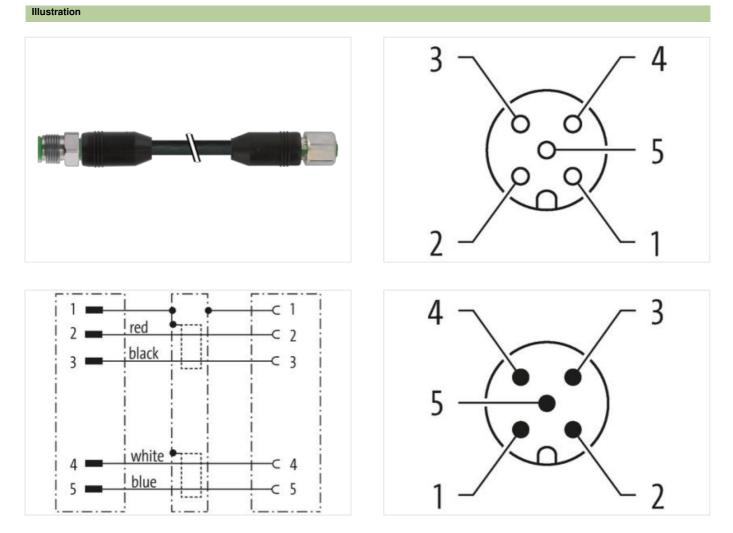


## M12 male 0° / M12 female 0° A-cod. V4A

PUR AWG24+22 shielded bk UL/CSA+drag ch. 1.5m

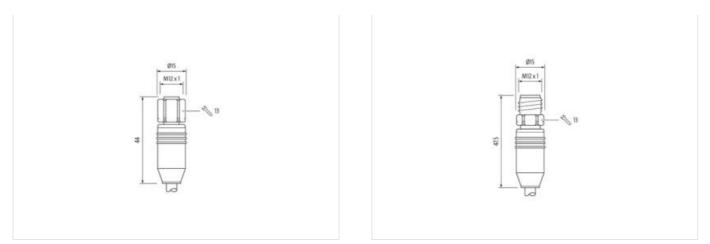
M12 – M12, 5-pole Male straight – female straight A-coded Stainless steel 1.4404 (V4A) Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

## Link to Product



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Product may differ from Image



Coaling contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         5           Width across flats         SW13           Degree of protection (EN EC 60529)         IP65, IP67           Side 2	Cable length	1,5 m
Munting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         5           Side 2         Side 2           Tightening torque         0.6 Nm           Mouting method         inserted, screwed           Coating contact         gold plated           Side 2         Tightening torque           Tightening torque         0.6 Nm           Mouting method         inserted, screwed           Coating contact         gold plated           Family construction form         M12 x 1           Coding         A           Material contact         Copre alloy           No. of poles         5           Colang         A           Material contact         Copre alloy           No. of poles         5           Colang         A           Material contact         Copre alloy           No. of poles         5           Colang         27279218           ECLASS-10.1         27260307	Side 1	
Coaling contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         5           Width across flats         SW13           Degree of protection (EN EC 60529)         IP65, IP67           Side 2	Tightening torque	0,6 Nm
Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         5           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP67           Side 2	Mounting method	inserted, screwed
Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         5           Width across fiats         SW13           Degree of protection (EN IEC 60529)         IP65, IP67           Side 2	Coating contact	gold plated
Coding         A           Material contact         Copper alloy           No. of poles         5           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP67           Side 2	Family construction form	M12
Material contact         Copper alloy           No. of poles         5           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP67           Side 2	Thread	M12 x 1
No. of poles5Width across flatsSW13Degree of protection (EN IEC 60529)IP65, IP67Side 2Tightening torque0,6 NmMounting methodinserted, screwedCoating contactgold platedFamily construction formM12ThreadM12 x 1CodingAMaterial contactCopper alloyNo. of poles5Commercial dataECLASS-6.027279218ECLASS-7.027279218ECLASS-9.027060311ECLASS-10.127060307ECLASS-11.127060307ECLASS-12.027060307ETM-S.0ECON1855customs tariff number8544290GTIN4048879485494	Coding	A
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP67           Side 2         Pathon (Content of the Content of the	Material contact	Copper alloy
Degree of protection (EN IEC 60529)IP65, IP67Side 2IP65, IP67Tightening torque0,6 NmMounting methodinserted, screwedCoating contactgold platedFamily construction formM12ThreadM12 x 1CodingAMaterial contactCopper alloyNo. of poles5Commercial dataECLASS-6.027279218ECLASS-7.027279218ECLASS-9.027060311ECLASS-10.127060307ECLASS-11.127060307ECLASS-12.027060307ETIM-5.0EC01855customs tariff number85444290GTIN4048879485494	No. of poles	5
Side 2Tightening torque0,6 NmMounting methodinserted, screwedCoating contactgold platedFamily construction formM12ThreadM12 x 1CodingAMaterial contactCopper alloyNo. of poles5Commercial dataECLASS-6.027279218ECLASS-7.027279218ECLASS-9.027060311ECLASS-10.127060307ECLASS-11.127060307ECLASS-12.027060307ETIM-5.0ECO01855customs tariff number85444290GTIN4048879485494	Width across flats	SW13
Tiphtening 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         5           CotAss-6.0         27279218           ECLASs-7.0         27279218           ECLASs-9.0         27060311           ECLASs-10.1         27060307           ECLASs-11.1         27060307           ECLASs-12.0         27060307           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         404887485494	Degree of protection (EN IEC 60529)	IP65, IP67
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         5           Commercial data         27279218           ECLASS-6.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879485494	Side 2	
Coating contact         gold plated           Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         5           Commercial data         27279218           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         4048879485494	Tightening torque	0,6 Nm
Family construction form         M12           Thread         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         5           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         4048879485494	Mounting method	inserted, screwed
Image         M12 x 1           Coding         A           Material contact         Copper alloy           No. of poles         5           Commercial data         27279218           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         4048879485494	Coating contact	gold plated
Coding         A           Material contact         Copper alloy           No. of poles         5           Commercial data         27279218           ECLASS-6.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         4048879485494	Family construction form	M12
Material contact         Copper alloy           No. of poles         5           Commercial data         E           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         4048879485494	Thread	M12 x 1
No. of poles         5           Commercial data         5           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879485494	Coding	A
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         4048879485494	Material contact	Copper alloy
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           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         4048879485494	No. of poles	5
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         4048879485494	Commercial data	
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         4048879485494	ECLASS-6.0	27279218
ECLASS-9.0         27060311           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         4048879485494	ECLASS-7.0	27279218
ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879485494	ECLASS-8.0	27279218
ECLASS-11.1         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879485494	ECLASS-9.0	27060311
ECLASS-12.0         27060307           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879485494	ECLASS-10.1	27060307
ETIM-5.0         EC001855           customs tariff number         8544290           GTIN         4048879485494	ECLASS-11.1	27060307
customs tariff number         85444290           GTIN         4048879485494	ECLASS-12.0	27060307
GTIN 4048879485494	ETIM-5.0	EC001855
	customs tariff number	85444290
Packaging unit 1	GTIN	4048879485494
	Packaging unit	1

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## Electrical data | Supply

Electrical data   Supply	
Operating voltage AC max.	60 V
Operating voltage DC max.	60 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	
	no
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Material gasket	FKM
Material gasket Material housing	PUR
	Stainless steel 1.4404 (V4A)
Locking material	Stainless steel 1.4404 (V4A)
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking 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 quitable measures from mechanical leads, a.g. by the usage of cable tice
	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
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Note on bending radius Conformity	endangered by excessive bending forces.
Conformity	endangered by excessive bending forces. DIN EN 61076-2-101 (M12)
Conformity	
Conformity Product standard Installation   Cable	DIN EN 61076-2-101 (M12)
Conformity Product standard Installation   Cable Cable identification	DIN EN 61076-2-101 (M12) 838
Conformity Product standard Installation   Cable Cable identification Jacket Color	DIN EN 61076-2-101 (M12) 838 black
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate	DIN EN 61076-2-101 (M12) 838
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding	DIN EN 61076-2-101 (M12)       838       black       cURus       1
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding	DIN EN 61076-2-101 (M12)         838         black         cURus         1         2 wires twisted
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2)	DIN EN 61076-2-101 (M12)         838         black         cURus         1         2 wires twisted         1
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2)	DIN EN 61076-2-101 (M12) 838 black cURus 1 2 wires twisted 1 2 Stranded joints twisted
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type)	DIN EN 61076-2-101 (M12) 838 black cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage)	DIN EN 61076-2-101 (M12)  838 black cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 %
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding	DIN EN 61076-2-101 (M12)  838 black cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section)	DIN EN 61076-2-101 (M12) 838 black cURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement	DIN EN 61076-2-101 (M12)  838 Black CURus 1 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 65 % Foil 22 AWG (white, blue), (black, red)
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth	DIN EN 61076-2-101 (M12)         838         black         cURus         1         2 wires twisted         1         2 Stranded joints twisted         copper braid, tinned         65 %         Foil         22 AWG         (white, blue), (black, red)         63,12 g/m
Conformity Product standard Installation   Cable Cable identification Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding Drain wire (cross-section) wire arrangement Cable weigth Material jacket	DIN EN 61076-2-101 (M12)         838         black         cURus         1         2 wires twisted         1         2 Stranded joints twisted         copper braid, tinned         65 %         Foil         22 AWG         (white, blue), (black, red)         63,12 g/m         PUR
Conformity         Product standard         Installation   Cable         Cable identification         Jacket Color         Type of Certificate         Amount stranding         Stranding         Amount stranding (type 2)         Cable shielding (type)         Cable shielding (coverage)         Banding         Drain wire (cross-section)         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket	DIN EN 61076-2-101 (M12)         838         black         cURus         1         2 wires twisted         1         2 Stranded joints twisted         copper braid, tinned         65 %         Foil         22 AWG         (white, blue), (black, red)         63,12 g/m         PUR         90 ± 5 Shore A
Conformity         Product standard         Installation   Cable         Cable identification         Jacket Color         Type of Certificate         Amount stranding         Stranding         Amount stranding (type 2)         Cable shielding (type)         Cable shielding (coverage)         Banding         Drain wire (cross-section)         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)	DIN EN 61076-2-101 (M12)         838         black         cURus         1         2 wires twisted         1         2 stranded joints twisted         copper braid, tinned         65 %         Foil         22 AWG         (white, blue), (black, red)         63,12 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conformity         Product standard         Installation   Cable         Cable identification         Jacket Color         Type of Certificate         Amount stranding         Stranding         Amount stranding (type 2)         Stranding (type 2)         Cable shielding (type)         Cable shielding (coverage)         Banding         Drain wire (cross-section)         wire arrangement         Cable weigth         Material jacket         Shore hardness jacket         Freedom from ingredients (jacket)         Outer-diameter (jacket)	DIN EN 61076-2-101 (M12)         838         black         cURus         1         2 wires twisted         1         2 stranded joints twisted         copper braid, tinned         65 %         Foil         22 AWG         (white, blue), (black, red)         63,12 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         6,9 mm
Product standard	DIN EN 61076-2-101 (M12)         838         black         cURus         1         2 wires twisted         1         2 stranded joints twisted         copper braid, tinned         65 %         Foil         22 AWG         (white, blue), (black, red)         63,12 g/m         PUR         90 ± 5 Shore A         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free

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Amount wires	2
Outer diameter insulation	2,1 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	64 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	19
Diameter of single wires	24 AWG
Conductor crosssection (wire)	24 AWG
Drain wire (cross-section)	22 AWG
Material conductor wire	copper stranded wire, tinned
Electrical function wire	Data
Material wire insulation (Data)	PE
Outer diameter wire insulation (Data)	1,5 mm
Tolerance outer diameter wire insulation (data)	
Ingredient freeness wire insulation (Data)	lead-free, CFC-free, halogen-free
Amount wires (Data)	2
Amount strands wire (Data)	19
Diameter of single wires (Data)	22 AWG
Conductor crosssection wire (Data)	22 AWG
Material conductor wire (Data)	copper stranded wire, tinned
Electrical function wire (data)	Power
Traversing distance (C-track)	5 m
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Current load capacity min. Wire (Data)	6 A
Electrical function wire	Data
Electrical function wire (data)	Power
Characteristic impedance	120 Ω ± 10 % @ 1 MHz
Electrical resistance line constant wire	78 Ω/km
Electrical resistance coating wire (Data)	54 Ω/km
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electric capacitance	40000 pF/km
AC withstand voltage (wire - shield)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (state)	80 °C
	-30 °C
Operating temperature min. (dynamic)	
Operating temperature max. (dynamic)	70 °C
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (installation)	x Outer diameter
Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
Travel speed (C-track)	1 Mio.
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min

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