

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

PVC 4x0.34 bk UL/CSA 3m

Art.No.: 7000-40121-6140300

Weight: 0.144 Country of origin: US

Model designation: MSDL0-A-T614\_3.0

# 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 - female 90°

M12 - M12, 4-pole

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

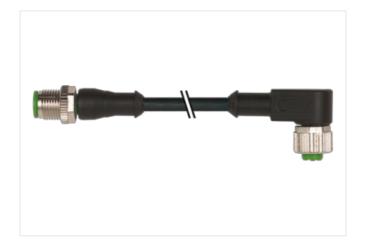
Plastic housings with good resistance against chemicals and oils.

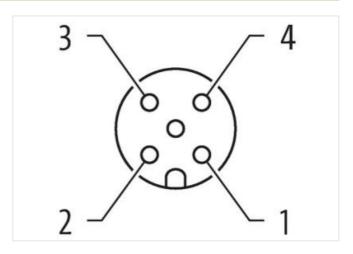
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

## **Link to Product**

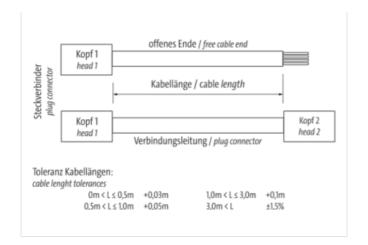
# Illustration



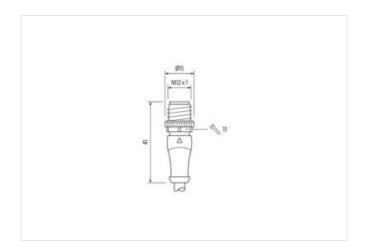


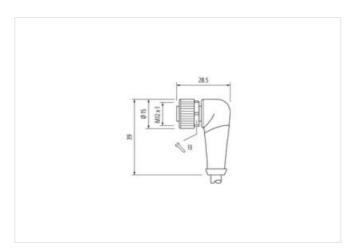


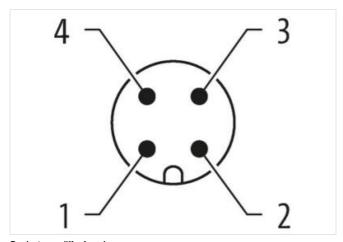
stay connected











Product may differ from Image













Cable length

3 m

Side 1

**Tightening torque** 

0,6 Nm



stay connected

Family construction form         M12           Thread         M12 th           Machine of corrupted tube (internal of the construction of the constructio	Mounting method	inserted, screwed
Times         Mix x 1           Suilable for corrugated tube (internal Ø)         10 mm           Micharian         PUR           Width acoss flats         SW13           Degree of protection (FWIEC 60529)         IPE6, IPE6K, IPE7           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           Material         PUR           Width across flats         SW13           Degree of protection (EWIEC 60529)         PDR           Width across flats         SW13           Degree of protection (EWIEC 60529)         PUR           Width across flats         SW13           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-6.2         27279218           ECLASS-9.0         27279218           ECLASS-9.0         2729218           ECLASS-1.1         27060311           ECLASS-9.1         27060311           ECLASS-1.2         27060311           ECLASS-1.3         27060311           EMA         4044879177	Family construction form	M12
Meterial         PUR           Width across fishs         SW13           Degree of protection (EN IEC 60529)         IP85, IP66K, IP67           Side 2         Type of protection form           Mounting method         Inserted, screwed           Mounting method         M12           Thread         M12 x 1           Width across fishs         SW13           Degree of protection (EN IEC 60529)         IP85, IP66K, IP67           Width across fishs         SW13           Degree of protection (EN IEC 60529)         IP85, IP66K, IP67           Commercial data         Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2         27060311           ECLASS-1.3         27060311           ECLASS-1.4         27060311           ECLASS-1.5         2000185           ECLASS-1.6         2000185           ECLASS-1.7         27060311           ECLASS-1.8         2000185           ECLASS-1.1         27060311		M12 x 1
Width across flats         SW13           Degree of protection (EN IEC 60529)         IPS6, IP66K, IP67           Side 2         Tightening torque         0,6 Mm           Mounting method         Inserted, screwed           Family construction form         M12           Thread         M12 x 1           suitable for corrupated tube (internal 0)         10 mm           Material         PUR           Width across flats         SW13           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-9.1.1         27060311           ECLASS-9.1.2         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.1<	suitable for corrugated tube (internal Ø)	10 mm
Degree of protection (EN IEC 69529)         IP65, IP66K, IP67           Side 2         Tightening torque         0.6 Hm           Mounting method         Inserted, screwed           Family construction form         M12           Thread         M2 x 1           suilable for corrupated tube (internal 0)         10 mm           Material         PUR           Width acrose flats         SW13           Degree of protection (EN IEC 69529)         IP65, IP66K, IP67           Commercial data         CCC.ASS-6.0           ECLASS-7.0         2779218           ECLASS-7.0         2779218           ECLASS-7.0         2779218           ECLASS-8.0         2779218           ECLASS-9.0         2709311           ECLASS-1.1         2709311           ECLASS-1.2         2706311           ECLASS-1.3         2706311           ECLASS-1.1         2708311           ECLASS-1.2.0         2706311           ECLASS-1.1         2708311           ECLASS-1.2.0         2706311           ETIM-5.0         E006185           Custom stariff number         8544290           custom stariff number         8544290           EAN <td>Material</td> <td>PUR</td>	Material	PUR
Side 2           Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Suilable for corrugated tube (internal 0)         10 mm           Material         PUR           Width across fists         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         200           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27779218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2         27060311           ECLASS-1.3         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.3         4004817           EAN         4048879177795           EAN         4048879177795           EAN         4048879177795           EAN         4048879177795           EAN         404887917795           EAN         4079247           Operating voltage	Width across flats	SW13
Tightening torque 0,6 km Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 suitable for corrupated tube (internal 9) Material PUR Width across flats PUR Width across flats SW13 Degree of protection (EN IEC 60529) PIPS, IP66K, IP67 Commercial data ECLASS-6.0 27278218 ECLASS-6.1 27278218 ECLASS-7.0 27278218 ECLASS-8.0 27278218 ECLASS-9.0 27069311 ECLASS-1.1 27069311 ECLASS-1.1 27069311 ECLASS-1.1 27069311 ECLASS-1.1 27069311 ECLASS-1.1 27069311 ETIM-5.0 ECO01855 CUSTOM STIT number SS444290 CUSTOM SHAPPEN SHAPPE	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Mounting method         Inserted, screwed           Family construction form         M12           Trimed         M12 x 1           suitable for corrugated tube (internal O)         10 mm           Matorial         PVR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IPSE, IPSEK, IPS7           Commercial date         PVR           ECLASS-6.0         27279218           ECLASS-6.1         27779218           ECLASS-6.1         27779218           ECLASS-8.0         277060311           ECLASS-8.0         27060311           ECLASS-8.0.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         200311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         200311           ECLASS-1.0         2500311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311	Side 2	
Mounting method         Inserted, screwed           Family construction form         M12           Trimed         M12 x 1           suitable for corrugated tube (internal O)         10 mm           Matorial         PVR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IPSE, IPSEK, IPS7           Commercial date         PVR           ECLASS-6.0         27279218           ECLASS-6.1         27779218           ECLASS-6.1         27779218           ECLASS-8.0         277060311           ECLASS-8.0         27060311           ECLASS-8.0.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         200311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         200311           ECLASS-1.0         2500311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311	Tightening torque	0.6 Nm
Family construction form         M12 x 1           Thread         M12 x 1           willable for corrugated tube (internal 0)         10 mm           Material         PUR           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-9.0         277060311           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ETIM-5.0         65444290           CUSTOR STAIT Flumber         65444290           EAN         4048879177795           EAN         4048879177795           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         250 V		·
Thread         M12 x 1           suitable for corrugated tube (internal 2)         10 mm           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         FUR           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27790311           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311		<u>`</u>
suitable for corrugated tube (internal O)         10 mm           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         ************************************		
Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         [P65, IP66K, IP67]           Commercial data         PUR           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27090311           ETIM-5.0         EC001855           customs tarriff number         85444290           customs tarriff number         85444290           customs tarriff number         8544290           customs tarriff number         8544290           EAN         4048879177795           EAN         4048879177795           Packaging unit         1           Packaging unit         1           Packaging unit         1           Packaging unit portionate max.         4 A           Operating voltage AC max.         250 V           Operating voltage AC max.         250 V           Current operating per contact max.         4 A		
Width across flats   SW13   IP65, IP66K, IP67		
Degree of protection (EN IEC 60329)   P65, IP66K, IP67		
CCLASS-6.0   27279218		
ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27278918           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           customs tariff number         85444290           customs tariff number         8544290           customs tariff number         85444290           customs tariff number         1           Deckaging unit         1           Electrical datai Supply		,,
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         EC01855           customs tariff number         85444290           customs tariff number         85444290           EAN         4048879177795           EAN         4048879177795           Packaging unit         1           Packaging unit         1           Peckaging voltage AC max.         250 V           Operating voltage AC max.         250 V           Operating voltage AC max.         250 V           Operating per contact max.         4 A           Installation   Connection         M12 x 1           Device protection   Electrical         Additional condition protection degree           Material group (EC 60664-1)         1           Mechanical data   Material data         Cactating locking           Coating locking         Nickeled           Coating locking         Nickeled           Coating locking arerial         Zinc die-casting           Moun		
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ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC01855           customs tariff number         85444290           customs tariff mumber         8544290           EAN         4048879177795           EAN         4048879177795           Packaging unit         1           Packaging unit         1           Pectrical data   Supply           Operating voltage AC max.         250 V           Operating voltage DC max.         250 V           Current operating per contact max.         4 A           Installation   Connection         M12 x 1           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         3           Material group (IEC 8066-1)         1           Mechanical data   Material data         Mckeled           Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Mechanical data   Mounting data         Mc		
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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	•	<u>`</u>
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		
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		
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		Nickeled
Locking material  Material screw connection  Zinc die-casting  Mechanical data   Mounting data  Mounting method  inserted, screwed, Shaking protection  Environmental characteristics   Climatic		
Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic		·
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic		
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic		
Environmental characteristics   Climatic		inserted screwed Shaking protection
		moontou, contrata, channing protection
Operating temperature min30 °C	·	
	Operating temperature min.	-30 °C



stay connected

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	
wire arrangement	brown, black, blue, white
Cable identification	614
Cable Type	1
Jacket Color	black
	cURus
Type of Certificate  Amount stranding	1
Stranding	4 wires twisted
wire arrangement	brown, black, blue, white
Cable weigth	40,7 g/m
Material jacket	PVC
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	5 mm
Folerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	4
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	45 ± 5 Shore D
Material properties wire insulation	good machinability
ngredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	19
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Nominal voltage AC max.	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 - acket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature (incer)	-5°C
Operating temperature max. (dynamic)	80 °C
JV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
chemical resistance	
	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter