

M12 male 0° / M12 male 0° X-cod. shielded

PUR 4x2xAWG26/7 shielded gn UL/CSA 7.5m

Art.No.: 7000-51001-7900750

Weight: 0.368 kg Country of origin: CZ

Model designation: MSXAL0-XA-08D790 7.5-ZS

Product fulfills requirements according to UN/ECE R118

Ethernet CAT6A

Male straight - male straight

M12 - M12, 8-pole

X-coded Shielded

Transmission properties with channel transmission up to 50 m

Further cable lengths on request.

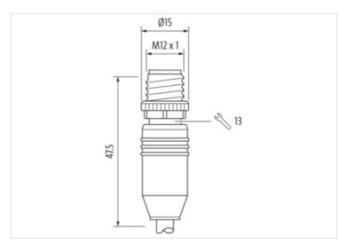
Plastic housings with good resistance against chemicals and oils.

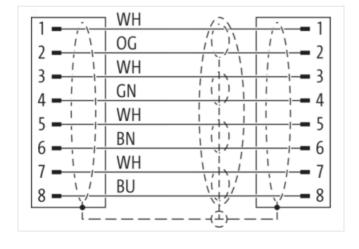
The resistance to aggressive media should be individually tested for your application. Further details on request.

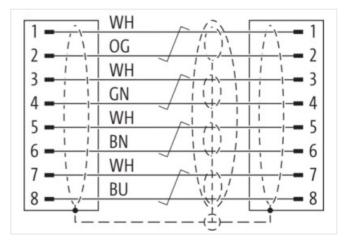
Link to Product

Illustration



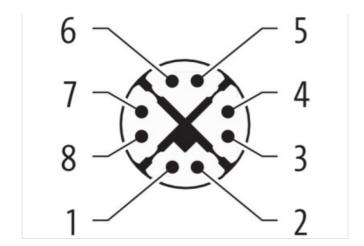


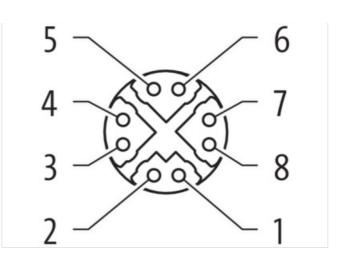


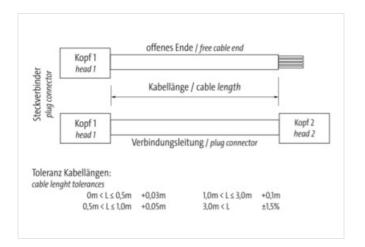


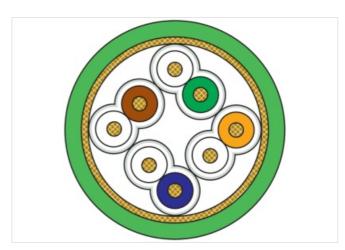


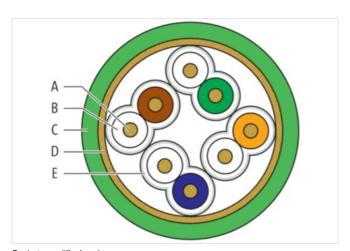
stay connected











Product may differ from Image









Header

Material short text MSXAL0-XA-08D790_7.5-ZS

Cable length 7,50 m



stay connected

Side 1	
Family construction form	M12
No. of poles	8
Coding	X
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67, IP65
Side 2	
Family construction form	M12
No. of poles	8
Coding	X
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	
	Copper alloy
Conting contact	
Coating contact Degree of protection (EN IEC 60529)	gold plated
Degree of protection (EN IEC 60529)	gold plated IP67, IP65
Degree of protection (EN IEC 60529) Commercial data	IP67, IP65
Degree of protection (EN IEC 60529) Commercial data URL Webshop	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-8.1 ECLASS-9.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-8.1 ECLASS-9.0 ECLASS-9.1	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-9.0 ECLASS-9.1 ECLASS-9.1	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-8.1 ECLASS-9.0 ECLASS-9.1 ECLASS-9.1 ECLASS-10.0.1 ECLASS-10.1	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.1 ECLASS-8.1 ECLASS-9.0 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.1 ECLASS-8.1 ECLASS-9.0 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.0 ECLASS-11.1	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-9.0 ECLASS-9.1 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.1 ECLASS-11.0 ECLASS-12.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-9.0 ECLASS-9.1 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.0 ECLASS-11.0 ECLASS-12.0 ECLASS-13.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-7.1 ECLASS-8.0 ECLASS-8.1 ECLASS-9.0 ECLASS-9.0 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.0 ECLASS-11.1 ECLASS-12.0 ECLASS-13.0 ECLASS-14.0	https://shop.murrelektronik.com/7000-51001-7900750
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.1 ECLASS-8.1 ECLASS-9.0 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.1 ECLASS-11.0 ECLASS-11.1 ECLASS-11.0 ECLASS-11.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-7.1 ECLASS-8.0 ECLASS-9.0 ECLASS-9.1 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.1 ECLASS-11.0 ECLASS-11.0 ECLASS-14.0 ETIM-5.0 ETIM-6.0	https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-9.0 ECLASS-9.1 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.0 ECLASS-11.0 ECLASS-12.0 ECLASS-14.0 ETIM-5.0 ETIM-6.0 ETIM-7.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-9.0 ECLASS-9.1 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.0 ECLASS-11.0 ECLASS-11.0 ECLASS-14.0 ETIM-5.0 ETIM-6.0 ETIM-8.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 EC002599 EC002599 EC002599 EC002599
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.1 ECLASS-9.0 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.0 ECLASS-11.0 ECLASS-11.0 ECLASS-11.0 ECLASS-14.0 ETIM-5.0 ETIM-5.0 ETIM-8.0 customs tariff number	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 27060309 EC002599 EC002599 EC002599 EC002599 EC002599
Degree of protection (EN IEC 60529) Commercial data URL Webshop GTIN ECLASS-6.0 ECLASS-6.1 ECLASS-7.0 ECLASS-7.1 ECLASS-8.0 ECLASS-8.0 ECLASS-9.0 ECLASS-9.0 ECLASS-9.1 ECLASS-10.0.1 ECLASS-11.0 ECLASS-11.0 ECLASS-11.0 ECLASS-12.0 ECLASS-13.0 ECLASS-14.0 ETIM-5.0 ETIM-6.0 ETIM-8.0	IP67, IP65 https://shop.murrelektronik.com/7000-51001-7900750 4048879536691 27061801 27060307 EC002599 EC002599 EC002599 EC002599



stay connected

Electrical data Supply	
Operating voltage AC max.	50 V
Operating voltage DC max.	60 V
Current operating per contact max.	0,5 A
Industrial Communication	
Data transmission rate max.	10 Gbit/s
Fransfer parameters	CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)
Diagnostics	······································
	M.
Status indication LED	No
Device protection Electrical	
Degree of protection (EN IEC 60529)	IP67, IP65
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	<u> </u>
Mechanical data	
Contour for corrugated hose	without
Mechanical data Material data	
_ocking material	Zinc die-casting
Coating locking	Nickeled
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-30 °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 61076-2-109 (M12)
Installation Cable	
•	700
Cable identification	790
Function cable Amount stranding	Data 4
Stranding	2 wires stranded
Amount stranding (type 2)	1
Stranding (type 2)	4 stranding combinations stranded
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	65 %
Pair shielding (type)	Metal foil
Banding	Foil
Cable weigth	48 g/m
Material wire insulation	PE
Amount wires	8
Outer diameter insulation	1,05 mm
Outer diameter tolerance core insulation	- 0,02 mm
Shore hardness wire insulation	65 ± 5 Shore D
Shore naturess wife insulation	00 1 0 011010 1



Amount strands (wire)	7
Diameter of single wires	34 AWG
Conductor crosssection (wire)	26 AWG
Material conductor wire	Stranded copper wire, bare
Outer-diameter (jacket)	6,4 mm
Tolerance outer diameter (sheath)	±5%
Material jacket	PUR
Shore hardness jacket	89 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Conductor resistance (wire)	140 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	44.000 pF/km
Isolation resistance	$5.000 \text{ M}\Omega \times \text{km}$
Nominal voltage AC max.	125 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	2 A
Min. operating temperature (static)	-40 °C
Max. operating temperature (static)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1090, UL 1581 § 1100, IEC 60332-1-2
Oil resistance	IEC 60811-404, IRM 902
Ozone resistance	EN 50396
Other resistances	resistant to microbes, MUD-resistant (NEK 606)
Bending radius (fixed)	8 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter