

#### M12 male 0° / M12 male 0° A-cod. shielded

TPE 4x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 7.5m

Art.No.: 7700-48511-S4W0750

Weight: 0.54

Country of origin: DE

Model designation: MSAL0-A-08DS4W 7.5-ZS

## Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

If you are missing technical information? Please feel free to use our dictionary to find more technical details.

#### **Product details:**

Further cable lengths on request. Ethernet CAT5 Male straight – male straight M12 – M12, 8-pole shielded USA

Cable is approved for 600 V

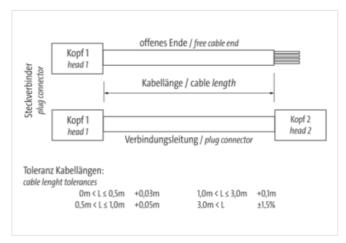
Plastic housings with good resistance against chemicals and oils.

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

# **Link to Product**

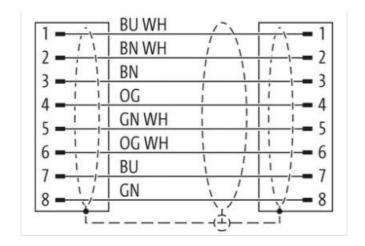
### Illustration

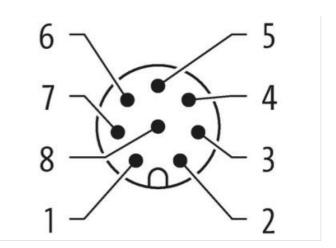


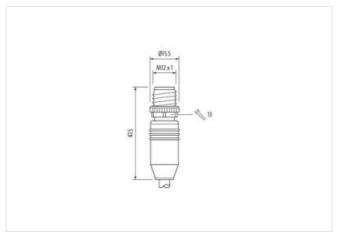




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Product may differ from Image













Cable length	7,5 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Gender	male
Cable outlet	straight
Coding	A
Material contact	Copper alloy
No. of poles	8
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed



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Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
Gender	male
Cable outlet	straight
Coding	A
Material contact	Copper alloy
No. of poles	8
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP67
Commercial data	
ECLASS-6.0	27061801
ECLASS-7.0	27061801
ECLASS-8.0	27061801
ECLASS-9.0	27061801
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-11.1	27060307
ETIM-5.0	EC002599
customs tariff number	85444290
customs tariff number	85444290
EAN	4048879603416
EAN	4048879603416
Packaging unit	1
	1
Packaging unit	
Electrical data   Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Data transmission rate max.	1000 MBit/s
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP65, IP67
Additional condition protection degree	inserted, screwed
Pollution Degree	2
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	T
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
Color housing	black
Coating of fitting	nickel plated
Material screw connection	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
	85 °C
Operating temperature max.	85 C
Operating temperature max.  Additional condition temperature range	depending on cable quality

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: 2025-11-05



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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.

Installation   Cabb  Installat	Conformity	
installation   Cable  iris earangement (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)  able identification SAW  ablet Color bue  debet C		DIN 5N 04070 0 404 (4440)
inter arrangement (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green) able identification SAW able weight 74.8 gm able free or second solution of second solution secon	Product standard	DIN EN 610/6-2-101 (M12)
sable identification         S4W           acker Color         blue           acker Color         blue           woent stranding         4           tranding         2 wires twisted           uncount stranding (type 2)         1           tranding (type 2)         4 Stranded joints twisted           landing         Foil           vire a rangement         (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)           sable weight         74,8 g/m           stablers (jacket)         12 g/m           ladering (jacket)         12 g/m           clearance outer (jacket)         7,6 mm           olerance outer (jacket)         5 %           (sterial wire insulation         HDPE           mount wires         8           butter diameter (sheath)         1,17 mm           butter diameter tolerance core insulation         1,17 mm           butter diameter tolerance core insulation         1,2 mm           gredient freeness wire insulation         1,2 mm           predient freeness wire insulation	Installation   Cable	
acket Color         blue           Ups of Certificate         CURus           mount stranding         4           iferanding         2 wires twisted           mount stranding (type 2)         4 Stranded joints twisted           landing         Foil           vire arrangement         (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)           able weight         74.8 g/m           faterial jacket         TPE           readom from ingredients (jacket)         7.6 mm           olderance outer diameter (gaket)         2.5 %           faterial wire insulation         HDPE           mount wires         8           butter diameter insulation         1.17 mm           butter diameter insulation         1.5 %           faterial wire insulation         1.4 mm           butter diameter insulation         1.4 mm           butter diameter insulation         1.4 mm           butter diameter insulation         1.5 %           faterial wires         2.4 AWG           conductor cross-sev insulation         2.5 %           promiser of single wires         2.4 AWG           faterial conductor wire         copper stranded wire, tinned           formital virial promote of single wire	wire arrangement	(orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)
Type of Cartificate         cURus           mount stranding         4           mount stranding         2 wires twisted           mount stranding (type 2)         1           tranding (type 2)         4 Stranded joints twisted           anding         Foil           pire arrangement         (orange-white, orange), (blue white, blue), (brown-white, brown), (green-white, green)           able weigh         74.8 g/m           stakerial jacket         TPE           readom torn ingredients (jacket)         lead-free, CFC-free           Author-diameter (jacket)         2.6 mm           Johren-diameter (jacket)         2.5 %           staterial wire insulation         HDPE           undustry insulation         HDPE           puber diameter (persecus vire insulation         1.17 mm           puber diameter tolerance core insulation         1.17 mm           puber diameter tolerance core insulation         2.5 %           puber diameter tolerance core insulation         1.5 %           puber diameter fereness wire insulation         1.17 mm           puber diameter foliagle wires         24 AWG           puber diameter of single wires         24 AWG           puber diameter foliagle wires         24 AWG           puber diameter foliagle wires	Cable identification	S4W
A	Jacket Color	blue
	Type of Certificate	cURus
Impure   Stranding (type 2)   1	Amount stranding	4
A Stranded joints twisted   Foil	Stranding	2 wires twisted
Foil   Foil   Corange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)   Price arrangement   Corange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)   Price arrangement   Corange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)   Price arrangement   Pri	Amount stranding (type 2)	1
inter arrangement (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)  74.8 g/m  74.8 g/m  74.8 g/m  74.8 g/m  74.8 g/m  75.6 mm	Stranding (type 2)	4 Stranded joints twisted
Able weight 74,8 g/m  Atterial jacket TPE  readom from ingredients (jacket) lead-free, CFC-free  Juter-diameter (jacket) 7.6 mm  olerance outer diameter (sheath) ± 5 %  Atterial wire insulation HDPE  mount wires 8  Juter diameter insulation 1,17 mm  Juter diameter insulation 1,17 mm  Juter diameter tolerance core insulation 1,17 mm  Juter diameter tolerance core insulation 1,17 mm  Juter diameter tolerance core insulation 1,18 mm  Juter diameter insulation 1,18 mm  Juter diameter fissiple wires 24 AWG  Juter diameter fissiple wires 24 AWG  Juter diameter of single wires 25 AWG  Juter diameter of	Banding	Foil
Material jacket   TPE	wire arrangement	(orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green)
lead-free, CFC-free	Cable weigth	74,8 g/m
obter-diameter (jacket)         7,6 mm           olerance outer diameter (sheath)         ± 5 %           flaterial wire insulation         HDPE           mount wires         8           outer diameter insulation         1,17 mm           outer diameter tolerance core insulation         ± 5 %           predient freeness wire insulation         lead-free, CFC-free           impredient freeness wire insulation         10 lead-free, CFC-free           ingredient freeness wire insulation         coperationsulation           factured is free free free free free free free fre	Material jacket	TPE
Section   Sec	Freedom from ingredients (jacket)	lead-free, CFC-free
Material wire insulation	Outer-diameter (jacket)	7,6 mm
## Autor diameter insulation 1,17 mm    Duter diameter lolerance core insulation 1,17 mm	Tolerance outer diameter (sheath)	±5%
Duter diameter insulation         1,17 mm           Duter diameter tolerance core insulation         ± 5 %           Agredient freeness wire insulation         lead-free, CFC-free           Amount strands (wire)         7           Diameter of single wires         24 AWG           Advisor or crosssection (wire)         24 AWG           Inaterial conductor wire         copper stranded wire, tinned           Iominal voltage AC max.         600 V           Iominal voltage AC max.         600 V           Iournent load capacity (standard)         to DIN VDE 0298-4           Furrent load capacity min, wire         2 A           Selectrical resistance line constant wire         76,4 Ω/km @ 20 °C           Max. operating temperature (static)         -40 °C           Max. operating temperature (fixed)         80 °C           Storage temperature min. (dynamic)         -40 °C           Storage temperature min.         -40 °C           Istorage temperature max.         80 °C           Iame resistance         UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2           hemical resistance         Good, application-related testing           siasoline resistance         Good, application-related testing           it resistance         DIN EN 60811-404   Good, application-related testing      <	Material wire insulation	HDPE
buter diameter tolerance core insulation signedient freeness wire insulation lead-free, CFC-free smount strands (wire) 7 Diameter of single wires 24 AWG Donductor crosssection (wire) 24 AWG Donductor wire copper stranded wire, tinned Dominal voltage AC max. 600 V Durrent load capacity (standard)	Amount wires	8
Ingredient freeness wire insulation Igredient freeness wire Igredient freeness wire Igredient freeness wire insulation Igredient freeness wire insulation Igredient freeness wire insulation Igredient freeness wire insulation Igredient insulation Igredient freeness wire insulation Igredient freen	Outer diameter insulation	1,17 mm
immount strands (wire) 7  Diameter of single wires 24 AWG  Diameter of single wires 25 AWG  Diamete	Outer diameter tolerance core insulation	±5%
AwG conductor crosssection (wire)  24 AWG  Interial conductor wire  copper stranded wire, tinned  Interial conductor wire  copper stranded wire, tined  Interial conductor  copper stranded wire, tined  Interial conductor  copper stranded wire, tined  Interial conductor  copper stranded	Ingredient freeness wire insulation	lead-free, CFC-free
Award Material conductor wire copper stranded wire, tinned  flaterial conductor wire copper stranded wire, tinned  flaterial conductor wire copper stranded wire, tinned  flowinal voltage AC max. 600 V  four rent load capacity (standard) to DIN VDE 0298-4  furnent load capacity min. wire 2 A  furnent load capacity min. wire 2 A  flectrical resistance line constant wire 76,4 Ω/km @ 20 °C  flin. operating temperature (static) -40 °C  flax. operating temperature (fixed) 80 °C  florerating temperature min. (dynamic) -40 °C  florerating temperature max. (dynamic) 80 °C  florerating temperature max. (dynamic) 80 °C  florerating temperature max. 80 °C  florerating temperature m	Amount strands (wire)	7
Alterial conductor wire copper stranded wire, tinned forminal voltage AC max. 600 V corrent load capacity (standard) to DIN VDE 0298-4 corrent load capacity min. wire 2 A corrent load capacity min. wire 2 A corrent load capacity min. wire 2 A correct load capacity min. wire 2 A correct load capacity min. wire 3 A Ω °C correct load capacity min. wire 4 °C correct load capacity min. (dynamic) 40 °C correct load capacity min. 40 °	Diameter of single wires	24 AWG
Iominal voltage AC max.  600 V  Fourient load capacity (standard)  Fourient load capacity min. wire  2 A  Fourient load capacity min. wire  2 A  Fourient load capacity min. wire  2 A  Fourient load capacity min. wire  3 6,4 Ω/km @ 20 °C  Fourient load capacity min. wire  40 °C  Fourient load capacity min. wire  80 °C  Fou	Conductor crosssection (wire)	24 AWG
burrent load capacity (standard)  burrent load capacity min. wire  2 A  cliectrical resistance line constant wire  76,4 Ω/km @ 20 °C  din. operating temperature (static)  Ao °C  dex. operating temperature (fixed)  80 °C  operating temperature min. (dynamic)  Ao °C  operating temperature max.  Operating temperature	Material conductor wire	copper stranded wire, tinned
Furrent load capacity min. wire  2 A  Flectrical resistance line constant wire  76,4 Ω/km @ 20 °C  Flan. operating temperature (static)  Aux. operating temperature (fixed)  80 °C  Apperating temperature min. (dynamic)  Aux operating temperature min. (dynamic)  Aux operating temperature min. (dynamic)  Aux operating temperature max. (dynamic)  80 °C  Aux. operating temperature max. (dynamic)  Bu °C  Aux operating temperature max. (dynamic)  Bu °C  Aux operating temperature max. (dynamic)  Aux operating temperature max. (dynamic)  Bu °C  Aux operating temperature max. (dynamic)  Aux operating temperature max. (dynamic)  Bu °C	Nominal voltage AC max.	600 V
Telectrical resistance line constant wire 76,4 Ω/km @ 20 °C  Max. operating temperature (static) -40 °C  Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -40 °C  Operating temperature max. (dynamic) 80 °C  Storage temperature min40 °C  Storage temperature max. 80 °C  Itame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Themical resistance Good, application-related testing  Storage temperature max. DIN EN 60811-404   Good, application-related testing  Storage temperature max. 10 × Outer diameter  Storage temperature max. 10 × Outer diameter 10 × Ou	Current load capacity (standard)	to DIN VDE 0298-4
Alin. operating temperature (static)  Alin. operating temperature (fixed)  Alin. operating temperature (fixed)  Alin. operating temperature min. (dynamic)  Alin. operating temperature min. (dynamic)  Alin. operating temperature min. (dynamic)  Alin. operating temperature max. (dynamic)  Alin. operating temperature min. (dynamic)  Alin. operating temperature max. (dynamic)  Alin. operating temperature min. (dynamic)  Alin. operating temperature max. (dynamic)  Alin. operating temperature min. operation min.	Current load capacity min. wire	2 A
Max. operating temperature (fixed) 80 °C  Operating temperature min. (dynamic) -40 °C  Operating temperature max. (dynamic) 80 °C  Storage temperature min40 °C  Storage temperature max. 80 °C  Idame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Themical resistance Good, application-related testing  Gasoline resistance Good, application-related testing  DIN EN 60811-404   Good, application-related testing  Stending radius (fixed) 4 x Outer diameter  Stending radius (dynamic) 10 x Outer diameter  Stending cycles (C-track) 1 Mio. @ 25 °C  Storage temperature max. 80 °C  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Storage temperature max. 80 °C  Storage temperature max. 80 °C  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Storage temperature max. 80 °C  Storage temperature min. 40 °C  Storage temperature max. 80 °C  Storage temperature max. 80 °C  Storage temperature max. 80 °C  Storage temperature min. 40 °C  Storage temperature min. 40 °C  Storage temperature min. 40 °C  Storage temperature max. 80 °C  S	Electrical resistance line constant wire	76,4 Ω/km @ 20 °C
Operating temperature min. (dynamic) Operating temperature max. (dynamic) Operating t	Min. operating temperature (static)	-40 °C
Operating temperature max. (dynamic) 80 °C  Storage temperature min40 °C  Storage temperature max. 80 °C  Ilame resistance UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  Ihemical resistance Good, application-related testing  Sasoline resistance Good, application-related testing  DIN EN 60811-404   Good, application-related testing  Sending radius (fixed) 4 x Outer diameter  Sending radius (dynamic) 10 x Outer diameter  Io. of bending cycles (C-track) 1 Mio. @ 25 °C  Io. of torsion cycles 3 Mio. 25 °C	Max. operating temperature (fixed)	80 °C
storage temperature min.  -40 °C  Storage temperature max.  80 °C  Itame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  hemical resistance  Good, application-related testing  Good, application-related testing  DIN EN 60811-404   Good, application-related testing  stending radius (fixed)  4 x Outer diameter  stending radius (dynamic)  10 x Outer diameter  Io. of bending cycles (C-track)  1 Mio. @ 25 °C  3 Mio. 25 °C	Operating temperature min. (dynamic)	-40 °C
Storage temperature max.  80 °C  Idame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  themical resistance  Good, application-related testing  Good, application-related testing  DIN EN 60811-404   Good, application-related testing  tending radius (fixed)  4 x Outer diameter  dending radius (dynamic)  10 x Outer diameter  10 of bending cycles (C-track)  1 Mio. @ 25 °C  10 of torsion cycles  3 Mio. 25 °C	Operating temperature max. (dynamic)	80 °C
Ilame resistance  UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  hemical resistance  Good, application-related testing  Good, application-related testing  DIN EN 60811-404   Good, application-related testing  dending radius (fixed)  4 x Outer diameter  dending radius (dynamic)  10 x Outer diameter  10. of bending cycles (C-track)  1 Mio. @ 25 °C  10. of torsion cycles  3 Mio. 25 °C	Storage temperature min.	-40 °C
hemical resistance Good, application-related testing Good, application-related testing DIN EN 60811-404   Good, application-related testing dending radius (fixed) 4 x Outer diameter dending radius (dynamic) 10 x Outer diameter do. of bending cycles (C-track) 1 Mio. @ 25 °C do. of torsion cycles 3 Mio. 25 °C	Storage temperature max.	
Good, application-related testing DIN EN 60811-404   Good, application-related testing dending radius (fixed) 4 x Outer diameter dending radius (dynamic) 10 x Outer diameter do. of bending cycles (C-track) 1 Mio. @ 25 °C do. of torsion cycles 3 Mio. 25 °C	Flame resistance	
DIN EN 60811-404   Good, application-related testing  dending radius (fixed) 4 x Outer diameter  dending radius (dynamic) 10 x Outer diameter  do. of bending cycles (C-track) 1 Mio. @ 25 °C  do. of torsion cycles 3 Mio. 25 °C	chemical resistance	
dending radius (fixed)  4 x Outer diameter  dending radius (dynamic)  10 x Outer diameter  10. of bending cycles (C-track)  1 Mio. @ 25 °C  10. of torsion cycles  3 Mio. 25 °C	Gasoline resistance	
lending radius (dynamic)  10 x Outer diameter  10. of bending cycles (C-track)  1 Mio. @ 25 °C  10. of torsion cycles  3 Mio. 25 °C	Oil resistance	DIN EN 60811-404   Good, application-related testing
lo. of bending cycles (C-track) 1 Mio. @ 25 °C lo. of torsion cycles 3 Mio. 25 °C	Bending radius (fixed)	
lo. of torsion cycles 3 Mio. 25 °C	Bending radius (dynamic)	
,	No. of bending cycles (C-track)	
orsion stress ± 270 °/m	No. of torsion cycles	3 Mio. 25 °C
	Torsion stress	± 270 °/m