

TPE connection cable 4-pin M12

DATASHEET



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M12 female 0° or 90° with cable F&B Pro

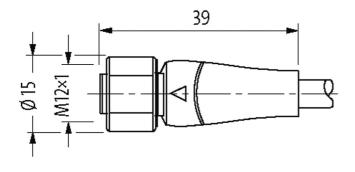
TPE-S 4x0.34 bu robot +drag chain 1,5m / 5m / 10m / 15m

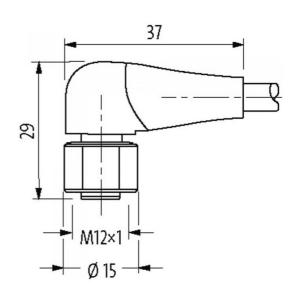
Plug Connectors for Food & Beverage Female straight / angled M12 F&B Pro 4-pole Stainless steel 1.4404 (V4A) without cable sleeves IP69K

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.









1 >	brown (+) white (N/C)	Female
1 4 5	black (N/O)	
		3004
3 >	blue (–)	2 00 1

Product kan afwijken van afbeelding







A	Cables	
Wire isolation PP (br, wh, bl, bk) C-track properties 4 Mio. Jacket Color pastel blue Material (jacket) TPE-S Outer Ø 4.7 mm ±5% Bend radius (moving) 10 × outer Ø Femperature range (fixed) -40+105 °C Femperature range (mobile) -25+105 °C Sable identification 321 Approval (cable) UL (AWM-Style 22126/11558), CE conform Cable weight [g/m] 29,70 Material (wire) Cu wire, bare Resistor (core) max. 58 Ω/km (20 °C) Bingle wire Ø (core) 0.1 mm Construction (core) 42 × 0.1 mm (multi-strand wire class 6) Diameter (core) 4 × 0.34 mm² WG similar to AWG 22 Material property (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 4 ± 3 D Wire-Ø incl. isolation 1,27m ±5% Schoriumbering of wires br, bk, bl, wh Stranding combination 4 vires twisted </th <th>Cable number</th> <th>321</th>	Cable number	321
A Mio. Dacket Color Dastel blue	No./diameter of wires	4× 0.34 mm²
Dacket Color pastel blue Material (jacket) TPE-S Duter Ø 4.7 mm ±5% Send radius (moving) 10× outer Ø Temperature range (fixed) -40+105 °C Temperature range (mobile) -25+105 °C Cable identification 321 Dapproval (cable) UL (AWM-Style 22126/11558), CE conform Dapproval (cable) UL (aWM-Style 22126/11558), CE conform Dable weight [g/m] 29,70 Material (wire) Cu wire, bare Resistor (core) max. 58 Ωkm (20 °C) Single wire Ø (core) 0.1 mm Donstruction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 4× 0.34 mm² WWG similar to AWG 22 Material (vire isolation) PP Material (vire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 4 wires twisted Shore hardness (wire isolation 1.27m ±5% Dolor/numbering of wires br, bk, bl, wh Stranding combination 4 wires twisted Alterial (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 47 ± 5 D Duter-Ø (jacket) pastel blue Journal voltage 300 V AC Test voltage 300 V AC Test voltage 300 V AC Temperature range (fixed) -40+105 °C	Wire isolation	PP (br, wh, bl, bk)
Adalerial (jacket) TPE-S	C-track properties	4 Mio.
Duter Ø	Jacket Color	pastel blue
Send radius (moving) 10 × outer Ø	Material (jacket)	TPE-S
Femperature range (fixed) -40+105 ° C Femperature range (mobile) -25+105 ° C Cable identification 321 Approval (cable) UL (AWM-Style 22126/11558), CE conform Cable weight [g/m] 29,70 Material (wire) Cu wire, bare Resistor (core) max.58 Ω/km (20 ° C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 4× 0.34 mm² WVG similar to AWG 22 Material (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 64 ±3 D Wire-Ø incl. isolation 1.27m ±5% Stranding combination 4 wires twisted Sheld no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Alterial property (jacket) 47 ±5 D Outer-Ø (jacket) 4.7 mm ±5% Color (jacket) pastel blue	Outer Ø	4.7 mm ±5%
Femperature range (mobile) -25+105 ° C Cable identification 321 Approval (cable) UL (AWM-Style 22126/11558), CE conform Cable weight [g/m] 29,70 Material (wire) Cu wire, bare Resistor (core) max. 58 Ω/km (20 ° C) Single wire Ø (core) 0.1 mm Construction (core) 42 × 0.1 mm (multi-strand wire class 6) Diameter (core) 4 × 0.34 mm² AWG similar to AWG 22 Material (wire isolation) PP Material property (wire isolation) 64 ±3 D Wire-Ø incl. isolation 1.27m ±5% Color/numbering of wires br, bk, bl, wh Stranding combination 4 wires twisted Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Alterial property (jacket) 47 ±5 D Outer-Ø (jacket) 4.7 mm ±5% Color (jacket) pastel blue Color (jacket) pastel blue Color (jacket) to DIN VDE 0298-4	Bend radius (moving)	10× outer Ø
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Material (wire) Cu wire, bare max. 58 \(\Omega \text{tm} \) (20 °C) Single wire \(\Omega \text{(core)} \) At \(\Omega \text{2.0.1 mm} \) (multi-strand wire class 6) Diameter (core) 4 \(\times \text{0.34 mm}^2 \) Atterial (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) 64 \(\pm \text{3.D} \) Color/numbering of wires br, bk, bl, wh Stranding combination 4 wires twisted Shield no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 47 \(\pm \text{25.D} \) Outer-\(\Omega \text{(jacket)} \) 4.7 \(\text{mm} \text{ ±5 D} \) Outer-\(\Omega \text{(jacket)} \) At \(\text{4.7 mm} \text{ ±5 D} \) Outer-\(\Omega \text{(jacket)} \) At \(\text{4.7 mm} \text{ ±5 V} \) Color (jacket) A \(\text{2.300 V AC} \) Fest voltage 300 V AC Fest voltage 300 V AC Fest voltage 300 V AC Ference of the core in the c	Approval (cable)	UL (AWM-Style 22126/11558), CE conform
Resistor (core) max. 58 Ω/km (20 °C) Single wire Ø (core) 0.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Diameter (core) 4× 0.34 mm² AWG similar to AWG 22 Material (wire isolation) PP Material property (wire isolation) 64±3 D Mire-Ø incl. isolation 1.27m ±5% Color/numbering of wires br, bk, bl, wh Stranding combination 4 wires twisted Shield no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 47 ±5 D Outer-Ø (jacket) 4.7 mm ±5% Color (jacket) pastel blue Mominal voltage 300 V AC Ceret voltage 3000 V AC Current load capacity to DIN VDE 0298-4 Femperature range (fixed)	Cable weight [g/m]	29,70
Single wire Ø (core) O.1 mm Construction (core) 42× 0.1 mm (multi-strand wire class 6) Ax 0.34 mm² Similar to AWG 22 Material (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) Mire-Ø incl. isolation 1.27m ±5% Color/numbering of wires br, bk, bl, wh Stranding combination 4 wires twisted Shield no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 47 ±5 D Outer-Ø (jacket) Az mm ±5% Color (jacket) Dominal voltage 300 V AC Cerst voltage 3000 V AC Current load capacity to DIN VDE 0298-4 Femperature range (fixed)	Material (wire)	Cu wire, bare
Aconstruction (core) 42× 0.1 mm (multi-strand wire class 6) Available (core) 4× 0.34 mm² Awg	Resistor (core)	max. 58 Ω/km (20 °C)
Diameter (core) 4 × 0.34 mm² Similar to AWG 22 Material (wire isolation) PP Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) Mire-Ø incl. isolation 1.27m ±5% Color/numbering of wires Br, bk, bl, wh Stranding combination 4 wires twisted no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 47 ±5 D Color (jacket) Color (jacket) Douter-Ø (jacket)	Single wire Ø (core)	0.1 mm
Material (wire isolation) Material property (wire isolation) Mire-Ø incl. isolation Color/numbering of wires Shore harding combination Material (jacket) Material property (jacket) Material pr	Construction (core)	42× 0.1 mm (multi-strand wire class 6)
Material (wire isolation) Material property (wire isolation) Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Chore hardness (wire isolation) 1.27m ±5% Color/numbering of wires br, bk, bl, wh Chaterial (gachet) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Chore hardness (jacket) CFC- (jacket) Color (jacket) An mm ±5% Color (jacket) Douter-Ø (jacket) An mm ±5% Color (jacket) Color (jacket	Diameter (core)	4× 0.34 mm²
Material property (wire isolation) CFC-, halogen-, cadmium-, silicone- and lead-free Shore hardness (wire isolation) Mire-Ø incl. isolation 1.27m ±5% Color/numbering of wires br, bk, bl, wh Stranding combination 4 wires twisted Shield no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 47 ±5 D Outer-Ø (jacket) And mm ±5% Color (jacket) Doubled (jacket) Nominal voltage 300 V AC Test voltage 300 V AC Current load capacity To DIN VDE 0298-4 Femperature range (fixed) -40+105 °C	AWG	similar to AWG 22
Shore hardness (wire isolation) 64 ± 3 D Mire-Ø incl. isolation 1.27m ±5% Color/numbering of wires br, bk, bl, wh Stranding combination 4 wires twisted no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 47 ± 5 D Outer-Ø (jacket) Color (jacket) Pastel blue Nominal voltage 300 V AC Test voltage 300 V AC Current load capacity to DIN VDE 0298-4 Femperature range (fixed) -40+105 ° C	Material (wire isolation)	PP
Mire-Ø incl. isolation 1.27m ±5% br, bk, bl, wh Stranding combination 4 wires twisted no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) Outer-Ø (jacket) A7 ±5 D Outer-Ø (jacket) A7 mm ±5% Color (jacket) Pastel blue Nominal voltage 300 V AC Test voltage 3000 V AC Current load capacity To DIN VDE 0298-4 Temperature range (fixed) -40+105 °C	Material property (wire isolation)	CFC-, halogen-, cadmium-, silicone- and lead-free
Color/numbering of wires br, bk, bl, wh A wires twisted no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) Outer-Ø (jacket) A 7 ±5 D Outer-Ø (jacket) Pastel blue Nominal voltage 300 V AC Current load capacity Temperature range (fixed) br, bk, bl, wh 4 wires twisted no TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant 47 ±5 D Outer-Ø (jacket) pastel blue 300 V AC Test voltage 300 V AC Outer-Moderate and the process of t	Shore hardness (wire isolation)	64 ±3 D
Stranding combination 4 wires twisted Shield no Material (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) 47 ±5 D Outer-Ø (jacket) 4.7 mm ±5% Color (jacket) pastel blue Nominal voltage 300 V AC Test voltage 3000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+105 °C	Wire-Ø incl. isolation	1.27m ±5%
Adterial (jacket) TPE-S (laser-markable) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) Outer-Ø (jacket) A.7 mm ±5% Color (jacket) Pastel blue Nominal voltage 300 V AC Current load capacity Temperature range (fixed)	Color/numbering of wires	br, bk, bl, wh
Material (jacket) CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) Outer-Ø (jacket) A7 ±5 D Outer-Ø (jacket) A27 mm ±5% Color (jacket) Pastel blue Nominal voltage 300 V AC Test voltage 3000 V AC Current load capacity Temperature range (fixed) Temperature range (fixed) Test voltage -40+105 °C	Stranding combination	4 wires twisted
CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) Outer-Ø (jacket) A.7 mm ±5% Color (jacket) Pastel blue Nominal voltage 300 V AC Test voltage 3000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed)	Shield	no
Adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant Shore hardness (jacket) Outer-Ø (jacket) A7 ±5 D Outer-Ø (jacket) Pastel blue Nominal voltage 300 V AC Test voltage 3000 V AC Ourrent load capacity to DIN VDE 0298-4 Temperature range (fixed)	Material (jacket)	TPE-S (laser-markable)
Outer-Ø (jacket) A.7 mm ±5% Color (jacket) pastel blue Nominal voltage 300 V AC Test voltage 3000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) 4.7 mm ±5% pastel blue 300 V AC -40+105 °C	Material property (jacket)	adhesion, machine easy to process, abrasion-resistant,
Color (jacket) Pastel blue Nominal voltage 300 V AC Test voltage 3000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+105 °C	Shore hardness (jacket)	47 ±5 D
Nominal voltage 300 V AC Test voltage 3000 V AC Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+105 °C	Outer-Ø (jacket)	4.7 mm ±5%
Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+105 °C	Color (jacket)	pastel blue
Current load capacity to DIN VDE 0298-4 Temperature range (fixed) -40+105 °C	Nominal voltage	300 V AC
Temperature range (fixed) -40+105 °C	Testvoltage	3000 V AC
	Current load capacity	to DIN VDE 0298-4
emperature range (mobile) -25+105 °C	Temperature range (fixed)	-40+105 ° C
	Temperature range (mobile)	-25+105 °C



Bend radius (fixed)	5× outer Ø
Bend radius (moving)	10× outer Ø
No. of bending cycles (C-track)	max. 4 Mio. (25 ° C)
Traversing distance (C-track)	max. 10 m
Travel speed (C-track)	max. 3 m/s
Acceleration (C-track)	max. 10 m/s²
Torsion stress	±180°/m
No. of torsion cycles	max. 2 Mio. (25 ° C)
Torsion speed	35 cycles/min
Technical Data	
Operating voltage	max. 250 V AC/DC
Operating voltage (only UL listed)	max. 30 V AC/DC
Rated surge voltage	2.5 kV
Operating current per contact	max. 4 A
No. of poles	4-pole
Material group	IEC 60664-1, category I
Coding	A-coded
LED display	no
Locking of ports	Screw thread (M12×1 mm) recommended torque 0.6 Nm, self- securing
Compression gland	M12 (SW14)
Protection	IP65, IP68, IP69K inserted and tightened (EN 60529)
Material	PP
Locking material	Stainless steel 1.4404 (V4A)
suitable for corrugated tube (internal \emptyset)	without
General data	
Standards	DIN EN 61076-2-101 (M12), FDA conform
Mounting method	inserted, tightened
Material (contact)	Copper alloy
Material (contact surface)	Au
Material (contact carrier)	PP, ice blue
Material (gasket)	EPDM
Pollution Degree	3
Stripping length (jacket)	20 mm
Temperature range	-40+105 °C, depending on cable quality