

M12 female 0° A-cod. with cable

PUR 4x0.75 gy UL/CSA 10m

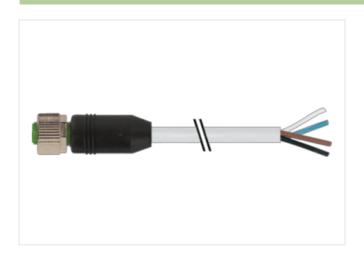
AS-Interface Female straight M12, 4-pole with cable sleeves

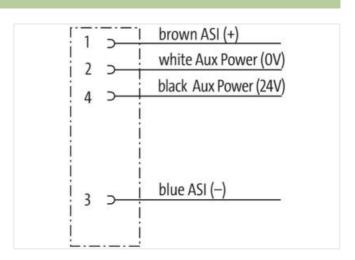
Plastic housings with good resistance against chemicals and oils.

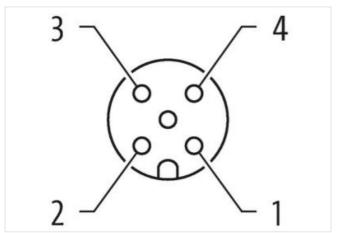
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

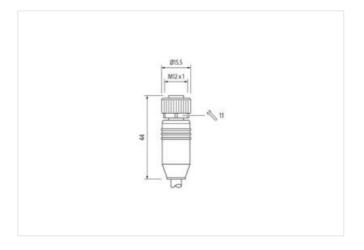
Link to Product

Illustration









Product may differ from Image





10 m Cable length

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)	IP67, IP68
Side 2	
Stripping length (jacket)	20 mm
Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879546683
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	250 V
Operating voltage DC max.	250 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	no
Installation Connection	
Stripping length (jacket)	20 mm
Device protection Electrical	
	inserted serowed
Additional condition protection degree Pollution Degree	inserted, screwed 3
Rated surge voltage	2,5 kV
Material group (IEC 60664-1)	2,3 KV
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	WILLIOUT
·	
Coating locking Metarial goalest	Nickeled
Material gasket	FKM
Locking material	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Onerating temperature may	

Operating temperature max.

85 °C



stay connected

wire arrangement brown, black, blue, white Cable weigh 67.1 g/m Material jacket PUR Shore hardness jacket 90±5 Shore A Freedom from ingredients (jacket) 6.5 mm Colled-diameter (jacket) 6.5 mm Tolerance outer diameter (sheath) ±5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,85 mm Outer diameter insulation 1,85 mm Outer diameter insulation 70±5 Shore D Ingredient freeness wire insulation 70±5 Shore D Ingredient freeness wire insulation 1,85 mm Outer diameter insulation 70±5 Shore D Ingredient freeness wire insulation 1,85 mm Outer diameter insulation 70±5 Shore D Ingredient freeness wire insulation 1,85 mm Outer diameter insulation 70±5 Shore D Ingredient freeness wire insulation 1,85 mm Outer diameter 1,85 mm Outer diame	Additional condition temperature range	depending on cable quality
Note on strain relief Protect the commedors by suitable measures from mechanical loads, e.g. by the usage of cable loss. Note on bonding radius and in the protection dass can be entanglesed by excessive bending forces. Conformity Product standard DIN EN 61076-2-101 (M12) The Product standard DIN EN 61076-2-101 (M12) Salbe disetfication Gabe Cable disetfication B82 Cable disetfication gray 3 Justice Code gray 3 Justice Code gray 4 wrise twisted wires a comment of the production of the code of the cod	Important installation notes	
Aberiding radius Aberiding radius hen laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces. Product standard Discovery Control (M12) Tristallation (Cable Cable identification 862 Cable Type 3 Cable Type 4 Cable Gentificate 4 Cable Gentificate 4 Cable	•	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Installation Cable		Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Cable institution Cable 862 Cable in Type 3 Jacket Color gray Type of Certificate UtRus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Cable weight 67.1 g/m Material jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Freedom from ingredients (jacket) lead-free, cadmum-free, CFC-free, halogen-free, allicone-free Cluter diameter (jacket) 6.5 mm Tolorance outer diameter (sheath) 2.5 % Material vire insulation PP Amount wires 4 Outer diameter tolerance core insulation 7.5 % Shore hardness wire insulation 7.0 ± 5 % Shore hardness wire insulation 7.0 ± 5 % Shore of hardness wire insulation 7.0 ± 5 % Shore of hardness wire insulation 7.0 ± 5 % Chard of teness wire insulation 7.	Conformity	
Cable institution Cable 862 Cable in Type 3 Jacket Color gray Type of Certificate UtRus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Cable weight 67.1 g/m Material jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Shore hardness jacket PUR Freedom from ingredients (jacket) lead-free, cadmum-free, CFC-free, halogen-free, allicone-free Cluter diameter (jacket) 6.5 mm Tolorance outer diameter (sheath) 2.5 % Material vire insulation PP Amount wires 4 Outer diameter tolerance core insulation 7.5 % Shore hardness wire insulation 7.0 ± 5 % Shore hardness wire insulation 7.0 ± 5 % Shore of hardness wire insulation 7.0 ± 5 % Shore of hardness wire insulation 7.0 ± 5 % Chard of teness wire insulation 7.	Product standard	DIN FN 61076-2-101 (M12)
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Material jacket PUR Shore A	wire arrangement	
Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 6.5 mm Outer-diameter (jacket) 5.5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,85 mm Outer diameter insulation 1,85 mm Outer diameter oblerance core insulation ± 5 % Shore hardness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 70 ± 5 Shore D Ingredient freeness wire insulation 42 Diameter of single wires 0,15 mm Conductor crossection (wire) 42 Diameter of single wires 0,15 mm Conductor type (wire) 5tranded copper wire, bare Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (G-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity min. wire 26 Ωkm @ 20 °C AC withstand voltage (wire - wire) 2.5 kV @ 60 s	Cable weigth	
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Material wire insulation PP Amount wires 4 Outer diameter insulation 1,85 mm Outer diameter tolorance 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) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal 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 (standard) 2.5 kV @ 60 s Power frequency withstand voltage (wire - wire) 2.5 kV @ 60 s Min. operating temperature (static) -40 °C Max. operating temperature (static) 80 °C /90 °C @ 10000 h Operation Operating temperature min. (dynamic)	Outer-diameter (jacket)	6,5 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 Amount strands (wire) 42 Diameter of single wires 0,15 mm Conductor crosssection (wire) 0,75 mm² Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 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 - wire) 2,5 kV @ 60 s Min. operating temperature (static) 40 °C Max. operating temperature (mixed) 80 °C / 90 °C @ 10000 h Operation Flame resistance U. 1581 § 1100 FTZ IEC 60332:2-2 U. 1581 § 1090 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Gli resistance Good, application-rela	Outer diameter insulation	1,85 mm
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Material conductor wire Stranded copper wire, bare Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 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 - iacket) 40 °C Min. operating temperature (static) 40 °C Operating temperature (static) 40 °C 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 Good, application-related testing IDIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Travel speed (C-track) 10 kio. @ 25 °C No. of torsion cycles ± 180 °/m	Diameter of single wires	0,15 mm
Conductor type (wire) strand class 6 Traversing distance (C-track) 10 m @ 25 °C horizontal Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 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 - iacket) 40 °C Max. 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 Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation Operating temperature max. (dynamic) 100 FIZ IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 × Outer diameter Bending radius (fixed) 5 × Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Conductor crosssection (wire)	0,75 mm ²
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Nominal voltage AC max. 300 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 9,6 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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Conductor type (wire)	strand class 6
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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 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Current load capacity (standard)	to DIN VDE 0298-4
AC withstand voltage (wire - wire) 2,5 kV @ 60 s Power frequency withstand voltage (wire - jacket) 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 Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles ± 180 °/m	Current load capacity min. wire	9,6 A
Power frequency withstand voltage (wire - jacket) Min. operating temperature (static) Max. operating temperature (fixed) Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Bo °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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Electrical resistance line constant wire	26 Ω/km @ 20 °C
Jacket) Min. operating temperature (static) Max. operating temperature (fixed) Max. operating tempe	AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Max. operating temperature (fixed) Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating temperature max. (dynamic) Flame resistance UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Operating temperature min. (dynamic) Operating temperature max. (dynamic) S0 °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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Min. operating temperature (static)	-40 °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 Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Flame resistance Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Operating temperature min. (dynamic)	-25 °C
chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Flame resistance	UL 1581 § 1100 FT2 IEC 60332-2-2 UL 1581 § 1090
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	chemical resistance	Good, application-related testing
Bending radius (fixed) 5 x Outer diameter Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Gasoline resistance	Good, application-related testing
Bending radius (dynamic) 10 x Outer diameter Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Oil resistance	Good, application-related testing DIN EN 60811-404
Travel speed (C-track) 10 Mio. @ 25 °C No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (fixed)	5 x Outer diameter
No. of torsion cycles 2 Mio. Torsion stress ± 180 °/m	Bending radius (dynamic)	10 x Outer diameter
Torsion stress ± 180 °/m	Travel speed (C-track)	10 Mio. @ 25 °C
	No. of torsion cycles	2 Mio.
Torsion speed 35 cycles/min	Torsion stress	± 180 °/m
	Torsion speed	35 cycles/min

Product-PDF for Article 7060-12221-8621000

