

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

PUR 4x0.34 bk UL/CSA+robot+drag ch. 1.2m

Male straight – female 90° M12 – M12, 4-pole 3× LED (PNP), (NPN) on request

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

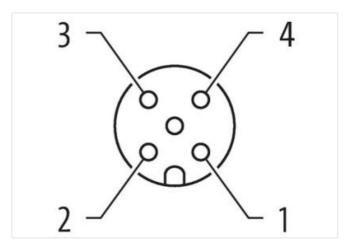
Plastic housings with good resistance against chemicals and oils.

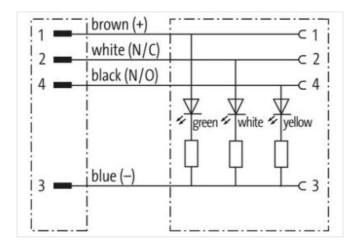
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

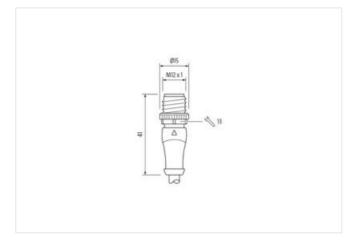
Link to Product

Illustration





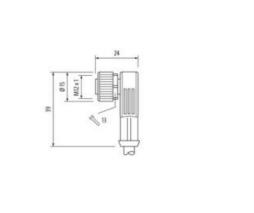






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Product may differ from Image











| 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 (EN IEC 60529) IP66, IP66K, IP67 Side 2 Tightening torque 0,6 Nm Mounting method inserted, screwed Family construction form M12 Thread M12 x 1 Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27660311 ECLASS-10.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060315 EXIND-5.0 ECO01855 <th>Cable length</th> <th>1,2 m</th> | Cable length | 1,2 m |
|---|---|-------------------|
| Mounting method Inserted, screwed | Side 1 | |
| 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 (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 Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-1.1 27060311 ECLASS-1.2 27060311 ETIM-5.0 EC01855 zustoms tariff number 85444290 STIIN 4048879846325 Packaging unit 1 | Tightening torque | 0,6 Nm |
| M12 x 1 | Mounting method | inserted, screwed |
| suitable for corrugated tube (internal Ø) 10 mm Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Side 2 Injection to represent the protection of the protection o | Family construction form | M12 |
| Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Side 2 Fightening 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 (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-9.0 27060311 ECLASS-9.0 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060315 EXIDITION 4048879846325 Packaging unit 1 | Thread | M12 x 1 |
| Side 2 | suitable for corrugated tube (internal Ø) | 10 mm |
| Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Side 2 Fightening 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 (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060315 ECIASS-10.1 27060316 ECLASS-12.0 27060311 ECLASS-12.0 27060315 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 2706031 <td>Material</td> <td>PUR</td> | Material | PUR |
| Side 2 Fightening 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 (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 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 ECLASS-12.0 27060311 ECIASS-12.0 27060311 ECIASS-12.0 27060311 ECIASS-12.0 280001855 Customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | Width across flats | SW13 |
| Fightening 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 (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-9.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECHM-5.0 EC001855 Customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |
| 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 (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-9.0 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 ECO11855 customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | Side 2 | |
| 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 (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 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 | Tightening torque | 0,6 Nm |
| Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 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 ECLASS-12.0 27060311 ECLASS-12.0 85444290 Coustoms tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | Mounting method | inserted, screwed |
| Suitable for corrugated tube (internal Ø) 10 mm Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 17060311 ECLASS-12.0 17060311 | Family construction form | M12 |
| Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data ECLASS-6.0 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 4048879846325 Packaging unit 1 | Thread | M12 x 1 |
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| Degree of protection (EN IEC 60529) IP65, IP66K, IP67 Commercial data Possible of protection (EN IEC 60529) ECLASS-6.0 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 Coustoms tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | Material | PUR |
| Commercial data ECLASS-6.0 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 4048879846325 Packaging unit 1 | Width across flats | SW13 |
| ECLASS-6.0 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 Customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | Degree of protection (EN IEC 60529) | IP65, IP66K, IP67 |
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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 EC001855 Customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | ECLASS-6.0 | 27279218 |
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| ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 Customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | ECLASS-9.0 | 27060311 |
| ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | ECLASS-10.1 | 27060311 |
| ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | ECLASS-11.1 | 27060311 |
| customs tariff number 85444290 GTIN 4048879846325 Packaging unit 1 | ECLASS-12.0 | 27060311 |
| 3TIN 4048879846325 Packaging unit 1 | ETIM-5.0 | EC001855 |
| Packaging unit 1 | customs tariff number | 85444290 |
| | GTIN | 4048879846325 |
| Electrical data Supply | Packaging unit | 1 |
| | Electrical data Supply | |



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| Operating voltage DC | 24 V |
|---|---|
| | |
| Operating voltage DC min. | 18 V |
| Operating voltage DC max. | 30 V |
| Operating voltage DC max. (UL-listed) Current operating per contact max. | 30 V 4 A |
| | 4 A |
| Diagnostics | |
| Status indication LED | green, white, yellow |
| Installation Connection | |
| Mounting set | M12 x 1 |
| Device protection Electrical | |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree | 3 |
| Rated surge voltage | 0,8 kV |
| Material group (IEC 60664-1) | |
| Mechanical data Material data | |
| Coating locking | safe-cover coated |
| Coating locking Coating of fitting | nickel plated |
| Locking material | Zinc die-casting |
| Material screw connection | Zinc die-casting Zinc die-casting |
| Mechanical data Mounting data | Zino dio dadang |
| Mounting method | inserted, screwed, Shaking protection |
| | inserted, screwed, straking protection |
| Environmental characteristics Climatic | |
| Operating temperature min. | -25 °C |
| Operating temperature max. | 85 °C |
| A statistic and the second of | |
| Additional condition temperature range | depending on cable quality |
| Additional condition temperature range Important installation notes | |
| · · | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. |
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| 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 |
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| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable | 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. DIN EN 61076-2-101 (M12) |
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| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color | 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. DIN EN 61076-2-101 (M12) 654 5 black |
| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus |
| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus |
| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus 1 4 wires twisted |
| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus 1 4 wires twisted brown, black, blue, white |
| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus 1 4 wires twisted brown, black, blue, white 36,3 g/m |
| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus 1 4 wires twisted brown, black, blue, white 36,3 g/m PUR |
| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus 1 4 wires twisted brown, black, blue, white 36,3 g/m PUR 58 ± 3 Shore D |
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| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus 1 4 wires twisted brown, black, blue, white 36,3 g/m PUR 58 ± 3 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,7 mm |
| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus 1 4 wires twisted brown, black, blue, white 36.3 g/m PUR 58 ± 3 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,7 mm ± 5 % |
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| Important installation notes Note on strain relief Note on bending radius Conformity Product standard Installation Cable Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires | 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. DIN EN 61076-2-101 (M12) 654 5 black cURus 1 4 wires twisted brown, black, blue, white 36,3 g/m PUR 58 ± 3 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,7 mm ± 5 % PP 4 1,25 mm ± 5 % |
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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: 2024-05-20



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| 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 |
| Traversing distance (C-track) | 5 m @ 25 °C horizontal |
| 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 | 60 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 |
| UV resistance | DIN EN ISO 4892-2 A |
| 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 |
| Travel speed (C-track) | 10 Mio. @ 25 °C |
| No. of torsion cycles | 1 Mio. |
| Torsion stress | ± 360 °/m |
| Torsion speed | 35 cycles/min |