

2

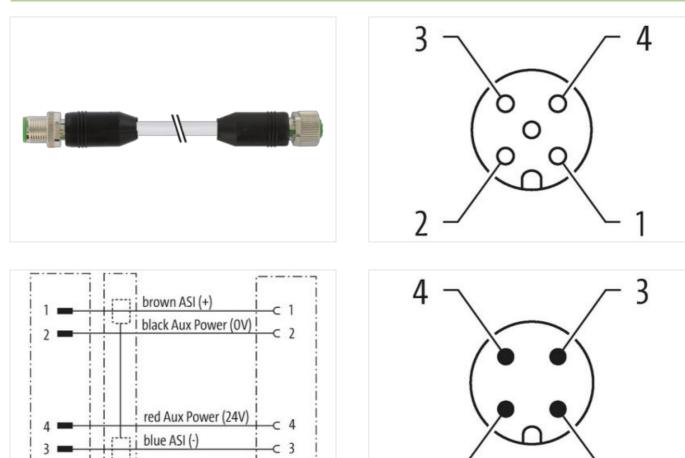
M12 male 0° / M12 female 0° A-cod. shielded

PUR ((2x0.75)C + 2x0.75)C shielded gy UL 1m

AS-Interface Male straight – female straight M12 – M12, 4-pole with cable sleeves 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

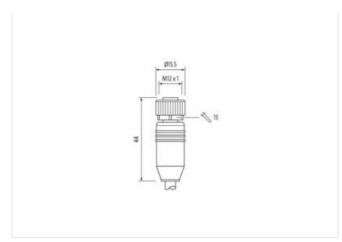




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shield





Product may differ from Image



Cable length	1 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Coding	A
Material contact	Copper alloy
No. of poles	4
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879848749
Packaging unit	1

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Electrical data Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Coating locking	Nickeled
Material gasket	FKM
Locking material	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
-	inserted, sciewed, onaking protection
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 bending radius	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
Cable identification	494
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 wires with Stranding combination with 2 Hatchet strand twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Pair shielding (type)	Metal foil
Banding	Fleece, Foil
wire arrangement	(brown, blue), black, red
Cable weigth	100,1 g/m
Material jacket	PUR
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	7,6 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	2
Outer diameter insulation	2,5 mm

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Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Anount strands (wire) 42 Diameter of single wires 0,15 mm Conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material conductor wire insulation (Data) PP Outer diameter wire insulation (Data) 1,7 mm Tolerance outer diameter wire insulation (Data) 16 5 % Shore hardness wire insulation (Data) 12 5 Shore D Ingredient freeness wire insulation (Data) 12 4 2 Amount strands wire (Data) 2 Amount strands wire (Data) 0,75 mm ² Conductor crossection wire (Data) 0,75 mm ² Material conductor wire (Data) 5 m @ 25 °C Norminal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 028e.4 Current load capacity (standard) to DIN VDE 028e.4 Current load capacity (wire - wire) 2 KV	Outer diameter tolerance core insulation	±5%
Amount strands (wire) 42 Diameter of single wires 0.15 mm² Conductor crosssection (wire) 0.75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material advice insulation (Data) PP Outer diameter wire insulation (Data) 1.7 mm Tolerance outer diameter wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 12 ± 5 % Shore hardness wire insulation (Data) 12 ± 5 Shore D Ingredient freeness wire insulation (Data) 2 Amount strands wire (Data) 2 Amount wires (Data) 2 Amount wires (Data) 0.75 mm² Conductor rosssection wire (Data) 0.75 mm² Material conductor wire (Data) 0.75 mm² Conductor type (Data) 0.75 mm² Material conductor wire (Data) 0.75 mm² Material conductor wire (Data) 0.75 mm² Conductor type (Data) 5 mare 25 °C Nominal voltage AC max. 300 V Current load capacity min. wire 9.6 A	Shore hardness wire insulation	70 ± 5 Shore D
Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material vire insulation (Data) PP Outer diameter wire insulation (Data) PP Outer diameter wire insulation (Data) 1,7 mm Tolerance outer diameter wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 2 Amount wires (Data) 2 Amount wires (Data) 42 Diameter of single wires (Data) 0,15 mm Conductor vire (Data) 0,15 mm Conductor wire (Data) 0,15 mm Conductor wire (Data) 0,15 mm Conductor wire (Data) 0,15 mm² Material conductor wire (Data) 0,15 mm² Material conductor wire (Data) 0,15 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) Stranded copper wire, bare Wire conductor wire (Data) Stranded copper wire, bare Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (w	Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Data) PP Outer diameter wire insulation (Data) 1.7 mm Tolerance outer diameter wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) 2 Amount wires (Data) 2 Amount wires (Data) 42 Diameter of single wires (Data) 0.15 mm Conductor wire (Data) 0.75 mm² Material conductor wire (Data) 0.75 mm² Current bad capacity (standard) to DIN VDE 0298 wire, bare Wire conductor wire (Data) 5tranded copper wire, bare Wire conductor type (Data) 5tra de 25 °C Nominal voltage AC max. 300 V Current bad capacity (standard) to DIN VDE 02984 d Current bad c	Amount strands (wire)	42
Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Material wire insulation (Data) PP Outer diameter wire insulation (Data) 1.7 mm Tolerance outer diameter wire insulation (Data) 1.7 mm Tolerance outer diameter wire insulation (Data) 12 5 Shore D Ingredient freeness wire insulation (Data) 12 5 Shore D Ingredient freeness wire insulation (Data) 2 Amount wires (Data) 2 Amount wires (Data) 42 Diameter of single wires (Data) 0.15 mm Conductor vire (Data) 0.75 mm² Material conductor wire (Data) 0.75 mm² Material conductor vire (Data) strand class 6 Traversing distance (C-track) 5 m @ 25 °C Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity wire. 2 & Q & Q °C Electrical resistance line constant wire 26 Q/km @ 20 °C Electrical resistance line constant wire 2 & V/@ 60 s Power frequency withstand voltage (wire - shield) 2 kV @ 60 s <tr< td=""><td>Diameter of single wires</td><td>0,15 mm</td></tr<>	Diameter of single wires	0,15 mm
Conductor type (wire)strand class 6Material wire insulation (Data)PPOuter diameter wire insulation (Data)1,7 mmTolerance outer diameter wire insulation (data)± 5 %Shore hardness wire insulation (Data)70 ± 5 Shore DIngredient freeness wire insulation (Data)1ead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount wires (Data)2Amount strands wire (Data)42Diameter of single wires (Data)0,15 mmConductor cossection wire (Data)0,75 mm²Material conductor wire (Data)5 fram²Material conductor wire (Data)5 fram²Material conductor wire (Data)5 fram²Material conductor wire (Data)5 fram²Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - isolid)2 kV @ 60 sCoveral to date (wire - shield)2 kV @ 60 sAc withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (tsatic)-40 °CMax. operating temperature (tsatic)-40 °CMax. operating temperature (tsatic)-5 °COperating temperature (tsatic)-5 °COperating temperature (tange, dynamic)80 °C	Conductor crosssection (wire)	0,75 mm ²
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Outer diameter wire insulation (Data) 1,7 mm Tolerance outer diameter wire insulation (Data) 10 ± 5 % Shore hardness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount strands wire (Data) 2 Amount strands wire (Data) 42 Diameter of single wires (Data) 0,15 mm Conductor rosssection wire (Data) 0,75 mm² Material conductor wire (Data) 0,75 mm² Material conductor ty wire (Data) 0,75 mm² Material conductor wire (Data) stranded copper wire, bare Wire conductor ty wire (Data) strand class 6 Traversing distance (C-track) 5 m @ 25 °C Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 2.6 Ω/km @ 20 °C Electrical resistance coating wire (Data) 2.6 Ω/km @ 20 °C AC withstand voltage (wire - jacket) 2.kV @ 60 s	Conductor type (wire)	strand class 6
Tolerance outer diameter wire insulation (data)± 5 %Shore hardness wire insulation (Data)70 ± 5 Shore DIngredient freeness wire insulation (Data)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount wires (Data)2Amount strands wire (Data)42Diameter of single wires (Data)0,15 mmConductor crosssection wire (Data)0,75 mm²Material conductor wire (Data)0,75 mm²Material conductor wire (Data)Stranded copper wire, bareWire conductor type (Data)strand class 6Traversing distance (C-track)5 m @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical resistance inc constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - lacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (min. (dynamic))-5 °COperating temperature min. (dynamic)-5 °COperating temperature min. (dynamic)80 °C	Material wire insulation (Data)	PP
Shore hardness wire insulation (Data) 70 ± 5 Shore D Ingredient freeness wire insulation (Data) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free Amount wires (Data) 2 Amount strands wire (Data) 0,15 mm Conductor crosssection wire (Data) 0,75 mm² Material conductor wire (Data) Stranded copper wire, bare Wire conductor type (Data) strand class 6 Traversing distance (C-track) 5 m @ 25 °C Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (wire - wire) 9.6 A Electrical resistance line constant wire 26 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 Operating temperature min. (dynamic) -5 °C	Outer diameter wire insulation (Data)	1,7 mm
Ingredient freeness wire insulation (Data)lead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount wires (Data)2Amount strands wire (Data)42Diameter of single wires (Data)0,15 mmConductor crosssection wire (Data)0,75 mm²Material conductor wire (Data)Stranded copper wire, bareWire conductor type (Data)strand class 6Traversing distance (C-track)5 m @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)26 Ω/km @ 20 °CElectrical resistance line constant wire26 Ω/km @ 20 °CAc withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAc withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	Tolerance outer diameter wire insulation (data)	±5%
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Wire conductor type (Data)strand class 6Traversing distance (C-track)5 m @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical resistance line constant wire26 Ω/km @ 20 °CElectrical resistance coating wire (Data)26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature max. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	Conductor crosssection wire (Data)	0,75 mm ²
Traversing distance (C-track)5 m @ 25 °CNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical resistance line constant wire26 Ω/km @ 20 °CElectrical resistance coating wire (Data)26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	Material conductor wire (Data)	Stranded copper wire, bare
Nominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical resistance line constant wire26 Ω/km @ 20 °CElectrical resistance coating wire (Data)26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature max. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	Wire conductor type (Data)	strand class 6
Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire9,6 AElectrical resistance line constant wire26 Ω/km @ 20 °CElectrical resistance coating wire (Data)26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature max. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	Traversing distance (C-track)	5 m @ 25 °C
Current load capacity min. wire9,6 AElectrical resistance line constant wire26 Ω/km @ 20 °CElectrical resistance coating wire (Data)26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature max. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	Nominal voltage AC max.	300 V
Electrical resistance line constant wire26 Ω/km @ 20 °CElectrical resistance coating wire (Data)26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	Current load capacity (standard)	to DIN VDE 0298-4
Electrical resistance coating wire (Data)26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2 kV @ 60 sPower frequency withstand voltage (wire - jacket)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sAC withstand voltage (wire - shield)2 kV @ 60 sMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	Current load capacity min. wire	9,6 A
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 AC withstand voltage (wire - shield) 2 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C	Electrical resistance line constant wire	26 Ω/km @ 20 °C
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 Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C	Electrical resistance coating wire (Data)	26 Ω/km @ 20 °C
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 Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C		2 kV @ 60 s
Max. operating temperature (fixed)80 °COperating temperature min. (dynamic)-5 °COperating temperature max. (dynamic)80 °C	AC withstand voltage (wire - shield)	2 kV @ 60 s
Operating temperature min. (dynamic) -5 °C Operating temperature max. (dynamic) 80 °C	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C	Max. operating temperature (fixed)	80 °C
	Operating temperature min. (dynamic)	-5 °C
Elame resistance III 1581 & 1100 FT2 IEC 60332-2-2 III 1581 & 1000	Operating temperature max. (dynamic)	80 °C
	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
chemical resistance Good, application-related testing	chemical resistance	Good, application-related testing
Gasoline resistance Good, application-related testing	Gasoline resistance	Good, application-related testing
Oil resistance Good, application-related testing DIN EN 60811-404	Oil resistance	Good, application-related testing DIN EN 60811-404
Bending radius (installation) x Outer diameter	Bending radius (installation)	x Outer diameter
Bending radius (fixed) 10 x Outer diameter	Bending radius (fixed)	10 x Outer diameter
Bending radius (dynamic) 15 x Outer diameter	Bending radius (dynamic)	15 x Outer diameter
Travel speed (C-track) 5 Mio. @ 25 °C	Travel speed (C-track)	5 Mio. @ 25 °C
No. of torsion cycles 5 Mio.	No. of torsion cycles	5 Mio.
Torsion stress ± 30 °/m	Torsion stress	± 30 °/m
Torsion speed 35 cycles/min	Torsion speed	35 cycles/min

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