

M12 male 0° A-cod. / RJ45 male 0° shielded

TPE 4x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 10m

Art.No.: 7700-48521-S4W1000 Weight: 0.702 Country of origin: DE Model designation: MSAL0-RA-08DS4W_10.0-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 <u>on request</u>

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

Product details:

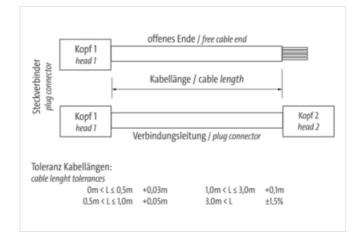
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request. Ethernet CAT5

Ethernet CAT5e Male straight – male straight M12 – RJ45, 8-pole shielded USA without cable sleeves Plastic housings with good resistance against chemicals and oils.

Link to Product

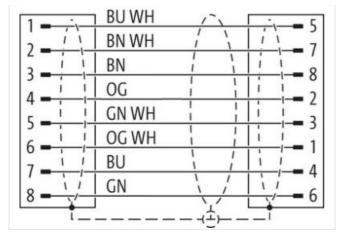
Illustration

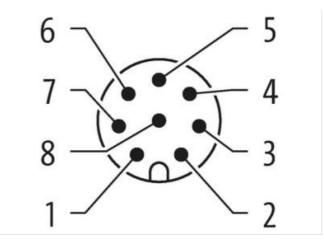


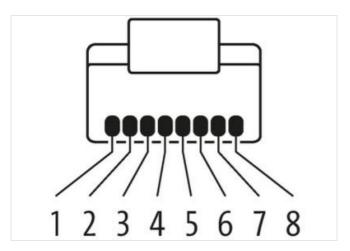


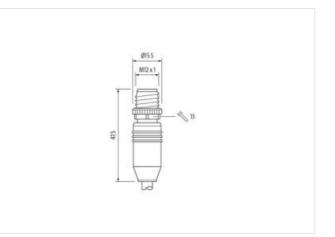
The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-09-15

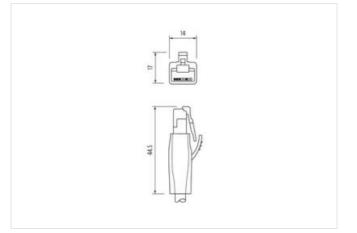












Product may differ from Image



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| Mounting method | inserted, screwed |
|--|--|
| Coating contact | gold plated |
| Family construction form | M12 |
| Thread | M12 x 1 |
| Gender | male |
| Cable outlet | straight |
| Coding | Α |
| Material contact | Copper alloy |
| No. of poles | 8 |
| Width across flats | SW13 |
| Degree of protection (EN IEC 60529) | IP67 |
| Side 2 | |
| Mounting method | inserted |
| Family construction form | RJ45 |
| Cable outlet | straight |
| No. of poles | 8 |
| Degree of protection (EN IEC 60529) | IP20 |
| Commercial data | • |
| ECLASS-6.0 | 27061801 |
| ECLASS-6.0 ECLASS-7.0 | 27061801 |
| ECLASS-8.0 | 27061801 |
| ECLASS-9.0 | 27061801 |
| ECLASS-9.0 ECLASS-10.1 | 27060307 |
| | |
| ECLASS-11.1 | 27060307 |
| ECLASS-12.0 ETIM-5.0 | 27060307 |
| | EC002599 |
| customs tariff number EAN | 85444290 |
| | 4048879662406 |
| Packaging unit | |
| Electrical data Supply | 60 V |
| Operating voltage DC Current operating per contact max. | 1,5 A |
| | 1,5 A |
| Industrial communication | |
| Transfer parameters | CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) |
| Data transmission rate max. | 100 MBit/s |
| Device protection Electrical | |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree | 2 |
| Rated surge voltage | 0,8 kV |
| Material group (IEC 60664-1) | |
| 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 |
| Environmental characteristics Climatic | |
| Operating temperature min. | -25 °C |
| Operating temperature max. | 85 °C |
| Additional condition temperature range | depending on cable quality |
| | |
| Important installation notes | ne utmost care. |

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| Biodingeneous Biodingeneous Biodingeneous Concorning Din En 61076-2-101 (M12) Installation [Cable Unit enangement (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green) Bable Identification S4W Isoand Cable Control Blue Standard (brown-white, brown), (green-white, green) Standard (brown-white, brown), (green-white, green) Standard Standard (brown-white, brown), (green-white, green) Standard (brown-white, brown), (green-white, green) Standard (brown-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green) Standard (brown-white, brown), (green-white, green) Standard (brown-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green) Standard (brown-white, brown), (green-white, green) Standard Standard (brown-white, blue), (brown-white, brown), (green-white, green) Standard (brown-white, brown), (green-white, green) Standard Standard (brown-standard Weith) Standard (brown-white, brown), (green-white, green) Standard (brown-white, brown), (green-white, green) Standard Standard (brown-standard Weith) Standard (brown-white, brown), (green-white, green) Standard (brown-white, brown), (green-white, green) Standard Standard (brown) Standard (brown-white, brown), (green-white, green)< | Note on strain relief | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties. |
|--|--|---|
| Product standard DIN EN 61076-2-101 (M12) Installation [Cable] Urice arrangement (orange-white, orange), (blue-white, brown), (green-white, green) Jackel Color Due Jackel Color Due Isolard Color Due Vancount Standing 4 Standing 4 Standing (ype 2) 4 Standad joints twisted Standard (ype 2) 4 Standad joints twisted Standard Joints Wals Standard Joints Wals Jacker Standard Joints (Jacker Mile, orange-white, blue), (brown-white, brown), (green-white, green) Jacker Standard Joints Wals Jacker Standard Joints Wals Jacker Standard Joints Wals Jacker Standard Joints Wals Jacker Standard Joints (Jacker) 7.6 Vancount Standing 7.8 Jacker Standard Joints (Jacker) 7.6 Vancount Standing 5.% Jacker Standard Joints (Jacker) 7.7 Joint Gameer (Jacker) 7.7 Jacker Standard Joints (Jacker) 9.0 Jure daria wire insulation 1.9 NV DE 0258-4 Jure daria wire insulation 2.4 | Note on bending radius | |
| Instaliation Cable wire arrangement (orange white, orange), (blue white, blue), (brown white, brown), (green-white, green) Sable identification S4W ackel Colo blue 'ype of Certificate cURus umount stranding 4 Stranding (type 2) 1 Stranding (type 2) 4 Stranded joints twisted anding (type 2) 4 Stranded joints twisted anding (type 2) 4 Stranded joints twisted anding (type 2) 4 Stranded joints twisted andrail jackst TPE "readem from ingredients (jacket) lead-free, CFC-free Duter-diameter (facket) 7,6 mm Orange outrif its and strain strain its in strain and its installon HDPE Wire diameter insulation HDPE Strain and analeter (sheath) ± 5 %. Duter-diameter insulation 1.17 rm Duter diameter insulation 1.27 rm Duter diameter insulation 1.27 rm Duter diameter insulation 1.5 %. Adaeria ovori insulation 1.27 rm Duter dinameter insulation 1.07 rm | Conformity | |
| vire arrangement (orange-white, orange), (blue-white, blue), (brown-white, brown), (green-white, green) zable identification SAW acakel Color blue joe of Certificate CURus wmount stranding 4 stranding 2 wires twisted wmount stranding (type 2) 1 stranding (type 2) 4 Stranded joints twisted stranding (type 2) 5 % stranding (type 2) 7.8 mm calco and twisted TPE stranding (tacket) 7.6 mm colerance outer diameter (sheath) ± 5 % stranding wire insulation HDPE wmount strands (wire) 7 stranding wire insulation 1.17 mm Duter diameter insulation Lead-free, CFC-free wmount strands (wire) 7 Stranding (trees wire insulation) Lead-free, CFC-free < | Product standard | DIN EN 61076-2-101 (M12) |
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| Folerance outer diameter (sheath) ± 5 % Ataterial wire insulation HDPE Amount wires 8 Duter diameter insulation 1.17 mm Duter diameter tolerance core insulation ± 5 % mount strands (wire) ± 5 % Diameter tolerance core insulation lead-free, CFC-free mount strands (wire) 7 Diameter of single wires 24 AWG Conductor crosssection (wire) 24 AWG Aaterial conductor wire copper stranded wire, tinned Somial voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 2 A Aateriaig temperature (static) -40 °C Aax. operating temperature (static) -40 °C Aax. operating temperature min. 40 °C Storage temperature min. 40 °C Storage temperature max. 80 °C Tiame resistance UL 1581 § 1100 FT2 UL 1581 § 1009 IEC 60332-2-2 themical resistance Good, application-related testing | Freedom from ingredients (jacket) | lead-free, CFC-free |
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| Nominal voltage AC max.600 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire2 AElectrical resistance line constant wire76,4 Ω/km @ 20 °CMin. operating temperature (static)-40 °CMax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-40 °COperating temperature max. (dynamic)80 °CStorage temperature min.60 °CStorage temperature max.80 °CBase temperature max.80 °CBase temperature max.60 °CGood, application-related testingGood, application-related testing | Conductor crosssection (wire) | 24 AWG |
| Current load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire2 AClectrical resistance line constant wire76,4 Ω/km @ 20 °CAin. operating temperature (static)-40 °CAax. operating temperature (fixed)80 °COperating temperature min. (dynamic)-40 °CAperating temperature max. (dynamic)80 °CStorage temperature min40 °CStorage temperature max.80 °CStorage temperature max.80 °CCharacter max.80 °CStorage temperature max.80 °CStorage temperature max.80 °CStorage temperature max.60 °CStorage temperature max.80 °CStorage temperature max.60 °CStorage temperature max.80 °CStorage temperature max.60 °CGood, application-related testingGood, application-related testing | Material conductor wire | copper stranded wire, tinned |
| Current load capacity min. wire 2 A Electrical resistance line constant wire 76,4 Ω/km @ 20 °C Min. 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 min. -40 °C Storage temperature max. 80 °C Elemencal resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing | Nominal voltage AC max. | 600 V |
| Electrical resistance line constant wire 76,4 Ω/km @ 20 °C Min. 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 min. -40 °C Storage temperature max. 80 °C Tame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing | Current load capacity (standard) | to DIN VDE 0298-4 |
| Ain. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -40 °C Operating temperature max. (dynamic) 80 °C Operating temperature min. 80 °C Storage temperature min. -40 °C Storage temperature max. 80 °C "Interesistance 80 °C "Interesistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Storage temperature max.ce Good, application-related testing | 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 min. -40 °C Storage temperature max. 80 °C Storage temperature max. 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Storage temperature max. Good, application-related testing Gasoline resistance Good, application-related testing | Electrical resistance line constant wire | 76,4 Ω/km @ 20 °C |
| Operating temperature min. (dynamic) -40 °C Operating temperature max. (dynamic) 80 °C Storage temperature min. -40 °C Storage temperature max. 80 °C Storage temperature max. 80 °C Storage temperature max. 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Schemical resistance Good, application-related testing Gasoline resistance Good, application-related testing | Min. operating temperature (static) | -40 °C |
| Operating temperature max. (dynamic) 80 °C Storage temperature min. -40 °C Storage temperature max. 80 °C Tame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing | Max. operating temperature (fixed) | 0° 08 |
| Storage temperature min. -40 °C Storage temperature max. 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 Schemical resistance Good, application-related testing Gasoline resistance Good, application-related testing | Operating temperature min. (dynamic) | -40 °C |
| Storage temperature max. 80 °C Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing | Operating temperature max. (dynamic) | 0° 08 |
| Flame resistance UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing | Storage temperature min. | -40 °C |
| Good, application-related testing Good, application-related testing Good, application-related testing | Storage temperature max. | 0° 08 |
| Gasoline resistance Good, application-related testing | Flame resistance | UL 1581 § 1100 FT2 UL 1581 § 1090 IEC 60332-2-2 |
| | chemical resistance | Good, application-related testing |
| Dil resistance DIN EN 60811-404 Good, application-related testing | Gasoline resistance | Good, application-related testing |
| | Oil resistance | DIN EN 60811-404 Good, application-related testing |
| Bending radius (fixed) 4 x Outer diameter | Bending radius (fixed) | 4 x Outer diameter |
| Bending radius (dynamic) 10 x Outer diameter | Bending radius (dynamic) | 10 x Outer diameter |
| No. of bending cycles (C-track) 1 Mio. @ 25 °C | No. of bending cycles (C-track) | 1 Mio. @ 25 °C |
| No. of torsion cycles 3 Mio. 25 °C | No. of torsion cycles | 3 Mio. 25 °C |
| Torsion stress ± 270 °/m | Torsion stress | ± 270 °/m |

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: 2025-09-15