

M12 male 0° A-cod. with cable F&B Pro

TPE-S 4x0.34 bu UL robot+drag ch. 5m

Art.No.: 7024-12021-3210500

Weight: 0.158 kg Country of origin: DE

Model designation: MSAL0-T321 5.0-S24

Plug Connectors for Food & Beverage

Male straight M12 F&B Pro

4-pole

Screw, Stainless Steel 1.4404 (V4A)

without cable sleeves

IP69K

Plastic housings with good resistance against chemicals and oils.

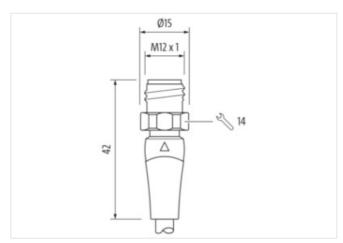
The resistance to aggressive media should be individually tested for your application. Further details on request.

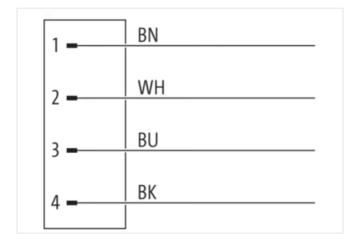
Further cable lengths on request.

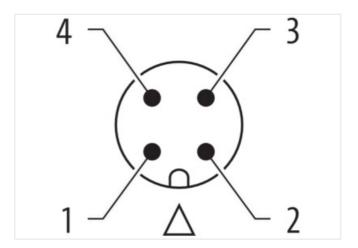
Link to Product

Illustration



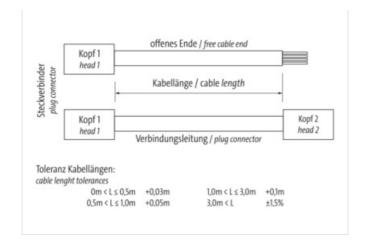


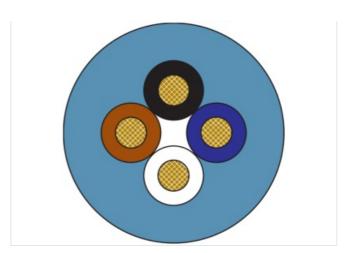


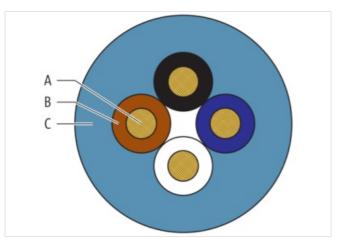




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Product may differ from Image







Header	
Material short text	MSAL0-T321_5.0-S24
Cable length	5,00 m
Side 1	
Family construction form	M12
No. of poles	4
Coding	A
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW14
Cable outlet	straight
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP69K, IP68, IP65
Side 2	
Family construction form	With open ended wires



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Stripping length (jacket)	20 mm
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7024-12021-3210500
GTIN	4048879739146
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.1	27279218
ECLASS-8.0	27279218
ECLASS-8.1	27279218
ECLASS-9.0	27060311
ECLASS-9.1	27060311
ECLASS-10.0.1	27060311
ECLASS-10.1	27060311
ECLASS-11.0	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311
ECLASS-14.0	27060311
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
EAN	4048879739146
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	250 V
Operating voltage DC max.	250 V
Current operating per contact max.	4 A
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Diagnostics	
Status indication LED	No
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	2,5 kV
Material group (IEC 60664-1)	_,v
	•
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
Material housing	PP
Material contact carrier	PP
Color contact carrier	ice blue
Locking material	Stainless steel 1.4404 (V4A)
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
	-30 °C
Operating temperature min. Operating temperature max.	-30 °C 105 °C
Operating temperature max.	100 0

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: 2025-12-14



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Additional condition temperature range	depending on cable quality
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.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Conformity	
Product standard	EN IEC 61076-2-101 (M12), FDA conform
Installation Cable	
	004
Cable identification Amount stranding	321
<u> </u>	Wires
Stranding Wire arrangement	brown, black, blue, white
Cable weigth	27 g/m
Material wire insulation	PP
	4
Amount wires Outer diameter insulation	1,27 mm
Outer diameter insulation Outer diameter tolerance core insulation	· · · · · · · · · · · · · · · · · · ·
Shore hardness wire insulation	± 0,02 mm
	64 ± 3 Shore D
ngredient freeness wire insulation	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm ²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Outer-diameter (jacket)	4,7 mm
Folerance outer diameter (sheath)	±5%
Material jacket	TPE-S
Shore hardness jacket	47 ± 5 Shore D
reedom from ingredients (jacket)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Material property (jacket)	matte, good machinability, abrasion-resistant, low adhesion
Conductor resistance (wire)	58 Ω/km @ 20 °C
Nominal voltage AC max.	300 V
Withstand voltage (wire - wire)	3 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Min. operating temperature (static)	-40 °C
Max. operating temperature (static)	105 °C
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	105 °C
Operating temperature min. (drag chain)	-25 °C
Operating temperature max. (drag chain)	105 °C
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	4 Mio. @ 25 °C
Fraversing distance (C-track)	10 m @ 25 °C horizontal
Fravel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	10 m/s² @ 25 °C
No. of torsion cycles	2 Mio.
Forsion stress	180 °C