

## M12 male 0° A-cod. / MSUD valve plug CI-9.4mm

PUR 3x0.75 gy UL/CSA+drag ch. 0.9m

**MSUD** 

Form CI (9.4 mm) - M12, male straight

24 V AC ±20% / DC ±25%

LED and suppression

Further cable lengths on request.

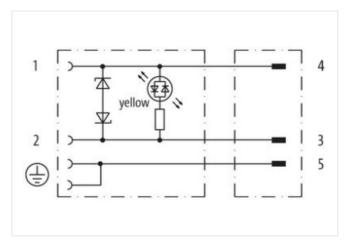
Plastic housings with good resistance against chemicals and oils.

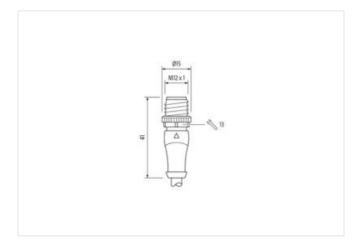
The resistance to aggressive media should be individually tested for your application. Further details on request.

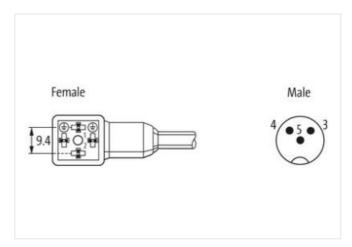
## **Link to Product**

## Illustration



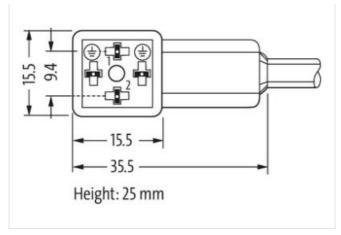








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Product may differ from Image



Side 1         Tightening torque         0.4 Nm           Family construction form         MSUD CI           Thread         M3           No. of poles         4           Degree of protection (EN IEC 60529)         IP67           Side 2           Side 2           Tightening torque           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 8.0         27279218           ECLASS 8.0         27279218           ECLASS 9.0         27060312           ECLASS 9.0         27060312           ECLASS 9.1.1         27060312           ECLASS 9.2         27060312           ECLASS 9.3         ECOMPAN 9.2           ECLASS 9.0         ECOMPAN 9.2           ECLASS 9.0         ECOMPAN 9.2           ECLA	Cable length	0,9 m
Family construction form MSUD CI Thread M3 No. of poles 4 Degree of protection (EN IEC 60529) IP67  Side 2 Tightening torque 0,6 Nm Family construction form M12 Thread M12 x 1 suitable for corrugated tube (internal Ø) 10 mm Coding A No. of poles 3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67  Commercial data ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-10.1 27060312	Side 1	
Thread	Tightening torque	0,4 Nm
No. of poles         4           Degree of protection (EN IEC 60529)         IP67           Side 2         T           Tightening torque         0,6 Nm           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data         ECLASS-6.0         27279218           ECLASS-6.1         27279218         ECLASS-7.0         27279218           ECLASS-7.0         27279218         ECLASS-9.0         27060312           ECLASS-9.0         27060312         ECLASS-9.0         27060312           ECLASS-11.1         27060312         ECLASS-12.0         27060312           ECLASS-12.0         EC001855         Customs tariff number         85444290           GTIN         4048879146890           Packaging unit         1         Electrical data           Drop-out delay time max.         20 ms	Family construction form	MSUD CI
Degree of protection (EN IEC 60529)   IP67	Thread	M3
Side 2           Tightening torque         0,6 Nm           Family construction form         M12           Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data         ECLASS-6.0           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-11.1         27060312           ECLASS-11.5.0         EC001855           customs tariff number         85444290           GTIN         4048879146890           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	No. of poles	4
Tightening torque 0,6 Nm  Family construction form M12  Thread M12 x 1  suitable for corrugated tube (internal Ø) 10 mm  Coding A  No. of poles 3  Width across flats SW13  Degree of protection (EN IEC 60529) IP67  Commercial data  ECLASS-6.0 27279218  ECLASS-6.1 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27060312  ECLASS-9.0 27060312  ECLASS-11.1 27060312  ECLASS-11.1 27060312  ECLASS-12.0 27060312  ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879146890  Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms	Degree of protection (EN IEC 60529)	IP67
Family construction form M12  Thread M12 x 1  suitable for corrugated tube (internal Ø) 10 mm  Coding A  No. of poles 3  Width across flats SW13  Degree of protection (EN IEC 60529) IP67  Commercial data  ECLASS-6.0 27279218  ECLASS-6.1 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27260312  ECLASS-9.0 27060312  ECLASS-1.1 27060312  ECLASS-1.1 27060312  ECLASS-1.1 27060312  ECLASS-1.1 27060312  ECLASS-1.1 27060312  ECLASS-1.0 27060312  ECLASS-1.1 27060312  ECLASS-1.2 27	Side 2	
Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879146890           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	Tightening torque	0,6 Nm
suitable for corrugated tube (internal Ø)         10 mm           Coding         A           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879146890           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	Family construction form	M12
Coding         A           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879146890           Packaging unit         1           Electrical data         Drop-out delay time max.         20 ms	Thread	M12 x 1
No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879146890           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms	suitable for corrugated tube (internal Ø)	10 mm
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879146890           Packaging unit         1           Electrical data           Drop-out delay time max.         20 ms		A
Degree of protection (EN IEC 60529)   IP67		
Commercial data         ECLASS-6.0       27279218         ECLASS-6.1       27279218         ECLASS-7.0       27279218         ECLASS-8.0       27279218         ECLASS-9.0       27060312         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879146890         Packaging unit       1         Electrical data       Drop-out delay time max.       20 ms	Width across flats	SW13
ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879146890 Packaging unit 1  Electrical data Drop-out delay time max. 20 ms	Degree of protection (EN IEC 60529)	IP67
ECLASS-6.1       27279218         ECLASS-7.0       27279218         ECLASS-8.0       27279218         ECLASS-9.0       27060312         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879146890         Packaging unit       1         Electrical data         Drop-out delay time max.       20 ms	Commercial data	
ECLASS-7.0       27279218         ECLASS-8.0       27279218         ECLASS-9.0       27060312         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879146890         Packaging unit       1         Electrical data         Drop-out delay time max.       20 ms	ECLASS-6.0	27279218
ECLASS-8.0       27279218         ECLASS-9.0       27060312         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879146890         Packaging unit       1         Electrical data         Drop-out delay time max.       20 ms	ECLASS-6.1	27279218
ECLASS-9.0       27060312         ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879146890         Packaging unit       1         Electrical data         Drop-out delay time max.       20 ms	ECLASS-7.0	27279218
ECLASS-10.1       27060312         ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879146890         Packaging unit       1         Electrical data         Drop-out delay time max.       20 ms	ECLASS-8.0	27279218
ECLASS-11.1       27060312         ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879146890         Packaging unit       1         Electrical data         Drop-out delay time max.       20 ms	ECLASS-9.0	27060312
ECLASS-12.0       27060312         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879146890         Packaging unit       1         Electrical data         Drop-out delay time max.       20 ms	ECLASS-10.1	27060312
ETIM-5.0 EC001855  customs tariff number 85444290  GTIN 4048879146890  Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms		
customs tariff number         85444290           GTIN         4048879146890           Packaging unit         1           Electrical data         Drop-out delay time max.         20 ms		
GTIN 4048879146890 Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms		EC001855
Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms		
Electrical data  Drop-out delay time max. 20 ms		4048879146890
Drop-out delay time max. 20 ms	Packaging unit	1
	Electrical data	
Electrical data   Supply	Drop-out delay time max.	20 ms
	Electrical data   Supply	



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Operating voltage AC	24 V
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	,
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0.8 kV
Mechanical data   Material data	
·	
Color housing	black
Material housing	Plastic
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on strain relief	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	
Note on bending radius  Conformity	endangered by excessive bending forces.
·	endangered by excessive bending forces.
Conformity Product standard	
Conformity Product standard Installation   Cable	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)
Conformity Product standard Installation   Cable wire arrangement	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow
Conformity Product standard Installation   Cable wire arrangement Cable identification	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black)
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Type of Certificate	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow  236  3  white (isolation black)  gray  cURus  1  3 wires twisted
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Printing color of wire insulation Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  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)	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 %
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  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	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 % PP
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Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  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  Outer diameter insulation	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 % PP 3 1,85 mm
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  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  Outer diameter insulation  Outer diameter tolerance core insulation	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 % PP 3 1,85 mm ± 5 %
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Printing color of wire insulation  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  Outer diameter insulation	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12); DIN EN 175301-803 (Ventilstecker)  black 1, black 2, green-yellow 236 3 white (isolation black) gray cURus 1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 % PP 3 1,85 mm



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Printing color of wire insulation	white (isolation black)
Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Flame resistance	UL 1581 § 1090   IEC 60332-2-2   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
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min