

M12 male 0° / M12 female 0°

PUR 5x0.25 shielded gy drag chain 1m

Art.No.: 7490-40507-2900100

Weight: 0.073

Country of origin: CZ

Model designation: MSBL0-A-*E290_1.0-ZS

Power supply cable (+ trigger & encoder) for Cognex and Zebra cameras

M12 A-coded 12P straight <> M12 A-coded 5P straight

Male straight – female straight

Special pin assignment

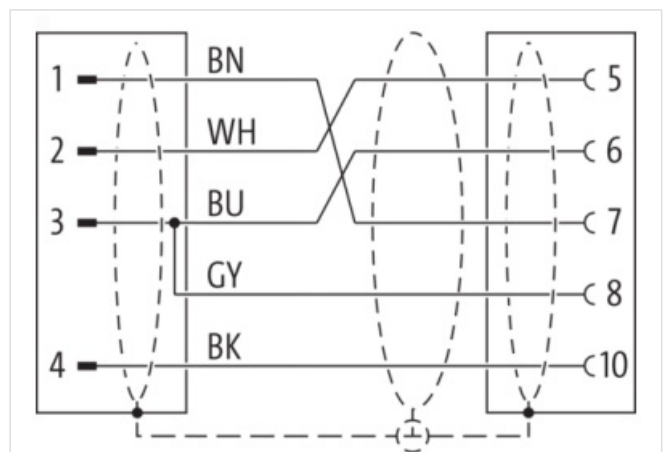
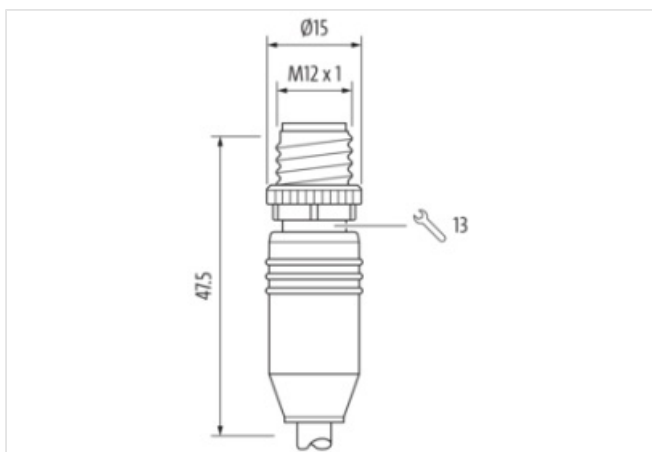
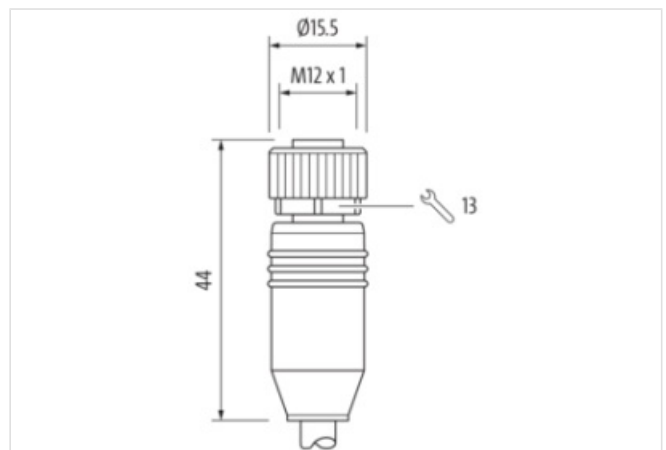
partly used

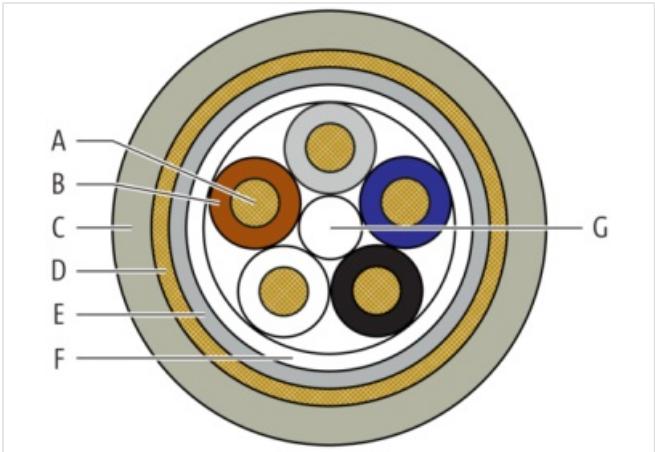
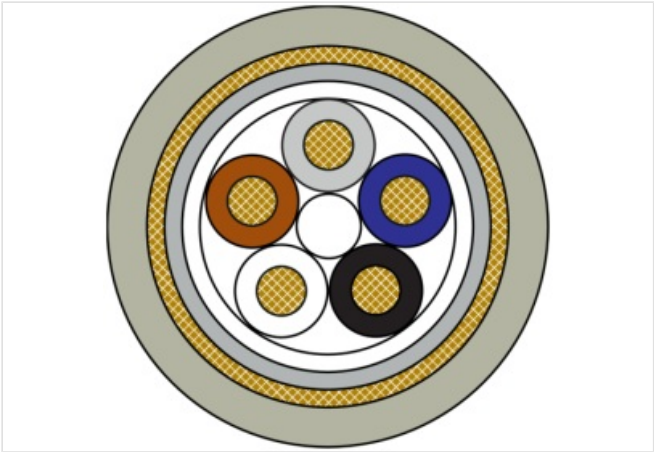
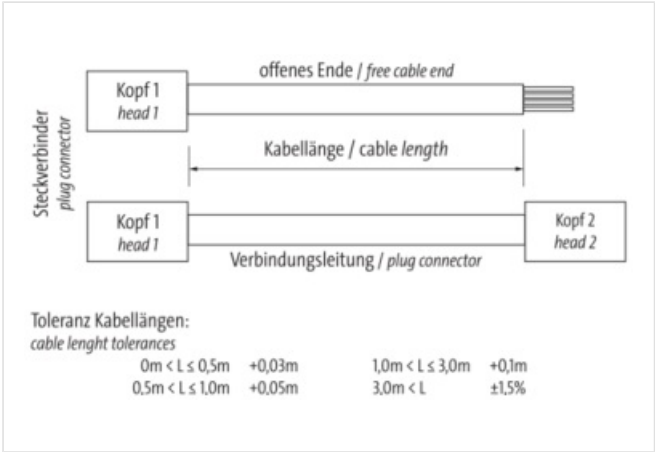
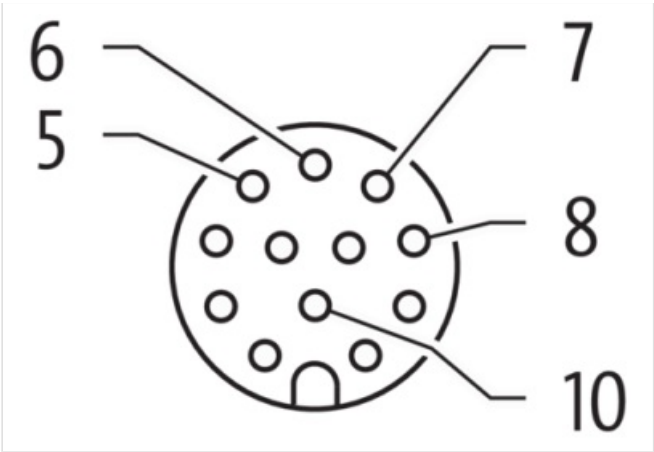
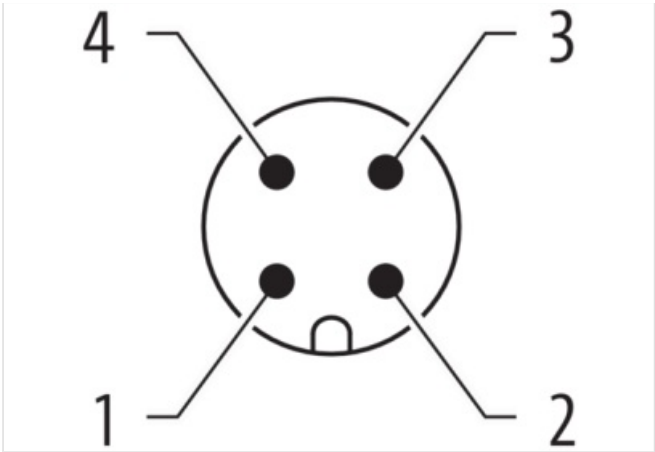
shielded

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



Header	
Material short text	MSBL0-A-*E290_1.0-ZS
Cable length	1,00 m
Side 1	

Family construction form	M12
No. of poles	4
Coding	A
Gender	male
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65

Side 2

Family construction form	M12
No. of poles	5
Coding	A
Gender	female
Mounting method	inserted, screwed
Thread	M12 x 1
Tightening torque	0.6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65

Commercial data

URL Webshop	https://shop.murrelektronik.com/7490-40507-2900100
GTIN	4048879909129
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	4048879909129
Packaging unit	1

Electrical data | Supply

Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	2 A

Diagnostics

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: 2025-11-04

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Status indication LED	no
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Installation | Connection

Mounting set	M12 x 1
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Device protection | Electrical

Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0.8 kV
Material group (IEC 60664-1)	I

Mechanical data

Contour for corrugated hose	without
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Mechanical data | Material data

Color housing	black
Color contact carrier	green
Material screw connection	Zinc die-casting
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Coating locking	Nickeled
Material gasket	FKM

Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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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 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)
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Installation | Cable

Cable identification	290
Amount stranding	1
Stranding	Wires
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece
Filler	yes
Wire arrangement	brown, gray, blue, black, white
Cable weight	40 g/m
Material wire insulation	TPE-E
Amount wires	5
Outer diameter insulation	1.05 mm
Outer diameter tolerance core insulation	± 0.05 mm
Shore hardness wire insulation	42 ± 3 Shore D
Ingredient freeness wire insulation	CFC-free, halogen-free, lead-free
Amount strands (wire)	32
Diameter of single wires	0.1 mm
Conductor crosssection (wire)	0.25 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6

Outer-diameter (jacket)	5 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	CFC-free, cadmium-free, halogen-free, lead-free
Material property (jacket)	matte, good machinability, abrasion-resistant, low adhesion
Material inner jacket	PVC
Color (inner jacket)	gray
Conductor resistance (wire)	79.9 Ω/km @ 20 °C
Electric inductivity line constant	0.8 pF/km
Electrical capacity line constant (wire - wire)	50,000 pF/km
Electrical capacity line constant (wire - shield)	185,000 pF/km
Isolation resistance	20 MΩ × km
Nominal voltage AC max.	350 V
Withstand voltage (wire - wire)	1 kV @ 60 s
Withstand voltage (wire - jacket)	1 kV @ 60 s
Withstand voltage (wire - shield)	1 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	3.4 A
Characteristic impedance	75 Ω 15 MHz
Min. operating temperature (static)	-40 °C
Max. operating temperature (static)	70 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	70 °C
Bending radius (dynamic)	7.5 × Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C horizontal
Travel speed (C-track)	3.3 m/s @ 25 °C
Acceleration (C-track)	5 m/s² @ 25 °C
Torsion stress	180 °C