

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

PUR 8x0.25 shielded gy UL/CSA+drag ch. 10m

Male 90° – female straight M12 – M12, 8-pole shielded

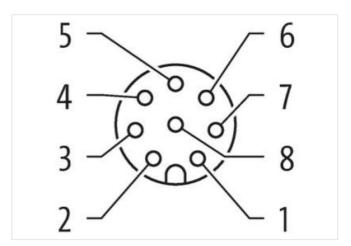
Plastic housings with good resistance against chemicals and oils.

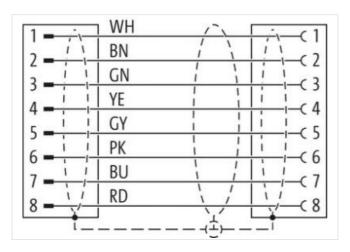
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

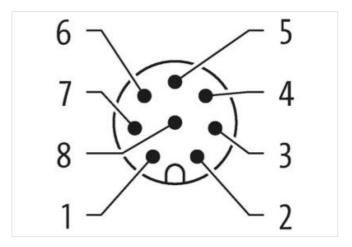
## **Link to Product**

## Illustration



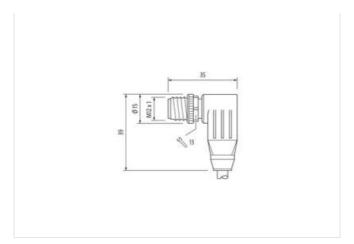


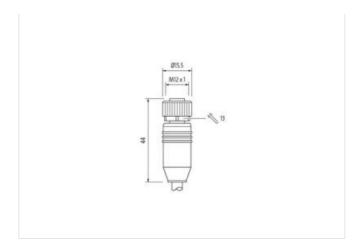






stay connected





Product may differ from Image





Side 1         Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Width across flats         SW13           Side 2         Tightening torque           Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial date           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         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         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage OC (UL-listed)         30 V           Operating	Cable length	10 m
Family construction form   M12	Side 1	
Thread   M12 x 1	Tightening torque	0,6 Nm
Coding         A           Material         PUR           Width across flats         SW13           Side 2           Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         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           ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Family construction form	M12
Material         PUR           Width across flats         SW13           Side 2         Tightening torque         0,6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27660311           ECLASS-9.0         27660311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           Customs tariff number         8544290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V	Thread	M12 x 1
Width across flats         SW13           Side 2         Tightening torque         0,6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-9.0.1         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECTIM-5.0         EC001855           customs tarriff number         85444290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Coding	A
Side 2           Tightening torque         0.6 Nm           Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ECIMS-15.0         EC001855           customs tariff number         85444290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage AC (UL-listed)         30 V	Material	PUR
Tightening torque	Width across flats	SW13
Family construction form         M12           Thread         M12 x 1           Coding         A           Material         PUR           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0.1         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Side 2	
Thread   M12 x 1	Tightening torque	0,6 Nm
Coding         A           Material         PUR           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         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Family construction form	M12
Material         PUR           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         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Thread	M12 x 1
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         4048879138956           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         30 V           Operating voltage DC max.         30 V           Operating voltage AC (UL-listed)         30 V	Coding	A
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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 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-6.0	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 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-6.1	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 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-7.0	27279218
ECLASS-10.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-8.0	27279218
ECLASS-11.1 27060311  ECLASS-12.0 27060311  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V	ECLASS-9.0	27060311
ECLASS-12.0 27060311  ETIM-5.0 EC001855 customs tariff number 85444290  GTIN 4048879138956 Packaging unit 1  Electrical data   Supply Operating voltage AC max. 30 V Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V	ECLASS-10.1	27060311
ETIM-5.0		
customs tariff number 85444290 GTIN 4048879138956 Packaging unit 1  Electrical data   Supply Operating voltage AC max. 30 V Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V		27060311
GTIN 4048879138956  Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V		
Packaging unit 1  Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V		85444290
Electrical data   Supply  Operating voltage AC max. 30 V  Operating voltage DC max. 30 V  Operating voltage AC (UL-listed) 30 V		4048879138956
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Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V	Electrical data   Supply	
Operating voltage DC max. 30 V Operating voltage AC (UL-listed) 30 V	Operating voltage AC max.	30 V
	Operating voltage DC max.	30 V
Operating voltage DC (UL-listed) 30 V	Operating voltage AC (UL-listed)	30 V
	Operating voltage DC (UL-listed)	30 V

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: 2024-05-11



Device of protection (EN IEC 08020)         IPES. IPE7. IPESK           Pollution Degree of protection (EN IEC 08020)         IPES. IPE7. IPESK           Pollution Degree of Deptember of State of St	Current operating per contact max.	2 A
Faltation Degree 3 Rated surge voltage 0,8 kV  Machanial group [ICE 05064-1)   1  Machanial drise   Material disa  Coating looking material 2-re discasting  Machanial drise   Material disa  Coating looking material 2-re discasting  Machanial drise   Mounting data  Machanial characteristics   Climatic  Corealing inspondanture max. 90 °C  Additional condition temperature range depending on cable quality  Important installation notes  Important installation notes  Note on sharin drise   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.  Attention: Chiesner the permissible bending radis when laying cables, as the IP protection class can be endangered by exceessive bending forces.  Conformity  Product a standard   Description of the permissible bending radis when laying cables, as the IP protection class can be endangered by exceessive bending forces.  Coation (Cable Standard   Description of the permissible bending radis when laying cables, as the IP protection class can be endangered by exceessive bending forces.  Cable identification   291  Cable identification   291  Cable identification   291  Standard   Gerification   291  Standard   Gerification   291  Standard   Gerification   291  Standard   Gerification   291  Standard   Standard   291  St	Device protection   Electrical	
Faltation Degree 3 Rated surge voltage 0,8 kV  Machanial group [ICE 05064-1)   1  Machanial drise   Material disa  Coating looking material 2-re discasting  Machanial drise   Material disa  Coating looking material 2-re discasting  Machanial drise   Mounting data  Machanial characteristics   Climatic  Corealing inspondanture max. 90 °C  Additional condition temperature range depending on cable quality  Important installation notes  Important installation notes  Note on sharin drise   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable lies.  Attention: Chiesner the permissible bending radis when laying cables, as the IP protection class can be endangered by exceessive bending forces.  Conformity  Product a standard   Description of the permissible bending radis when laying cables, as the IP protection class can be endangered by exceessive bending forces.  Coation (Cable Standard   Description of the permissible bending radis when laying cables, as the IP protection class can be endangered by exceessive bending forces.  Cable identification   291  Cable identification   291  Cable identification   291  Standard   Gerification   291  Standard   Gerification   291  Standard   Gerification   291  Standard   Gerification   291  Standard   Standard   291  St	Degree of protection (EN IEC 60529)	IP65, IP67, IP66K
Rated reading oncy (IEC 50564-1)         I           Moterating group (IEC 50564-1)         I           Moterating dougle (IEC 50564-1)         Nickeled           Lobbing readinal (IEC) (IEC		· · ·
Methorial data   Material data   Zinc die casting   Mechanical data   Mounting material   Zinc die casting   Mechanical data   Mounting material   Inserted, screwed, Shaking protection   Provincemental characteristics   Climatic   Ciperating temperature min.   25 °C   Concarding temperature min.   25 °C   Concarding temperature min.   26 °C   Concarding temperature min.   2		0.8 kV
Mechanical data   Material data   Mounting data   Zinc die-casting		<u> </u>
Coating looking Nickeled   Zim dis-ceating   Zi		
Locking material Zinc die casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.	·	Niglealed
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Coperating temperature min.		
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min 25 °C Operating temperature max. 80 °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. Note on bending radius Attention: Observe the purmissible 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  Cable identification   291 Cable identificat		Zinc die-casting
Protection temperature min.		
Operating temperature min25 °C Operating temperature max. 80 °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 broses.  Contomity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 291  Cable 17ype 3  3  3  3  3  3  3  3  3  3  3  3  3	Mounting method	inserted, screwed, Shaking protection
Operating temperature max. 80 °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 endanged by excessive bending forces.  Conformity Product standard DIN EN 61076-2-101 (M12) Installation   Cable   Cable identification   291 Cable to Installation   Cable   Cable identification   291 Cable Type 3 Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding 8 wires around Core filler twisted Cable shielding (type) copper braid, timed Cable shielding (coverage) 80 % Banding Fleece, Foil   Filler yes wire arrangement brown, white, red, blue, pink, gray, yellow, green Traversing distance (C-track) 5 m @ 25 °C   horizontal Cable weight 78,1 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket)   Endermore the cadmium-free, CFC-free, halogen-free, silicone-free Outer-diameter (facket) 7 nm  Outer diameter (backet) 70 ± 5 Shore D Ingredient freence core insulation 1.2 mm  Outer diameter rolerance core insulation 2.2 Shore D Ingredient freences wire insulation   Ingredient	Environmental characteristics   Climatic	
Additional condition temperature range important installation notes  Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Atention: 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  Cable identification 291  Cable Type 3  Cable Type 3  Anount stranding 1  Stranding 8 wires around Core filler fwisted  Cable shelding (coverage) 80 %  Cable shelding (coverage) 80 %  Banding Fleece, Foll  Filler yes  wire arrangement brown, white, red, blue, pink, gray, yellow, green  Traversing distance (C-track) 5 m@ 25 * Ci   horizontal   Cable weigh 78,1 gm  Material jacket 90 ± 5 * Shore A  Freedom from ingredients (jacket)   PP  Anount wires  Material wire insulation PP  Anount wires 8  Material wire insulation 1, 2 mm  Outer diameter (stacket) 70 ± 5 * Shore D  Ingredient freeness wire insulation   P102 5 mm²  Material conductor wire 9 C52 mm²	Operating temperature min.	-25 °C
Note on strain relief	Operating temperature max.	0° 08 °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)  Installation   Cable   Cable (Installation	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.  DIN EN 61076-2-101 (M12)  Installation   Cable  Cable (dentification 291  Cable Type 3  Jacket Color gray Type of Certificate cURus  Amount stranding 1  Save as a service of the servi	Important installation notes	
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.  DIN EN 61076-2-101 (M12)  Installation   Cable  Cable (dentification 291  Cable Type 3  Jacket Color gray Type of Certificate cURus  Amount stranding 1  Save as a service of the servi	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
endangered by excessive bending forces.  Conformity  Product standard  Installation (Cable  Cable identification  291  Cable (Coor gray  Type of Cartificate  Amount stranding  1  Stranding  8 wires around Core filler twisted  Cable shielding (type)  Cable shielding (type)  Cable shielding (coverage)  80 %  Banding  Fleece, Foil  Filler  yes  wire arrangement  brown, white, red, blue, pink, gray, yellow, green  Traversing distance (C-track)  5 m @ 25 °C   horizontal  Cable weight  Material jacket  PUR  Material jacket  Pure  Outer diameter (placket)  7 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Material wire insulation  1,2 mm  Outer diameter (solarence oure insulation  1,2 mm  Outer diameter (solarence oure insulation  1,2 sm  Outer diameter (solarence oure insulation  1,2 sm  Outer diameter (solarence oure insulation  1,2 sm  Outer diameter (solarence oure insulation  1,2 s Shore In  Ingredient freeness wire insulation  7 o ± 5 Shore In  Ingredient freeness wire insulation  7 o ± 5 Shore In  Ingredient freeness wire insulation  1,2 mm  Outer diameter (solarence oure insulation  1,2 s Shore In  Ingredient freeness wire insulation  7 o ± 5 Shore In  Ingredient freeness wire insulation  1,2 s Shore In  Ingredient freeness wire insulation  7 o ± 5 Shore In  Ingredient freeness wire insulation  1,2 s Shore	-	
Product standard         DIN EN 61076-2-101 (M12)           Installation   Cable           Cable identification         291           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         78,1 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         7 mm           Tolerance outer diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter tolerance core insulation         1,2 mm           Outer diameter folerance core insulation         7 ± 5 Shore D      <	Note on bending radius	
Installation   Cable           Cable identification         291           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weight         78,1 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         7 mm           Tolerance outer diameter (sketh)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter insulation         1,2 mm           Outer diameter insulation         1,2 mm           Outer diameter insulation </td <td>Conformity</td> <td></td>	Conformity	
Cable Interception         291           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigh         78,1 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1 geat-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter tolerance core insulation         2 to 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D	Product standard	DIN EN 61076-2-101 (M12)
Cable Interception         291           Cable Type         3           Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigh         78,1 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         1 geat-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter tolerance core insulation         2 to 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D	Installation   Cable	
Cable Type         3           Jacket Color         gray           Type of Certificate         cURUS           Amount stranding         1           Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, tinned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         78.1 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)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter (sheath)         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, ha		201
Jacket Color         gray           Type of Certificate         cURus           Amount stranding         1           Stranding         8 wires around Core filler twisted           Cable shielding (type)         copper braid, finned           Cable shielding (coverage)         80 %           Banding         Fleece, Foil           Filler         yes           wire arrangement         brown, white, red, blue, pink, gray, yellow, green           Traversing distance (C-track)         5 m @ 25 °C   horizontal           Cable weigth         78.1 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)         7 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         8           Outer diameter insulation         1,2 mm           Outer diameter tolerance core insulation         ± 5 %           Shore hardness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1ead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amoun		
Type of Certificate cURus  Amount stranding 1  Stranding 8 wires around Core filler twisted  Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil  Filler yes wire arrangement brown, white, red, blue, pink, gray, yellow, green  Traversing distance (C-track) 5 m@ 25 °C   horizontal  Cable weigh 78,1 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Couter diameter tolerance core insulation 1,2 mm  Outer diameter tolerance core insulation 1,2 mm  Outer diameter tolerance core insulation 1,2 mm  Outer diameter tolerance core insulation 1,2 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare  Material conductor wire Stranded copper wire, bare	-	
Amount stranding 1 Stranding 8 wires around Core filler twisted Cable shielding (type) copper braid, tinned Cable shielding (coverage) 80 % Banding Fleece, Foil Filler yes wire arrangement brown, white, red, blue, pink, gray, yellow, green Traversing distance (C-track) 5 m @ 25 °C   horizontal Cable weigth 78,1 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) 7 mm Amount wires 8 Outer diameter insulation 1,2 mm Outer diameter tolerance core insulation 5 ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Ongredient freeness wire insulation 1,2 mm Outer diameter tolerance core insulation 2 ± 5 % Shore hardness wire insulation 1,2 mm Outer diameter folerance core insulation 2 ± 5 % Shore hardness wire insulation 1 = 4 5 % Shore hardness wi		
Stranding 8 wires around Core filler twisted  Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil  Filler yes wire arrangement brown, white, red, blue, pink, gray, yellow, green  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 78,1 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) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 mm  Outer diameter tolerance core insulation 5 ± 5 %  Shore hardness wire insulation 70 ± 5 Shore D  Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Onlameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare		
Cable shielding (type) copper braid, tinned  Cable shielding (coverage) 80 %  Banding Fleece, Foil  Filler yes wire arrangement brown, white, red, blue, pink, gray, yellow, green  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 78,1 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) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 mm  Outer diameter tolerance core insulation ± 5 %  Shore hardness wire insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare		8 wires around Core filler twisted
Cable shielding (coverage)       80 %         Banding       Fleece, Foil         Filler       yes         wire arrangement       brown, white, red, blue, pink, gray, yellow, green         Traversing distance (C-track)       5 m @ 25 °C   horizontal         Cable weigth       78,1 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)       7 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       8         Outer diameter isulation       1,2 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)       32         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,25 mm²         Material conductor wire       Stranded copper wire, bare		copper braid, tinned
Banding Fleece, Foil  Filler yes wire arrangement brown, white, red, blue, pink, gray, yellow, green  Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 78,1 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) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare		
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Traversing distance (C-track) 5 m @ 25 °C   horizontal  Cable weigth 78,1 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) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Filler	yes
Cable weigth 78,1 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) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	wire arrangement	brown, white, red, blue, pink, gray, yellow, green
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) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Traversing distance (C-track)	5 m @ 25 °C   horizontal
Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 7 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Cable weigth	78,1 g/m
Freedom from ingredients (jacket)  Outer-diameter (jacket)  7 mm  Tolerance outer diameter (sheath)  ±5 %  Material wire insulation  PP  Amount wires  8  Outer diameter insulation  1,2 mm  Outer diameter tolerance core insulation  \$\pmathrm{\frac{\pmathrm{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\frac{\pmathrm{\pmathrm{\frac{\pmathrm	Material jacket	PUR
Outer-diameter (jacket)  7 mm  Tolerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  8  Outer diameter insulation  1,2 mm  Outer diameter tolerance core insulation  \$\frac{\pm}{2}\$ \$\frac{\pm}{2}\$\$  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)  32  Diameter of single wires  0,1 mm  Conductor crosssection (wire)  0,25 mm²  Material conductor wire  Stranded copper wire, bare	Shore hardness jacket	90 ± 5 Shore A
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 8  Outer diameter insulation 1,2 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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Outer-diameter (jacket)	7 mm
Material wire insulation       PP         Amount wires       8         Outer diameter insulation       1,2 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)       32         Diameter of single wires       0,1 mm         Conductor crosssection (wire)       0,25 mm²         Material conductor wire       Stranded copper wire, bare		±5%
Outer diameter insulation     1,2 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)     32       Diameter of single wires     0,1 mm       Conductor crosssection (wire)     0,25 mm²       Material conductor wire     Stranded copper wire, bare	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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Amount wires	8
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) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Outer diameter insulation	1,2 mm
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Amount strands (wire) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 32  Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,1 mm  Conductor crosssection (wire) 0,25 mm²  Material conductor wire Stranded copper wire, bare	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 0,25 mm <sup>2</sup> Material conductor wire Stranded copper wire, bare	Amount strands (wire)	32
Material conductor wire Stranded copper wire, bare	Diameter of single wires	0,1 mm
<u> </u>	Conductor crosssection (wire)	0,25 mm <sup>2</sup>
Conductor type (wire) strand class 6	Material conductor wire	···
	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	3 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 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	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	5 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min