

## M12 male 90° / M8 female 90° A-cod.

PUR 3x0.25 bk UL/CSA+drag ch. 3m

Male 90° - female 90°

M12 - M8, 3-pole

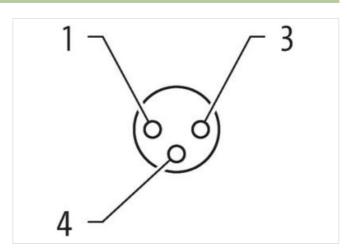
Plastic housings with good resistance against chemicals and oils.

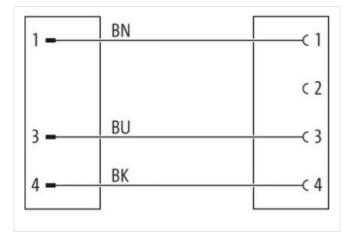
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

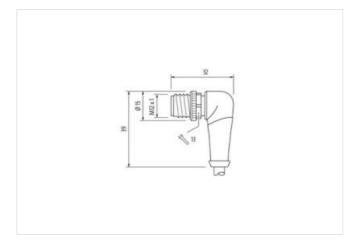
## **Link to Product**

## Illustration



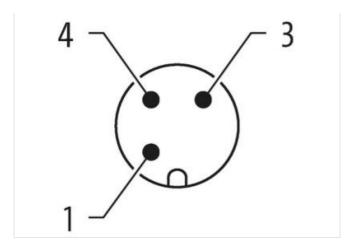


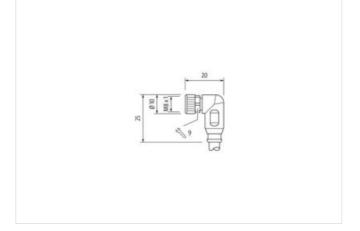






stay connected





Product may differ from Image











Fightening torque         0.6 Nm           Mounting method         inserted, screwed           Financian (Inserted)         M12 (Inserted)           Thread         M12 x 1           Unusuable for corrugated tube (internal O)         10 mm           Material         PUR           Width across flats         SW13           Joegree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Fightening torque         0.4 Nm           Mounting method         inserted, screwed           Financy construction form         M8         M8           Thread         M8 x 1         M8           Inflead         M8 x 1         M8           Vidith across flats         SW9         Peace of protection (EN IEC 60529)         P66K, IP67           Commercial data         CCLASS-6.0         27279218         CCLASS-7.0         27279218           CCLASS-7.0         27279218         CCLASS-8.0         27279218           CCLASS-9.0         27060311         CCLASS-1.1         27060311           CCLASS-1.1         27060311         CCLASS-1.2         27060311           CCLASS-1.2         27060311         CCLASS-1.2         27060311           CCLASS-1.3         4048879303354         Pack	Cable length	3 m
Inserted, screwed   Inserted   Inserted, screwed   Inserted, scr	Side 1	
Family construction form M12  Thread M12 x 1  Tuttade (microary late) (microar	Tightening torque	0,6 Nm
Thread         M12 x 1           Juilable for corrugated tube (internal Ø)         10 mm           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2           Eightening torque         0,4 Nm           Mounting method         inserted, screwed           armity construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Material         PUR           Width across flats         SW9           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27279218           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC01855           sustoms tariff number         85444290           STIN         4048879303354           Packaging unit         1	Mounting method	inserted, screwed
10 mm   Material   PUR   Midth across flats   SW13   P66K, IP67	Family construction form	M12
Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2           Eightening torque         0.4 Nm           Mounting method         inserted, screwed           Finead         M8 x 1           Unitable for corrugated tube (internal Ø)         6.5 mm           Material         PUR           Width across flats         SW9           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060315           ECLASS-12.0         85444290           STIN         4048879303354           Packaging unit         1	Thread	M12 x 1
Midth across flats   SW13     Degree of protection (EN IEC 60529)   IP66K, IP67     Side 2     Tightening torque   0,4 Nm     Mounting method   inserted, screwed     amily construction form   M8     Thread   M8 x 1     Switable for corrugated tube (internal Ø)   6,5 mm     Material   PUR     Midth across flats   SW9     Degree of protection (EN IEC 60529)   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-13.0   ECO01855     Ustoms tariff number   85444290     BTIN   4048879303354     Packaging unit   1	suitable for corrugated tube (internal Ø)	10 mm
Degree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Fightening torque         0,4 Nm           Mounting method         inserted, screwed           amily construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Material         PUR           Width across flats         SW9           Degree of protection (EN IEC 60529)         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-10.1         27060311           ECLASS-10.0         ECO1855           Sustoms tariff number         85444290           3TIN         4048879303354           Packaging unit         1	Material	PUR
Side 2           Trightening torque         0,4 Nm           Mounting method         inserted, screwed           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Material         PUR           Width across flats         SW9           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECHM-5.0         ECO01855           Sustoms tariff number         85444290           STIN         4048879303354           Packaging unit         1	Width across flats	SW13
Eightening torque         0,4 Nm           Mounting method         inserted, screwed           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Material         PUR           Width across flats         SW9           Degree of protection (EN IEC 60529)         IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECHASS-12.0         85444290           BTIN         4048879303354           Packaging unit         1	Degree of protection (EN IEC 60529)	IP66K, IP67
Mounting method         inserted, screwed           Family construction form         M8           Thread         M8 x 1           suitable for corrugated tube (internal Ø)         6,5 mm           Material         PUR           Width across flats         SW9           Degree of protection (EN IEC 60529)         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         EC001855           sustoms tariff number         85444290           Packaging unit         1	Side 2	
Family construction form M8  Thread M8 x 1  Suitable for corrugated tube (internal Ø) 6,5 mm  Material PUR  Midth across flats SW9  Degree of protection (EN IEC 60529) 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 404887930354  Packaging unit 404887930354	Tightening torque	0,4 Nm
M8 x 1    M8 x 1	Mounting method	inserted, screwed
suitable for corrugated tube (internal Ø)         6,5 mm           Material         PUR           Width across flats         SW9           Degree of protection (EN IEC 60529)         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         EC01855           customs tariff number         85444290           GTIN         4048879303354           Packaging unit         1	Family construction form	M8
Material         PUR           Width across flats         SW9           Degree of protection (EN IEC 60529)         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         4048879303354           Packaging unit         1	Thread	M8 x 1
Width across flats   SW9     Degree of protection (EN IEC 60529)   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-12.0   27060311     ECLASS-12.0   27060311     ETIM-5.0   EC001855     Bustoms tariff number   85444290     ETIM-5.0   20060315     ECLASS-10.1   20060315     ECLASS-10.1   20060315     EXAMPLE	suitable for corrugated tube (internal Ø)	6,5 mm
Degree of protection (EN IEC 60529)       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         ETIM-5.0       EC001855         Sustoms tariff number       85444290         GTIN       4048879303354         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           sustoms tariff number         85444290           GTIN         4048879303354           Packaging unit         1	Width across flats	SW9
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 Eustoms tariff number 85444290 ETIM 4048879303354 Packaging unit 1	Degree of protection (EN IEC 60529)	IP66K, IP67
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 Existoms tariff number 85444290 ETIN 4048879303354 Packaging unit 1	Commercial data	
ECLASS-8.0 27279218 ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 Eustoms tariff number 85444290 ETIN 4048879303354 Packaging unit 1	ECLASS-6.0	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 4048879303354 Packaging unit 1	ECLASS-7.0	27279218
ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 Eustoms tariff number 85444290 ETIN 4048879303354 Packaging unit 1	ECLASS-8.0	27279218
ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855 Sustoms tariff number 85444290 ETIN 4048879303354 Packaging unit 1	ECLASS-9.0	27060311
ECLASS-12.0 27060311 ETIM-5.0 EC001855 customs tariff number 85444290 ETIN 4048879303354 Packaging unit 1	ECLASS-10.1	27060311
ETIM-5.0 EC001855 sustoms tariff number 85444290 GTIN 4048879303354 Packaging unit 1	ECLASS-11.1	27060311
customs tariff number         85444290           GTIN         4048879303354           Packaging unit         1	ECLASS-12.0	27060311
95444290 GTIN 4048879303354 Packaging unit 1	ETIM-5.0	EC001855
Packaging unit 1	customs tariff number	85444290
	GTIN	4048879303354
Electrical data   Supply	Packaging unit	1
	Electrical data   Supply	



stay connected

Operating voltage AC max.	FOV
	50 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature min.	85 °C
Additional condition temperature range	depending on cable quality
, , , , , , , , , , , , , , , , , , ,	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	<b>Attention:</b> 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), DIN EN 61076-2-114 (M8)
Installation   Cable	
Cable identification	630
	030
Cable Type	3
Cable Type	3
Cable Type Jacket Color	3 black
Cable Type Jacket Color Type of Certificate	3 black cURus
Cable Type Jacket Color Type of Certificate Amount stranding	3 black cURus 1
Cable Type Jacket Color Type of Certificate Amount stranding Stranding	3 black cURus 1 3 wires twisted
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	3 black cURus 1 3 wires twisted brown, black, blue
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track)	3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth	3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 26,4 g/m
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket	3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 26,4 g/m PUR
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket	3 black cURus 1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 26,4 g/m PUR 90 ± 5 Shore A
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	black cURus  1 3 wires twisted brown, black, blue  10 m @ 25 °C   horizontal  26,4 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 26,4 g/m PUR  90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	3 black cURus  1 3 wires twisted brown, black, blue  10 m @ 25 °C   horizontal  26,4 g/m PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 %
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 26,4 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 % PP 3 1,25 mm
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 26,4 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm ± 5 % PP
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	black cURus  1 3 wires twisted brown, black, blue  10 m @ 25 °C   horizontal  26,4 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free 4,1 mm  ± 5 %  PP  3 1,25 mm  ± 5 %  70 ± 5 Shore D
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	black cURus  1 3 wires twisted brown, black, blue  10 m @ 25 °C   horizontal  26,4 g/m PUR  90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,1 mm ± 5 % PP  3 1,25 mm ± 5 %  70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire)	black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 26,4 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,1 mm ± 5 % PP 3 1,25 mm ± 5 % 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation	black cURus  1 3 wires twisted brown, black, blue  10 m @ 25 °C   horizontal  26,4 g/m PUR  90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,1 mm ± 5 % PP  3 1,25 mm ± 5 %  70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Traversing distance (C-track) Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire)	black cURus  1 3 wires twisted brown, black, blue 10 m @ 25 °C   horizontal 26,4 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,1 mm ± 5 % PP 3 1,25 mm ± 5 % 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free

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: 2024-05-05



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	79 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 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
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	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min