

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

PUR 5x0.34 ye UL/CSA+drag ch. 3.0m

AIDA conform Male straight – female 90° M12 – M12, 5-pole

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

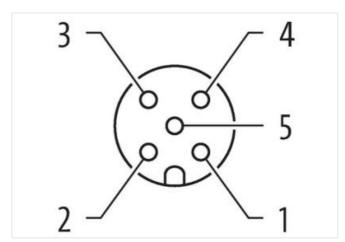
Plastic housings with good resistance against chemicals and oils.

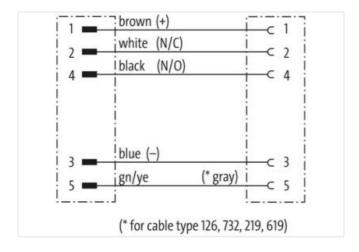
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

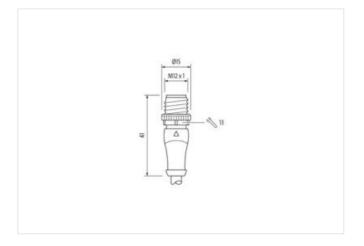
## **Link to Product**

## Illustration



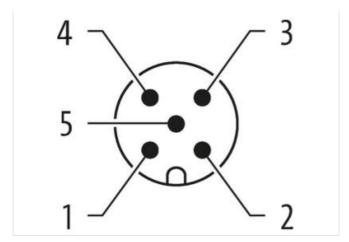


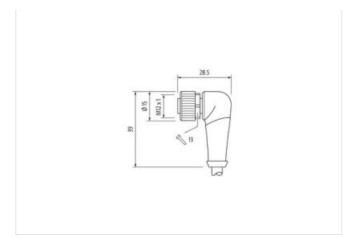






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Product may differ from Image





Cable length	3 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Cable outlet	straight
Coding	A
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Cable outlet	angled
Coding	A
No. of poles	5
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
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	4065909083369

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: 2024-06-23



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Operating voltage DC max.   125 V	Packaging unit	1
Operating voltage DC max.   125 V	Electrical data   Supply	
Operating voltage DC max.   125 V	Operating voltage AC max.	125 V
Operating voitage AC UL island) 30 V Ourrent operating per contact max. 4 A  Povice protection   Electrical  Pollution Degree 3 Rated surge voitage CR UL island 30 V  All and surge voitage 1,5 kV Material group (EC 50584-1) 1  Conting locking Activated Act	Operating voltage DC max.	125 V
Current operating per contact max. 4 A  Device protection   Electrical  Pollution Degree 3  Rated surge-voltage 1,5 kV  Material group (IEC 6664-1) 1  Coating tooking Nickeled  Material powing PPR  Core of the Coating tooking Nickeled  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 bending radius Affairm of the Coating Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Nation of bending radius Affairm of the Coating Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Affairm of the Coating Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Afternion: 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 Windows American Protection Coating P	Operating voltage AC (UL-listed)	30 V
Current operating per contact max. 4 A  Device protection   Electrical  Pollution Degree 3  Rated surge-voltage 1,5 kV  Material group (IEC 6664-1) 1  Coating tooking Nickeled  Material powing PPR  Core of the Coating tooking Nickeled  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 bending radius Affairm of the Coating Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Nation of bending radius Affairm of the Coating Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Note on bending radius Affairm of the Coating Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Afternion: 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 Windows American Protection Coating P		30 V
Polution Degree 3 Raided surge voltage 1.5 kV Material group (IEC 80864-1) 1 Mechanical data   Material data  Mechanical data   Muniformal pata  PUR  Locking material   Demonstration   PUR  Mounting method inserted, sorewed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min. 25 °C  Operating temperature min. 25 °C  Operating temperature may. 25 °C  Operating temperature may. 25 °C  Operating temperature may. 25 °C  Additional condition temperature may. 25 °C  Operating temperature may. 25 °C  Addition to temperature may. 25 °C  Addition (addition tempera		4 A
Rated surge voltage 1,5 kV Malariat proup (FEC 60664-1) 1  Coating looking Noticeled Malariat Inousing PUB Locking marketing PUB Locking marketing Americal data   Mounting data   Mounting method   Inserted, screwed, Shaking protection    Fundamental characteristics   Climatic Poperating temperature min.   25 °C Operating temperature max.   65 °C Operating temperat		
Material group (EC 60664-1)  Mechanical data   Material data  Coating locking Nickaled  Material housing PUR  Locking material Zinc disc-assting  Mechanical data   Mounting data  Mechanical data   Mounting data  Muchunting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Important installation notes  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  wire arrangement  Cable identification  126  Cable Type  3  3  Cable Type  3  3  Cable Gentification  126  Cable Type  3  3  Cable Gentification  148  Cable Type  3  Cable Gentification  15  Cable Gentification  16  Cable Gentification  17  Cable Gentification  18  Cable Type  3  Cable Type  3  Cable Type  3  Cable Type  41,8 g/m  Material yie in Judget All Purchased  Filier  yes  wire arrangement  Cable Well  Cable Well  Filier  yes  Well All Representation  15  Shore An environmental Counter free Cheath)  Material yie in Judget All Representation  PP  Annount diaracter (behanth)  4,8 mm  Coller diameter (behanth)  6acd-free, cadmium-free, CFC-free, halogen-free, silicone-free  A	Pollution Degree	3
Meterial data   Material data Coating locking Nickeled Material housing PIB Locking material Zinc die-casting Mochanical data   Mounting data Mounting method inserted, screwed, Shaking protection Environmental characteristics   Climatic Envir	Rated surge voltage	1,5 kV
Coating looking Nickeled Material housing PUR Locking material Zinde-assing  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Coperating temperature min.  -25 °C 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.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be ordinagred by excessive bending forces.  Conformity  Product standard In 18 6 1076-2-101 (M12)  Installation   Cable  wire arrangement brown, black, blue, white, gray  Cable identification 128  Cable Type 3  3  3.24ckt Cofor yellow  Type of Certificate cURus  Amount stranding 1  Swires around Core tiller twisted  Filler yea  wire arrangement brown, black, blue, white, gray  Cable weight 41.8 ym  Material jacket PuR  Shore hardress jacket PuR  Shore hardress jacket PuR  Amount strandings 1,48 ym  Material jacket Object PuR  Material jacket Object PuR  Material jacket PuR  Shore hardress jacket PuR  Material jacket Object PuR  Material jacket PuR  Materi	Material group (IEC 60664-1)	I
Material housing PUB Locking material Deciding D	Mechanical data   Material data	
Locking material 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 lies.  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  wire arrangement brown, black, blue, white, gray  Cable identification 126  Cable Type 3  3 Jacket Color yellow  Type of Certificate cURus  Amount stranding 1  Stranding 5 wires around Core filler twisted  Filler yes  wire arrangement brown, black, blue, white, gray  Cable weight 41.8 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) 1.25 mm  Outer diameter insulation 1,25 mm  Outer diameter insulation 70±5 Shore D  Ingredient freeness wire insulation 1,25 mm  Outer diameter insulation 1,25 mm  Outer diameter insulation 1,25 mm  Amount strands (wire) 42  Amount strands (wire) 42	Coating locking	Nickeled
Mechanical data   Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min. 25° C Operating temperature min. 85° C Additional condition temperature may 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. Aftention: 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  wire arrangement brown, black, blue, white, gray  Cable identification 126  Gable Type 3  3 alacket Color yellow  Type of Certificate cURus  Amount stranding 1  Stranding 5 wires around Core filler twisted  yes  wire arrangement brown, black, blue, white, gray  Cable weigh 41,8 g/m  Material jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer diameter (jacket) 75 shore D  Ingredient freeness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 1 par-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strandes (wire) 42  Amount strandes wire insulation 1 pad-free, cadmium-free, CFC-free, halogen-free, silicone-free	Material housing	PUR
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min. 25 °C Additional condition temperature max. 85 °C Additional condition temperature max. 84 °C Environmental installation notes Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies. 84 °C Environmental protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12) Installation   Cable  Installation	Locking material	Zinc die-casting
Environmental characteristics   Climatic Operating temperature min.	Mechanical data   Mounting data	
Environmental characteristics   Climatic Operating temperature min.	Mounting method	inserted, screwed, Shaking protection
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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  wire arrangement brown, black, blue, white, gray  Cable identification 126  Cable Type 3  Jacket Color yellow  Type of Certificate cURus  Amount stranding 1  Stranding 5 wires around Core filler twisted  Filler yes  Wire arrangement brown, black, blue, white, gray  Cable weigh 41,8 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 (scheath) ± 5 %  Material wire insulation PP  Amount wires  Outer diameter insulation 1,25 mm  Outer diameter insulation 70 ± 5 Shore D  Ingredient freeness wire insulation 1 lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42		
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Cable Type         3           Jacket Color         yellow           Type of Certificate         cURus           Amount stranding         1           Stranding         5 wires around Core filler twisted           Filler         yes           wire arrangement         brown, black, blue, white, gray           Cable weigth         41,8 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         4,8 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	wire arrangement	brown, black, blue, white, gray
Jacket Color yellow Type of Certificate cURus  Amount stranding 1  Stranding 5 wires around Core filler twisted  Filler yes wire arrangement brown, black, blue, white, gray  Cable weigth 41,8 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 %  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	Cable identification	126
Type of Certificate cURus  Amount stranding 1  Stranding 5 wires around Core filler twisted  Filler yes wire arrangement brown, black, blue, white, gray  Cable weigth 41,8 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,8 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	Cable Type	3
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Cable weigth 41,8 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,8 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	Filler	yes
Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (jacket) 4,8 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	wire arrangement	brown, black, blue, white, gray
Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,8 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	Cable weigth	41,8 g/m
Freedom from ingredients (jacket)  Outer-diameter (jacket)  4,8 mm  Tolerance outer diameter (sheath)  45 %  Material wire insulation  PP  Amount wires  5  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  Shore hardness wire insulation  70 ± 5 Shore D  Ingredient freeness wire insulation  Amount strands (wire)  42	Material jacket	PUR
Outer-diameter (jacket) 4,8 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	Shore hardness jacket	90 ± 5 Shore A
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	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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	Outer-diameter (jacket)	4,8 mm
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	Tolerance outer diameter (sheath)	±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	Material wire insulation	PP
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	Amount wires	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	Outer diameter insulation	1,25 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 42	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 42	Shore hardness wire insulation	70 ± 5 Shore D
	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Diameter of single wires 0,1 mm	Amount strands (wire)	42
	Diameter of single wires	0,1 mm



Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
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	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Flame resistance	UL 1581 § 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)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min