

M12 male 0° A-cod. with cable shielded

PUR 4x0.34 shielded gy 8m

Art.No.: 7000-13081-3310800

Weight: 0.469 Country of origin: CZ

Model designation: MSAL0-T331 8.0-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 on request

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

Product details:

Male straight

M12, 4-pole

A-coded

shielded

Plastic housings with good resistance against chemicals and oils.

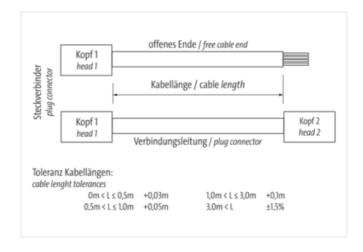
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

Link to Product

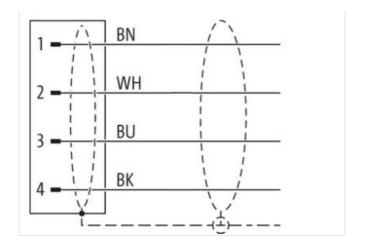
Illustration

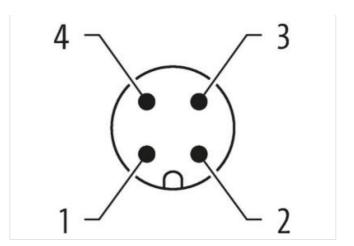


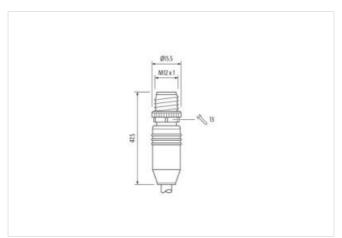




stay connected







Product may differ from Image









Cable length	8 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	4
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: 2025-06-02



ECLASS-8.0 2772618 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETM-6.0 ECO01855 ETM-7.0 ECO01855 ETM-7	ECLASS-6.1	27279218
ECLASS-0.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 EC001855 ETIM-6.0 EC001855 ETIM-6.0 EC001855 ETIM-7.0 EC001855 ETIM-7.0 EC001855 ETIM-8.0 EC001855 ETIM-8.0 EC001855 ETIM-9.0 EC001855 ETIM-9.	ECLASS-7.0	27279218
ECLASS-101 27060311 ECLASS-120 27060311 ECLASS-120 EC001855 ETIM-5.0 EC001855 ETIM-7.0 EC001855 EVENT	ECLASS-8.0	27279218
ECLASS-11.1 27060311 ECLASS-12.0 2700311 ECLASS-12.0 2700311 ECLASS-12.0 1	ECLASS-9.0	27060311
ECLASS-12.0 27960311 ETIM-5.0 EC01955 ETIM-7.0 EC01955 ETIM-7.0 EC01955 ETIM-7.0 EC01955 ETIM-7.0 EC01955 EUTH-7.0 EC01955 EU	ECLASS-10.1	27060311
ETIM-5.0 EC001855 ETIM-7.0 EC001855 ETIM-8.0 EC00185 ETIM-8.0 EC001855 ETIM-8.0 EC00	ECLASS-11.1	27060311
ETIM-6.0 EC001885 ETIM-7.7 EC001885 ETIM-8.0 EC001885 customs tariff number ETIM-8.0 EC001885 customs tariff number ES444290 EAN 4048879610810 EAN 4048879610810 EAN 4048879610810 EAN 4048879610810 Packaging unit 1 Packaging uni	ECLASS-12.0	27060311
ETIM-7.0 EC001855 ETIM-8.0 EC001855 ETIM-8.0 EC001855 CUISTONS COURT STATE HUMBER B\$444290 CUISTONS LATIFF HUMBER B\$444290 EAN 4048879610810 EAN 40488791081 EAN 40488791 EAN 40488791 EAN 40488791 EAN 40488791 EAN 40488791 EAN 40488791 EAN 40488	ETIM-5.0	EC001855
ETIM-8.0 EC001855 customs tariff number 85444290 EAN 4048879610810 EAN 4048879610810 Packaging unit 1 Electrical data Supply Operating voltage AC max. 60 V Operating to the AC Max operating voltage AC Max operating voltage AC Max operating voltage AC Max operating A	ETIM-6.0	EC001855
customs tariff number 85444290 customs tariff number 85444290 customs tariff number 85444290 EAN 4048879610810 EAN 4048879610810 EAN 4048879610810 Peackaging unit 1 Electrical data Supply Operating voltage AC max. 60 V Operating voltage AC max. 4 A Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm Mourning set M12 x 1 Device protection Electrical Additional condition protection degree Installation Installa	ETIM-7.0	EC001855
Cast and Start of Humber	ETIM-8.0	EC001855
EAN 4048879610810 EAN 4048879610810 Packaging unit 1 Pack	customs tariff number	85444290
EAN 4048879610810 Packaging unit 1 Electrical data Supply Operating voltage AC max. 60 V Operating voltage BC max. 60 V Operating voltage DC max. 4 A Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm Mounting set M12 x 1 Device protection Electrical Additional condition protection degree pollution Degree inserted, screwed Pollution Degree 3 Rates are supplied to the supplied of the supplie	customs tariff number	85444290
Packaging unit 1 Deparating voltage AC max. 60 V Operating voltage AC max. 60 V Current operating per contact max. 4 A AC Urrent operating per contact max. 4 A Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm 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 Material data Coating locking Nickeled Coating of litting nickel plated Locking material 2 inc die-casting Material screw connection 2 inserted, screwed, Shaking protection 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 min. 25 °C Additional condition temperature range depending on cable quality Important installation notes Note on strain reiler Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. Note on strain reiler Protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, as the IP protection class can be endangered by excessive bending tradii when laying cables, a	EAN	4048879610810
Packaging unit 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 Stripping length (jacket) 20 mm 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 50664-1) I Material group (IEC 50664-1) I Material group (IEC 50664-1) I Material serve connection Zinc die-casting Material serve wonnection Zinc die-casting Material serve wonnection Zinc die-casting Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic 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 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 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 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 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.	EAN	4048879610810
Electrical 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 Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm Mounting set M12 x 1 Device protection Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 Neet and installation Contection degree inserted, screwed Pollution Degree 1,5 kV Material group (IEC 60664-1) 1 Mechanical data Material data 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 max. 45 °C Operating temperature max. 45 °C Operating temperature max. 45 °C Additional condition temperature range depending on cable quality Important installation notes Note on staff 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 froces.	Packaging unit	1
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 Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm Mounting set M12 x 1 Device protection Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 (next may be accorded or service) 1 to the content of the content or service o	Packaging unit	1
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 Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm Mounting set M12 x 1 Device protection Electrical Additional condition protection degree inserted, screwed Pollution Degree 3 (next may be accorded or service) 1 to the content of the content or service o	Electrical data Supply	
Operating voltage DC max. 60 V Current operating per contact max. 4 A Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm 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 6068-1) I Mechanical data Material data Coating locking nickel plated Locking material Zinc die-casting Material sorew connection Zinc die-casting Material sorew connection Zinc die-casting Material sorew connection Zinc die-casting Material data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature max. 85 °C Operating temperature max. 95		60 V
Current operating per contact max. Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm Mounting set M12 x 1 Device protection Electrical Additional condition protection degree inserted, screwed Pollution Degree 3		
Diagnostics Status indication LED no Installation Connection Stripping length (jacket) 20 mm 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 Material 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 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 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		
Status indication LED no Installation Connection Stripping length (jacket) 20 mm 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 Material data Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Material screw connection Zinc die-casting Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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. Conformity Product standard DIN EN 61076-2-101 (M12) Installation Cable		***
Installation Connection Stripping length (jacket) 20 mm 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 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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °C Operating temperature min25 °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. 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	Diagnostics	
Stripping length (jacket) 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 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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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. Conformity Product standard DIN En 61076-2-101 (M12) Installation Cable	Status indication LED	no
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 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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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. Conformity Product standard DIN En 61076-2-101 (M12) Installation Cable	Installation Connection	
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 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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °C Operating temperature max. 85 °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 endangered by excessive bending forces. Conformity Product standard DIN EN 61076-2-101 (M12) Installation Cable	Stripping length (jacket)	20 mm
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 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 min25 °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. 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	Mounting set	M12 x 1
Pollution Degree 3 Rated surge voltage 1,5 kV Material group (IEC 60664-1) I 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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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. 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	Device protection Electrical	
Rated surge voltage 1,5 kV Material group (IEC 60664-1) I 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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1) 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 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	Pollution Degree	3
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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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	Rated surge voltage	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 Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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	Material group (IEC 60664-1)	T
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 min25 °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	Mechanical data Material data	
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 min25 °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. 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		Nickolod
Locking material Zinc die-casting Material screw connection 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		
Material screw connection Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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		·
Mechanical data Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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	- <u> </u>	
Mounting method inserted, screwed, Shaking protection Environmental characteristics Climatic Operating temperature min25 °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		Zinc die-casting
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		
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		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. 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	Environmental characteristics Climatic	
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	Operating temperature min.	
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.	
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) Installation Cable	Additional condition temperature range	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 Product standard DIN EN 61076-2-101 (M12) Installation Cable	Important installation notes	
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	
Installation Cable	Conformity	
	Product standard	DIN EN 61076-2-101 (M12)
wire arrangement brown, black, blue, white	Installation Cable	
	wire arrangement	brown, black, blue, white

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: 2025-06-02



stay	connected
------	-----------

Cable identification	331
Jacket Color	gray
Amount stranding	1
Stranding	4 wires twisted
Banding	Fleece, Foil
wire arrangement	brown, black, blue, white
Cable weigth	62,26 g/m
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
Material properties wire insulation	good machinability
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 ²
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)	80 °C
Operating temperature min. (dynamic)	-5 °C
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 (fixed)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
No. of bending cycles (C-track)	0,1 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3 m/s @ 25 °C