

stay connected

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

TPE 22AWG SF/UTP CAT5e gn UL/CSA. ITC/PLTC 7.5m

Art.No.: 7700-44711-S7V0750

Weight: 0.539 Country of origin: US

Model designation: MSRAL0-DA-TS7V 7.5-ZS

Ethernet CAT5

Plastic housings with good resistance against chemicals and oils.

Male straight - male straight

Transmission properties with channel transmission up to 100 m

M12 - RJ45, 4-pole

D-coded shielded

USA

without cable sleeves

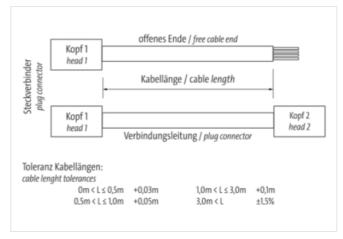
Protection cap

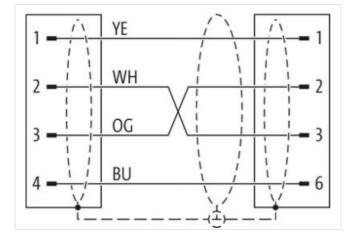
Further cable lengths on request.

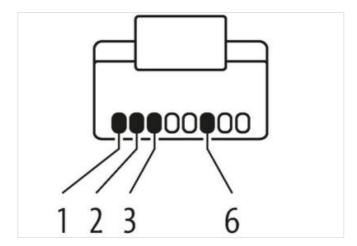
Link to Product

Illustration



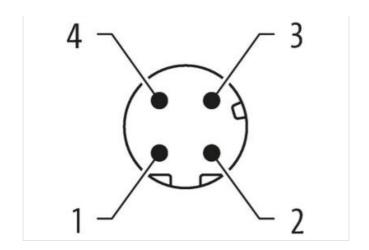


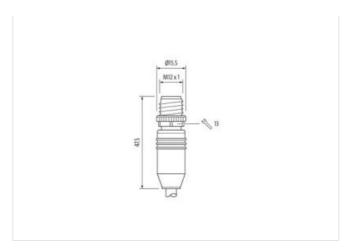


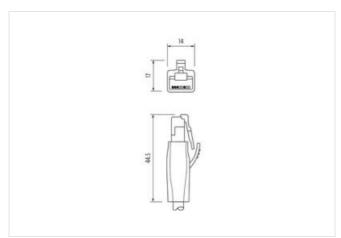




stay connected







Product may differ from Image













Cable length	7,5 m
Side 1	
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
Cable outlet	straight
Coding	D
No. of poles	4
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Side 2	
Mounting method	pluggable
Family construction form	RJ45
Cable outlet	straight
No. of poles	4
Degree of protection (EN IEC 60529)	IP20
Commercial data	



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ECLASS-6.0	27061801
ECLASS-6.1	
	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC002599
customs tariff number	85444290
customs tariff number	85444290
EAN	4048879668699
EAN	4048879668699
Packaging unit	1
Packaging unit	1
Electrical data Supply	
Operating voltage DC max.	60 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	1,5 A
Industrial communication	
	CATE Olses D (190/150 14004-0000) (FN 50470 4)
Transfer parameters Data transmission rate max.	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1) 100 MBit/s
Industrial communication Ethernet fun	ctionality
duplex	Full duplex
Device protection Electrical	
Pollution Degree	3
Rated surge voltage	1 kV
Material group (IEC 60664-1)	
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature min.	85 °C
	depending on cable quality
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation Cable	
•	(white blue) (arange vellow)
wire arrangement	(white, blue), (orange, yellow)
Cable identification	S7V
Jacket Color	green
Type of Certificate	cURus
Amount stranding	2
Stranding	2 wires twisted
Amount stranding (type 2)	1
Stranding (type 2)	2 Stranded joints twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	75 %
	Foil
Banding wire arrangement	(white, blue), (orange, yellow)

Torsion stress



Material jacket TPE Freedom from ingredients (jacket) lead-free, CFC-free Outer-diameter (jacket) 7,87 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation HDPE Amount wires 4 Outer diameter insulation 1,47 mm Outer diameter rolerance core insulation lead-free, CFC-free Amount strands (wire) 19 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Nominal 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 (standard) to DIN VDE 0298-4 Min. operating temperature (static) 4,8 A Electrical resistance line constant wire 45,1 Ω/km Min. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -40 °C Operating temperature min. -40 °C Storage temperature max. 80 °C		
Freedom from ingredients (jacket) Outer-diameter (jacket) 7,87 mm Tolerance outer diameter (sheath) ### ### ### ### ### ### ### ### ### #	Cable weigth	74,8 g/m
Outer-diameter (jacket) 7,87 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation HDPE Amount wires 4 Outer diameter insulation 1,47 mm Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free Amount strands (wire) 19 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Nominal voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity (standard) to DIN VDE 0298-4 Circer (resistance line constant wire 45,1 Ω/km Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Max. operating temperature min. (dynamic) 40 °C Operating temperature max. (dynamic) 80 °C Storage temperature max. 80 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090	Material jacket	TPE
Tolerance outer diameter (sheath) ± 5 % Material wire insulation HDPE Amount wires 4 Outer diameter insulation 1,47 mm Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free Amount strands (wire) 19 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Nominal 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 4,8 A Electrical resistance line constant wire 45,1 Ω/km Min. operating temperature (fixed) 80 °C Operating temperature (mixed) 80 °C Operating temperature max. (dynamic) 40 °C Storage temperature max. (dynamic) 80 °C Flame resistance [EC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1990 chemical resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Cuter diameter No. of bending cycles (C-track) 35 Mio.	Freedom from ingredients (jacket)	lead-free, CFC-free
Material wire insulation HDPE Amount wires 4 Outer diameter insulation 1,47 mm Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free Amount strands (wire) 19 Diameter of single wires 22 AWG Conductor orssection (wire) 22 AWG Conductor wire copper stranded wire, tinned Nominal voltage AC max. 600 V Current load capacity (standard) to DIN NDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 45,1 Ω/km 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 max. 80 °C Storage temperature max. 600d, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic)	Outer-diameter (jacket)	7,87 mm
Amount wires 4 Outer diameter insulation 1.47 mm Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free Amount strands (wire) 19 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Nominal 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 resistance line constant wire 45,1 Ω/km 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 max. 80 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance </td <td>Tolerance outer diameter (sheath)</td> <td>±5%</td>	Tolerance outer diameter (sheath)	±5%
Outer diameter insulation 1,47 mm Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free Amount strands (wire) 19 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Nominal voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 45,1 Ω/km 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 max. 80 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing Oi	Material wire insulation	HDPE
Outer diameter tolerance core insulation ± 5 % Ingredient freeness wire insulation lead-free, CFC-free Amount strands (wire) 19 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Nominal voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4.8 A Electrical resistance line constant wire 45,1 Ω/km 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 max. 80 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 × Outer diameter <td>Amount wires</td> <td>4</td>	Amount wires	4
Ingredient freeness wire insulation lead-free, CFC-free	Outer diameter insulation	1,47 mm
Amount strands (wire) 19 Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Nominal voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) 40 °C Storage temperature min. 40 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Oil resistance Good, application-related testing No. of bending cycles (C-track) 35 Mio.	Outer diameter tolerance core insulation	±5%
Diameter of single wires 22 AWG Conductor crosssection (wire) 22 AWG Material conductor wire copper stranded wire, tinned Nominal voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 45,1 Ω/km Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) Operating temperature min. (dynamic) Storage temperature max. (dynamic) Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 × Outer diameter No. of bending cycles (C-track) 35 Mio.	Ingredient freeness wire insulation	lead-free, CFC-free
Conductor crosssection (wire) Material conductor wire copper stranded wire, tinned Nominal voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire Min. operating temperature (static) 40°C Max. operating temperature (fixed) A0°C Operating temperature min. (dynamic) Operating temperature max. (dynamic) Storage temperature max. 80°C Storage temperature max. 80°C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Amount strands (wire)	19
Material conductor wire copper stranded wire, tinned Nominal voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 45,1 Ω/km Min. operating temperature (static) -40 °C Max. operating temperature (fixed) 80 °C Operating temperature min. (dynamic) -40 °C Storage temperature max. (dynamic) 80 °C Storage temperature max. Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Diameter of single wires	22 AWG
Nominal voltage AC max. 600 V Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 45,1 Ω/km 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 Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Conductor crosssection (wire)	22 AWG
Current load capacity (standard) to DIN VDE 0298-4 Current load capacity min. wire 4,8 A Electrical resistance line constant wire 45,1 Ω/km 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 min40 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 × Outer diameter No. of bending cycles (C-track) 35 Mio.	Material conductor wire	copper stranded wire, tinned
Current load capacity min. wire 4,8 A Electrical resistance line constant wire 45,1 Ω/km 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 max. (dynamic) -40 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Nominal voltage AC max.	600 V
Electrical resistance line constant wire 45,1 Ω/km 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 min40 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Current load capacity (standard)	to DIN VDE 0298-4
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 Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Current load capacity min. wire	4,8 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 Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Electrical resistance line constant wire	45,1 Ω/km
Operating temperature min. (dynamic) Operating temperature max. (dynamic) 80 °C Storage temperature min40 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Min. operating temperature (static)	-40 °C
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Storage temperature min. -40 °C Storage temperature max. 80 °C Flame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090 chemical resistance Good, application-related testing Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Operating temperature min. (dynamic)	-40 °C
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Gasoline resistance Good, application-related testing Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
Oil resistance Good, application-related testing DIN EN 60811-404 Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	chemical resistance	Good, application-related testing
Bending radius (dynamic) 8 x Outer diameter No. of bending cycles (C-track) 35 Mio.	Gasoline resistance	Good, application-related testing
No. of bending cycles (C-track) 35 Mio.	Oil resistance	Good, application-related testing DIN EN 60811-404
• · · · · ·	Bending radius (dynamic)	8 x Outer diameter
No. of torsion cycles 5 Mio.	No. of bending cycles (C-track)	35 Mio.
	No. of torsion cycles	5 Mio.

± 180 °/m