

stay connected

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

TPE 22AWG SF/UTP CAT5e gn UL/CSA. ITC/PLTC 5m

Art.No.: 7700-44711-S7V0500

Weight: 0.369 Country of origin: US

Model designation: MSRAL0-DA-TS7V 5.0-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

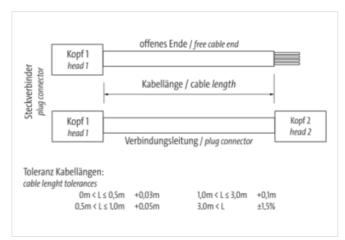
Protection cap

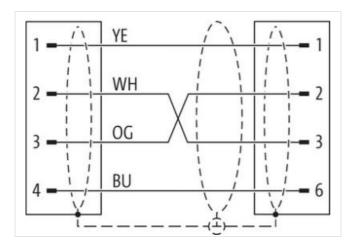
Further cable lengths on request.

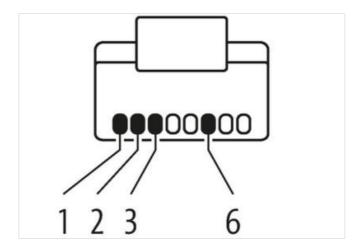
## **Link to Product**

## Illustration



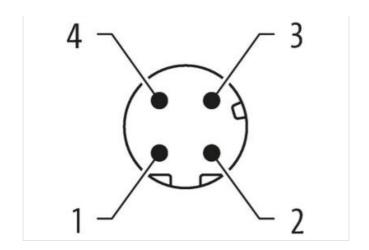


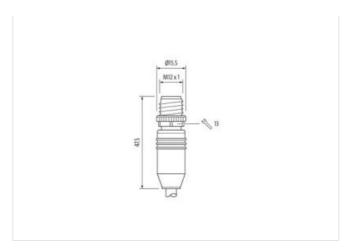


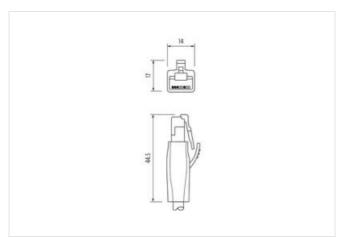




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Product may differ from Image













Cable length	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	
ECLASS-6.1	27060307 27060307
ECLASS-7.0 ECLASS-8.0	27060307
ECLASS-8.0 ECLASS-9.0	27060307
ECLASS-9.0 ECLASS-10.1	
	27060307
ECLASS-11.1 ECLASS-12.0	27060307 27060307
ETIM-5.0	EC002599
customs tariff number	85444290
EAN	4048879668682
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	
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
p	
Data transmission rate max.	100 MBit/s
Data transmission rate max.	
Data transmission rate max.  Industrial communication   Ethernet func	tionality
Data transmission rate max.  Industrial communication   Ethernet function   Ethernet function	tionality
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical Pollution Degree	Full duplex
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage	Full duplex 3
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)	Full duplex  3 1 kV
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)  Environmental characteristics   Climatic	Full duplex  3 1 kV
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)  Environmental characteristics   Climatic  Operating temperature min.	Full duplex  3 1 kV I
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.	Full duplex  3 1 kV I  -25 °C 85 °C
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)  Environmental characteristics   Climatic Operating temperature min. Operating temperature max.  Additional condition temperature range	Full duplex  3 1 kV I
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.	Full duplex  3 1 kV I  -25 °C 85 °C depending on cable quality
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Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Conformity  Product standard  Installation   Cable  wire arrangement	Full duplex  3 1 kV I  -25 °C 85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  (white, blue), (orange, yellow)
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Jacket Color	Full duplex  3 1 kV 1  -25 °C 85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  (white, blue), (orange, yellow)  S7V
Data transmission rate max.  Industrial communication   Ethernet function   duplex  Device protection   Electrical  Pollution Degree  Rated surge voltage  Material group (IEC 60664-1)  Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  Additional condition temperature range  Important installation notes  Note on strain relief  Note on bending radius  Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Jacket Color  Type of Certificate	Full duplex  3 1 kV I  -25 °C 85 °C depending on cable quality  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  (white, blue), (orange, yellow)  S7V green cURus
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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: 2025-10-31



Amount stranding (type 2)	1
Stranding (type 2)	2 Stranded joints twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	75 %
Banding	Foil
wire arrangement	(white, blue), (orange, yellow)
Cable weigth	74,8 g/m
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 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 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.
No. of torsion cycles	5 Mio.
Torsion stress	± 180 °/m