

## M12 male 0° / M12 female 90° A-cod. LED

PUR 3x0.34 gy UL/CSA 0.6m

## ⚠ NOTICE ⚠ PRODUCT IS DISCONTINUED. PLEASE HAVE A LOOK AT THE ALTERNATIVE PRODUCTS.

Male straight – female 90° M12 – M12, 3-pole

2× LED (PNP), (NPN) on request

Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

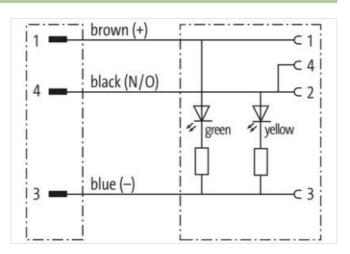
Plastic housings with good resistance against chemicals and oils.

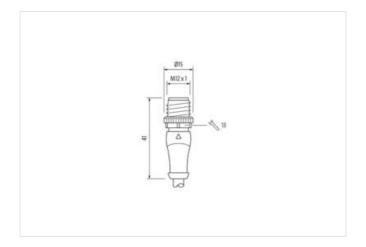
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

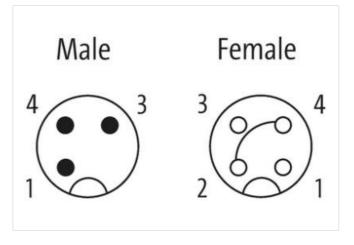
## **Link to Product**

## Illustration



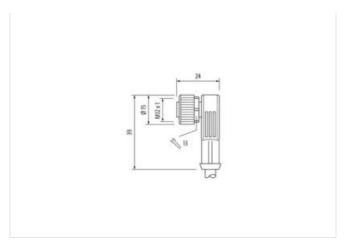








stay connected



Product may differ from Image



Cable length





0,6 m





Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material	PUR
Width across flats	SW13
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879167789

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-06-26



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Electrical data [Supply         24 V           Operating voltage DC min.         19 V           Operating voltage DC min.         30 V           Operating voltage DC max. (U-listed)         30 V           Current operating voltage DC min.         4 A           Installation (Connection         MIZ x 1           Noutring set of management of the production of protection (Electrical and Condition and Condition protection (Electrical and Condition and Con	Packaging unit	1
Operating vallage DC min.         18 V           Operating vallage DC max.         30 V           Operating vallage DC max.         10 V           Current coparating per contact max.         4 A           Installation   Connection         M12 x 1           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         3           Rated surge vallage         0,8 kV           Malerial group (EC 90064-1)         1           Mechanical data   Material data         1           Coating of filing         nickeled           Coating poissing         Nickeled           Coating of filing         nickeled           Locking malerial         Zinc die casting           Mechanical data   Mounting data         Windered casting           Mechanical data   Mounting data         Insortial casting           Mechanical data   Mounting data         Insorted, screwed, Shaking protection           Environmental characteristics   Climatic         Control of the presenture max.         85 °C           Additional condition temperature max.         85 °C         Coperating stemperature max.         85 °C           Operating stemperature max.         85 °C         Control of the protect of the presental period of the protect of the connectors by suita	Electrical data   Supply	
Operating vallage DC min.         18 V           Operating vallage DC max.         30 V           Operating vallage DC max.         10 V           Current coparating per contact max.         4 A           Installation   Connection         M12 x 1           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         3           Rated surge vallage         0,8 kV           Malerial group (EC 90064-1)         1           Mechanical data   Material data         1           Coating of filing         nickeled           Coating poissing         Nickeled           Coating of filing         nickeled           Locking malerial         Zinc die casting           Mechanical data   Mounting data         Windered casting           Mechanical data   Mounting data         Insortial casting           Mechanical data   Mounting data         Insorted, screwed, Shaking protection           Environmental characteristics   Climatic         Control of the presenture max.         85 °C           Additional condition temperature max.         85 °C         Coperating stemperature max.         85 °C           Operating stemperature max.         85 °C         Control of the protect of the presental period of the protect of the connectors by suita	Operating voltage DC	24 V
Operating voltage DC max.         30 V           Operating voltage DC max. (UL isted)         30 V           Current operating procrinated max.         4 A           Installation   Connection         M12 x I           Device protection   Electrical         Additional condition protection degree           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Raided surge voltage         0,8 kV           Mechanical data   Marian data         McCeded           Coating locking         Nickeled           Coating locking         Nickeled           Coating of Itting         rickel plated           Locking material         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Cimate           Environmental characteristics   Climatic         Contracting protection inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Contracting protection inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Si °C           Operating temperature max.         -25 °C           Operating temper		18 V
Current operating per contact max.         4 A           Institution Connection         Moveming set         M12 x 1           Device protection   Electrical         Maintenance of the protection degree         Institution Completed on Protection of Section (Pollution Degree)         3           Rated surge voltage         0,8 kV         Accessing Control (Pollution Degree)         1           Coating plocking         Michaeled         Coating Control (Pollution Degree)         Michaeled Coating of fitting         Incided plated           Coating of fitting         nickled plated         Coating of fitting         Incided plated           Looking marterial         Zinc de-casting         Movemental Control (Pollution Degree)         Zinc de-casting           Mechanical data   Mounting data         Movemental Control (Pollution Degree)         Zinc de-casting         Zinc de-casting           Environmental characteristics   Cilmatic         Cilmatic         Cilmatic         Zinc de-casting         Zinc de-		30 V
Current operating per contact max.         4 A           Institution Connection         Moveming set         M12 x 1           Device protection   Electrical         Maintenance of the protection degree         Institution Completed on Protection of Section (Pollution Degree)         3           Rated surge voltage         0,8 kV         Accessing Control (Pollution Degree)         1           Coating plocking         Michaeled         Coating Control (Pollution Degree)         Michaeled Coating of fitting         Incided plated           Coating of fitting         nickled plated         Coating of fitting         Incided plated           Looking marterial         Zinc de-casting         Movemental Control (Pollution Degree)         Zinc de-casting           Mechanical data   Mounting data         Movemental Control (Pollution Degree)         Zinc de-casting         Zinc de-casting           Environmental characteristics   Cilmatic         Cilmatic         Cilmatic         Zinc de-casting         Zinc de-	Operating voltage DC max. (UL-listed)	30 V
Installation   Connection           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Raled surge voltage         0.8 kV           Machinal group (IEC 60664-1)         I           Mechanical data   Material data         Viceled           Coating looking         Nickeled           Coating of litting         nickel plated           Locking material         Zmc die-casting           Mechanical data   Mounting data         Zmc die-casting           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Cmc           Operating ingenerature min.         25 °C           Operating ingenerature min.         25 °C           Operating ingenerature min.         45 °C           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. <t< td=""><td>Current operating per contact max.</td><td>4 A</td></t<>	Current operating per contact max.	4 A
Device protection   Electrical   Inserted, screwed		
Additional condition protection degree inserted, screwed Pollution Degree 3  Rated surge voltage 0,8 kV Material group (IEC 60684.1) 1  Mechanical data   Material data Coating locking Nickeled Coating locking nickel plated Locking material 2 inches plated Locking material 3 inches plated Locking material 3 inches plated Locking material 4 inches plated Locking material 5 inches plated Locking material 5 inches plated Locking material 6 inches plated Locking material 7 inches plated Locking material 7 inches plated Locking material 7 inches plated Locking material 8 inches plated Locking temperature max. 8 5 °C  Additional condition temperature range depending on cable quality Important installation notes  Locking temperature max. 85 °C  Additional condition temperature range depending on cable quality Linguistic inches plated 8 inches	Mounting set	M12 x 1
Follution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 69684-1)         1           Mechanical data   Material data         Inches plated           Coating of fitting         nickel plated           Locking material         Zino die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Additional condition 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 brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable definitional on ties         DIN EN 61076-2-101 (M12)           Cable definit	Device protection   Electrical	
Follution Degree         3           Rated surge voltage         0,8 kV           Material group (IEC 69684-1)         1           Mechanical data   Material data         Inches plated           Coating of fitting         nickel plated           Locking material         Zino die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Additional condition 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 brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on brain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Cable definitional on ties         DIN EN 61076-2-101 (M12)           Cable definit	Additional condition protection degree	inserted, screwed
Mechanical data   Material data           Coating locking         Nickeled           Coating locking         Nickeled           Coating of litting         rickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           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         depending to make a depending on cable quality           Important Installation notes         Note on bending radius         Aftention: Coserve the permissible bending radi when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         B N 61076-2-101 (M12)         Cable identification         223           Cable         Cable identification         223         Cable identification         223           Cable weign [g/m]         35,97 g         Material wire         Cu wire, bare           Resistor (core)         0.1 mm (multi-strand wire class 6)         Cu mm           Construction (core)         42 € 0.1 mm (multi	Pollution Degree	3
Mechanical data   Material data           Coating locking         Nickeled           Coating locking         Nickeled           Coating of litting         rickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Mechanical data   Mounting data           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         depending to make a depending on cable quality           Important Installation notes         Note on bending radius         Aftention: Coserve the permissible bending radi when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         B N 61076-2-101 (M12)         Cable identification         223           Cable         Cable identification         223         Cable identification         223           Cable weign [g/m]         35,97 g         Material wire         Cu wire, bare           Resistor (core)         0.1 mm (multi-strand wire class 6)         Cu mm           Construction (core)         42 € 0.1 mm (multi		0.8 kV
Mechanical data   Material data   Casting   Dokking   Nickeled   Coating of fitting   Dokking		
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         Very Commental characteristics   Climatic           Operating temperature min.         25 °C           Operating temperature man.         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 brading radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Very Condition (MI2)           Cable         Use (MI) (MI2)           Cable identification         223           Cable identification         223           Cable identification         223           Cable weight [g/m]         35.97 g           Material wire         Cu wire, bare           Resistor (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)	,	
Coating of fitting nickel plated Zinc die-casting Material screw connection Zinc die-casting Meterial screw connection Zinc die-casting Meterial screw connection Zinc die-casting Meterial screw connection inserted, screwed, Shaking protection  Environmental characteristics   Climatic Coperating temperature min. 25 ° C Operating temperature max. 85 ° 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)  Cable Verbound Standard DIN EN 61076-2-101 (M12)  Cable identification 223  Cable Type 2 (PURIPVC) Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform  Cable weight [g/m] 35,97 g  Material wire Core) 0.1 mm  Construction (core) 0.42 × 0.1 mm (multi-strand wire class 6)  Diameter (core) 3.0.34 mm²  AWG similar to AWG 22  Material wire isolation PVC  Material wire isolation CFC, cadmium, silicone- and lead-free Shore hardness wire isolation CFC, cadmium, silicone- and lead-free Shore hardness wire isolation 3 wires twisted Shoeld no bives wide died.	·	AP-1-1-4
Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Volumental characteristics   Climatic           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         Volumental characteristics   Climatic           Product standard         DIN EN 61076-2-101 (M12)           Cable         Cable identification         223           Cable indentification         223           Cable indentification         223           Cable weight [g/m]         35.97 g           Material wire         Quivre, bare           Resistor (core)         Max. 57 (Jkm (20 °C)           Single wire Ø (core)         0.1 mm (multi-strand wire class 6)           Diameter (core)         3 ×		
Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Comparing temperature min.         -25 °C           Operating temperature man.         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)           Cable         Cable dentification         233           Cable identification         223           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-istrand wire class 6)           Diameter (core)         3× 0.34 mm²           Auterial wire isolation         PVC           Material wire isolation         43 ± 5 D           Wire-Q incl. isolat		· · · · · · · · · · · · · · · · · · ·
Mechanical 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)   Cable		<u> </u>
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature may.  Note on strain relief		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)           Cable         Cable identification         223           Cable identification         223           Cable Type         2 (PUR/PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Ou wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3x. 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material wire isolation <td>Mechanical data   Mounting data</td> <td></td>	Mechanical data   Mounting data	
Operating temperature min.         -25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Important installation notes           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.           Conformity         Product standard           DIN EN 61076-2-101 (M12)           Cable         Cable identification           Cable identification         223           Cable identification         223           Cable weight [g/m]         35,97 g           Material wire         Cu (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 x 0.34 mm²           AWG         similar to AWG 22           Material property wire insulation         CFC,	Mounting method	inserted, screwed, Shaking protection
Operating temperature max.  Additional condition temperature range depending on cable quality  Important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Cable  Cable identification 223  Cable Type 2 (PUR/PVC) Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform  Cable weight [g/m] 35,97 g  Material wire Cu wire, bare  Resistor (core) max. 57 Ω/km (20 °C)  Single wire Ø (core) 0.1 mm  Construction (core) 42× 0.1 mm (multi-strand wire class 6)  Diameter (core) 3× 0.34 mm²  AWG similar to AWG 22  Material wire isolation PVC  Material wire isolation PVC  Material wire isolation PVC  Material wire isolation 43 ±5 D  Wire-Ø incl. isolation 1.25 mm ±5% Color/numbering of wires by fixed to the simple of the	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.  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)  Cable  Cable identification 223  Cable IType 2 (PUR/PVC) Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform  Cable weight [g/m] 35,97 g  Material wire Curve, bare  Resistor (core) max. 57 Ω/km (20 °C)  Single wire Ø (core) 0.1 mm  Construction (core) 42× 0.1 mm (multi-strand wire class 6)  Diameter (core) 3× 0.34 mm²  AWG similar to AWG 22  Material wire isolation PVC  Material property wire insulation CFC-, cadmium-, silicone- and lead-free  Shore hardness wire isolation 1.25 mm ±5%  Color/numbering of wires by rice twisted  Shield no	Operating temperature min.	-25 °C
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)           Cable         Cable dentification           223         2 (PUR/PVC)           Cable Type         2 (PUR/PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 (D/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC*, cadmium*, silicone- and lead-free           Shore hardness wire isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted <th< td=""><td>Operating temperature max.</td><td>85 °C</td></th<>	Operating temperature max.	85 °C
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)  Cable  Cable identification 223  Cable Type 2 (PUR/PVC)  Approval (cable) UL (AWM-Style 20549/1731), CSA; CE conform  Cable weight [g/m] 35,97 g  Material wire Cu wire, bare  Resistor (core) max. 57 \( \Omega \text{CM} \text{(m (20 °C)} \)  Single wire \( \Omega \text{ (core)} \)  On truction (core) 42 x 0.1 mm (multi-strand wire class 6)  Diameter (core) 3 x 0.34 mm²  AWG similar to AWG 22  Material wire isolation PVC  Material property wire insulation CFC-, cadmium-, silicone- and lead-free  Shore hardness wire isolation 1.25 mm ±5%  Color/numbering of wires br, bt, bl  Stranding combination 3 wires twisted  Shield no	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)           Cable         Cable           Cable identification         223           Cable Type         2 (PUR/PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ± 5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no	Important installation notes	
Conformity           Product standard         DIN EN 61076-2-101 (M12)           Cable           Cable identification         223           Cable Type         2 (PUR/PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42× 0.1 mm (multi-strand wire class 6)           Diameter (core)         3× 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Cable           Cable identification         223           Cable Type         2 (PUR/PVC)           Approval (cable)         UL (AWM-Style 20549/1731), CSA; CE conform           Cable weight [g/m]         35,97 g           Material wire         Cu wire, bare           Resistor (core)         max. 57 Ω/km (20 °C)           Single wire Ø (core)         0.1 mm           Construction (core)         42 × 0.1 mm (multi-strand wire class 6)           Diameter (core)         3 × 0.34 mm²           AWG         similar to AWG 22           Material wire isolation         PVC           Material property wire insulation         CFC-, cadmium-, silicone- and lead-free           Shore hardness wire isolation         43 ±5 D           Wire-Ø incl. isolation         1.25 mm ±5%           Color/numbering of wires         br, bk, bl           Stranding combination         3 wires twisted           Shield         no	Note on bending radius	
Cable         Cable identification       223         Cable Type       2 (PUR/PVC)         Approval (cable)       UL (AWM-Style 20549/1731), CSA; CE conform         Cable weight [g/m]       35,97 g         Material wire       Cu wire, bare         Resistor (core)       max. 57 Ω/km (20 °C)         Single wire Ø (core)       0.1 mm         Construction (core)       42× 0.1 mm (multi-strand wire class 6)         Diameter (core)       3× 0.34 mm²         AWG       similar to AWG 22         Material wire isolation       PVC         Material property wire insulation       CFC-, cadmium-, silicone- and lead-free         Shore hardness wire isolation       43 ±5 D         Wire-Ø incl. isolation       1.25 mm ±5%         Color/numbering of wires       br, bk, bl         Stranding combination       3 wires twisted         Shield       no	Conformity	
Cable identification223Cable Type2 (PUR/PVC)Approval (cable)UL (AWM-Style 20549/1731), CSA; CE conformCable weight [g/m]35,97 gMaterial wireCu wire, bareResistor (core)max. 57 Ω/km (20 °C)Single wire Ø (core)0.1 mmConstruction (core)42× 0.1 mm (multi-strand wire class 6)Diameter (core)3× 0.34 mm²AWGsimilar to AWG 22Material wire isolationPVCMaterial property wire insulationCFC-, cadmium-, silicone- and lead-freeShore hardness wire isolation43 ± 5 DWire-Ø incl. isolation1.25 mm ±5%Color/numbering of wiresbr, bk, blStranding combination3 wires twistedShieldno	Product standard	DIN EN 61076-2-101 (M12)
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Material wire isolation       PVC         Material property wire insulation       CFC-, cadmium-, silicone- and lead-free         Shore hardness wire isolation       43 ±5 D         Wire-Ø incl. isolation       1.25 mm ±5%         Color/numbering of wires       br, bk, bl         Stranding combination       3 wires twisted         Shield       no	Diameter (core)	3× 0.34 mm²
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Wire-Ø incl. isolation     1.25 mm ±5%       Color/numbering of wires     br, bk, bl       Stranding combination     3 wires twisted       Shield     no	Material property wire insulation	CFC-, cadmium-, silicone- and lead-free
Color/numbering of wires br, bk, bl Stranding combination 3 wires twisted Shield no	Shore hardness wire isolation	43 ±5 D
Stranding combination 3 wires twisted Shield no	Wire-Ø incl. isolation	1.25 mm ±5%
Shield no	Color/numbering of wires	br, bk, bl
	Stranding combination	3 wires twisted
Material jacket PUR/PVC	Shield	no
	Material jacket	PUR/PVC



Material property (jacket)	CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant
Shore hardness jacket	80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)
Outer-Ø (jacket)	4.3 mm ±5%
Color jacket	gray
chemical resistance	good resistance to oil, gasoline and chemicals
Nominal voltage	UL 300 V AC
Test voltage	2000 V AC
Current load capacity	to DIN VDE 0298-4
Temperature range (fixed)	-30+80 °C
Temperature range (mobile)	-5+80 °C
Bending radius (fixed)	10× outer Ø
Bending radius (dynamic)	15× outer Ø
No. of bending cycles (C-track)	max. 2 Mio. (25 °C)
Travel speed (C-track)	max. 3.3 m/s
Acceleration (C-track)	max. 5 m/s <sup>2</sup>