connection Mounting set M12 x 1 Device proteotion I Electrical Additional condition protection degree inserted, screwed Poliution Degree 3 Patele surge voltage 1,5 kV Material group (IEC 60664-1) I Mechanical data Mickeled Contour for corrugate hose without Mechanical data Costing locking Nickeled Costing of fitting nickel plated Costing of fitting Cine casting Material screw connection Zinc dis	ECLASS-11.1	27060311
ETIN-6.0 EC001855 ETIN-7.0 EC001855 ETIN-6.1 EC001855 customs turiff number 8544290 GTIN 4065909032701 Packaging unit 1 Electrical data Support Operating voltage AC max. 60 V Operating voltage DC max. 60 V Operating operating voltage DC max. 60 V Operating operating voltage DC max. 60 V Status indication LED no Installation I Connection model Mouting set M12 x 1 Device protection Electrical Additional condition protection degree 1 Inserted, screwed Pollution begree 3 Rated surge voltage 1,5 kV Material arou (EC 60664-1) 1 Mechanical data Executing Mickeld Coating lockitag Nickeled Coating lockitag Material data Executing Mickenaa	ECLASS-12.0	27060311
ETIN-7.0 EC001855 ETIN-7.0 EC001855 ETIN-8.0 EC001855 Outstoms tariff number 65444290 OTIN 4065909032701 Packaging unit 1 Electrical data [Supply Operating voltage AC max. Operating voltage AC max. 60 V Operating voltage AC max. 60 V Current operating per contact max. 4 A Diagnostics Italian (Connection Mounting set M12 x 1 Device protection Electrical Italian (Connection Additional condition protection degree inserted, screwed Pollution Dagree 3 Rated surge voltage 1, Sk V Material group (IEC 60664-1) I Mechanical data Control for corrupgated hose Voltage Io king Nickeled Coating of fitting nickel plated Locking material Zinc die-casting Material screw conneolion Zinc die-casting Material screw conneolion Zinc die-casting Material screw conneolion Zin c die-casting Material screw conneolion Zin c die-casting </td <td>ETIM-5.0</td> <td>EC001855</td>	ETIM-5.0	EC001855
ETIM-8.0 EC001855 customs tariff number 85444290 GTIN 4065909032701 Packaging unit 1 Peckeding unit 1 Etercical data [Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V Operating voltage DC max. 60 V Current operating per contact max. 4 A Diagnostice Technology Status indication LED no Installation Connection Technology Mounting set M12 x 1 Device protection Electrical Additional condition protection degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) I Mechanical data Contour for corrugated hose without Mechanical data Coating of fitting nickel plated Coat	ETIM-6.0	EC001855
customs tariff number 85444290 GTIN 4065509032701 Packaging unit 1 Electrical data Supply 0 Operating voltage AC max. 60 V Current operating per contact max. 4 A Diagnostics 0 Status Indication LED no Installation Connection Mounting set Mounting set M12 x 1 Device protection Electrical Additional condition protection degree 1,5 kV Material group (IEC 6666-1) 1 Material group (IEC 6666-1) 1 Mechanical data Nickeled Costing of Titing nickel plated Locking Nickeled Costing of Titing nickel plated Locking material Zinc cie-casting Material screw connection Zin cie-casting Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic	ETIM-7.0	EC001855
GTIN 4065990032701 Packaging unit 1 Electrical data Supply Operating voltage AC max. 60 V Operating voltage AC max. 60 V Current operating per contact max. 4 A Diagnostics Diagnostics Status indication LED no Installation Connection Motify at 1 Device protection Electrical Additional condition protection degree Additional condition protection degree 1.5 kV Material group (EC 60664-1) 1 Mechanical data Contour for corrugated hose Conting of fitting nickel plated Coating of fitting nickel plated Locking material Zinc die-casting Mechanical data Motel decasting Coating of fitting nickel plated Locking material Zinc die-casting Mechanical data Mounting mathed Environmental characteristics Climatic Operating temperature main. Operating temperature main. -25 °C O	ETIM-8.0	EC001855
Packaging unit 1 Electrical data Supply Operating voltage AC max. 60 V Operating voltage AC max. 60 V Current operating per contact max. 4 A Diagnostics Status indication LED no Installation Connection 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 (IEC 60664-1) 1 Inserted, screwed Inserted, screwed Pollution Degree 3 Rated surge voltage I,5 kV Material group (IEC 60664-1) 1 Inserted, screwed Inserted, screwed Contour for corrugated hose without Mechanical data Inserted, screwed, Staking protection Coating locking Nickeled Inserted, screwed, Shaking protection Inserted, screwed, Shaking protection Material screw connection Zinc die-casting Inserted, screwed, Shaking protection Inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature max. 45 °C Operating temperature max. 45 °C Operati	customs tariff number	85444290
Electrical data Supply Operating voltage AC max. 60 V Operating voltage DC max. 60 V Current operating per contact max. 4 A Diagnostics Status indication LED no Installation Connection M12 x 1 Device protection Electrical M2 x 1 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kV Material group (EC 66664-1) 1 Mechanical data Contor for corrugated hose Conting of fitting nickel plated Coating of fitting nickel plated Locking material Zinc die-casting Material group connection Zinc die-casting Material group connection Zinc die-casting Material strew connection Zinc die-casting Material characteristics Climat	GTIN	4065909032701
Operating voltage AC max. 60 V Operating voltage AC max. 60 V Current operating per contact max. 4 A Diagnostics Image: Contact max. Status indication LED no Installation Connection Mounting set Mounting set M12 x 1 Device protection Electrical Additional condition protection degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Contour for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Zinc die-casting Material screw connection	Packaging unit	1
Operating voltage AC max. 60 V Operating voltage AC max. 60 V Current operating per contact max. 4 A Diagnostics Image: Contact max. Status indication LED no Installation Connection Mounting set Mounting set M12 x 1 Device protection Electrical Additional condition protection degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) Mechanical data Contour for corrugated hose Contour for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Contour for corrugated hose Contar for corrugated hose without Mechanical data Zinc die-casting Material screw connection		
Operating voltage DC max. 60 V Current operating per contact max. 4 A Diagnostics Status indication LED Status indication LED no Installation Connection Mounting set 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 60664-1) 1 Mechanical data Contour for corrugated hose Coating locking Nickeled Coating locking Nickeled Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Commentor Operating temperature max. 85 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality Important installation notes Attention: Observe the pernissible bending radii when laying cabl		60 V
Current operating per contact max. 4 A Diagnostics Status indication LED no Installation Connection Installation Connection Mounting set M12 x 1 Device protection Electrical Additional condition protection degree Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kV Material group (EC 60664-1) I Mechanical data Contour for corrugated hose Contour for corrugated hose without Mechanical data Coating of fitting 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 Go Operating temperature min. -25 °C Operating temperature max. 85 °C Additional condition temperature range depending on cable quality Important Installation notes Inserted screasers be ending radii when laying cables, as		
Diagnosities Status indication LED no Installation Connection 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 (IEC 60664-1) I Mechanical data Contour for corrugated hose Contour for corrugated hose without Mechanical data Material data Coating locking Coating locking Nickeled Coating of fitting nickel plated Locking material Zino die-casting Material screw connection Zine die-casting Material screw connection Zine die-casting Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature max. 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 can be andangered by exccessiv		
Status indication LED no Installation Connection M12 x 1 Device protection Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) 1 Mechanical data Contour for corrugated hose without Mechanical data Material data Contour for corrugated hose without Mechanical data Material data Coating locking Nickeled Coating locking Coating locking nickel plated Iccele -casting Material screw connection Zinc die-casting Mechanical data Mounting data Mounting method inserted, screwed. Shaking protection Inserted, screwed. Shaking protection Environmental characteristics Climatic Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature main. -25 °C Operating temperature main. -65 °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. N		**
Installation Connection Mounting set M12 x 1 Device protection Electrical Additional condition protection degree Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) I Mechanical data Contour for corrugated hose Contour for corrugated hose without Mechanical data Coating of King Coating of King Nickeled Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection 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 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 Atte	Diagnostics	
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 (IEC 60664-1) 1 Mechanical data Contour for corrugated hose Without Mechanical data Coating locking Nickeled Coating of fitting nickel plated Locking material 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 min. -25 °C Operating temperature max. A65 °C Additional condition 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 Div Education Div Education Class can be diversive bending forces.	Status indication LED	no
Device protection Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1.5 KV Material group (IEC 60664-1) 1 Mechanical data Contour for corrugated hose Contour for corrugated hose without Mechanical data Mechanical data Coating locking Nickeled Coating locking nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data Mounting data Mounting method Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature min. -25 °C Operating temperature min. <td>Installation Connection</td> <td></td>	Installation Connection	
Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) 1 Mechanical data Contour for corrugated hose Without Mechanical data 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. -25 °C Operating temperature max. 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 Pixtallation Cable DIN EN 61076-2-101 (M12)	Mounting set	M12 x 1
Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) I Mechanical data Contour for corrugated hose Without Mechanical data 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. A5 °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 I Cable DIN EN 61076-2-101 (M12)	Device protection Electrical	
Rated surge voltage 1,5 kV Material group (IEC 60664-1) I Mechanical data Contour for corrugated hose Without Mechanical data Contour for corrugated hose without 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 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 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 DIN EN 61076-2-101 (M12) Installation Cable DIN EN 61076-2-101 (M12) <td>Additional condition protection degree</td> <td>inserted, screwed</td>	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1) I Mechanical data Contour for corrugated hose Without Mechanical data 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 Mounting method 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 Din EN 61076-2-101 (M12)	Pollution Degree	3
Mechanical data Contour for corrugated hose without Mechanical data Material data Image: Coating locking 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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min. 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 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. Contornity Product standard DIN EN 61076-2-101 (M12) Installation Cable DIN EN 61076-2-101 (M12)	Rated surge voltage	1,5 kV
Contour for corrugated hose without Mechanical data Material data inckel plated 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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min. 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 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)	Material group (IEC 60664-1)	1
Mechanical data Material data 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. -25 °C Operating temperature max. A65 °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 Product standard DIN EN 61076-2-101 (M12) Installation Cable Vector Loge	Mechanical data	
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. -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 Pinstallation Cable DIN EN 61076-2-101 (M12)	Contour for corrugated hose	without
Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data Mounting data Mounting method Mounting method 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 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 Material data	
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 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 locking	Nickeled
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. 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 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 Cable	Coating of fitting	nickel plated
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. 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 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 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 Important 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 Installation Cable		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 Important 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 Installation Cable	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
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 DIN EN 61076-2-101 (M12) Installation Cable	-	
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 DIN EN 61076-2-101 (M12) Installation Cable	· · · ·	
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 DIN EN 61076-2-101 (M12) Installation Cable		
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		
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		depending on cable quality
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 DIN EN 61076-2-101 (M12) Installation Cable Conformity	Important installation notes	
Note on bending radius endangered by excessive bending forces. Conformity Product standard DIN EN 61076-2-101 (M12) Installation Cable	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) Installation Cable	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.
Installation Cable	Conformity	
	Product standard	DIN EN 61076-2-101 (M12)
wire arrangement brown, black, blue, white, green-yellow	Installation Cable	
	wire arrangement	brown, black, blue, white, green-yellow
Cable identification 642		

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: 2025-05-11



Cable Type	3
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece, Foil
Filler	yes
wire arrangement	brown, black, blue, white, green-yellow
Cable weigth	57,2 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)	5,6 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	5
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	70 ± 5 Shore D
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 mm ²
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	4,5 A
Electrical resistance line constant wire	-,,,, Α 57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire -	2 KV @ 00 S
jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 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
UV resistance	DIN EN ISO 4892-2 A
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	DIN EN 60811-404 Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min

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: 2025-05-11