

## RJ45 male 0° / RJ45 male 0° shielded

TPE 2x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 10m

Art.No.: 7700-74301-S4U1000

Weight: 0.578 Country of origin: US

Model designation: MSRAL0-RA-8p4cS4U\_10.0

Ethernet CAT5
Male straight – male straight
RJ45 – RJ45, 4-pole
shielded

without cable sleeves

maximum length at channel transmission corresponds to 70 m

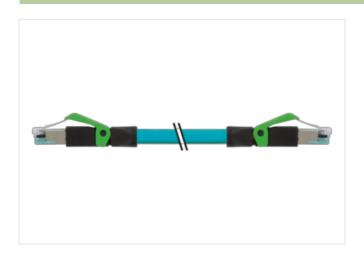
Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

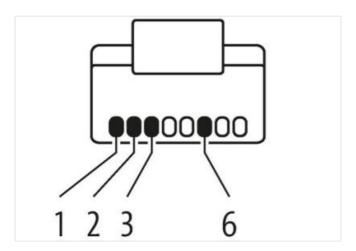
The resistance to aggressive media should be individually tested for your application. Further details on request.

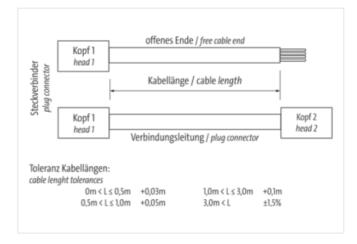
## **Link to Product**

## Illustration



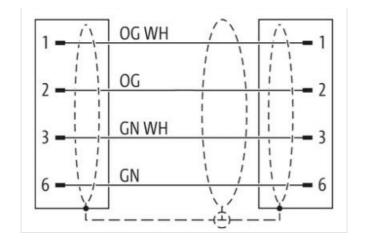


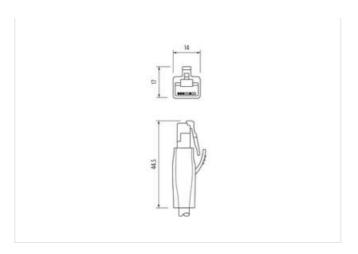


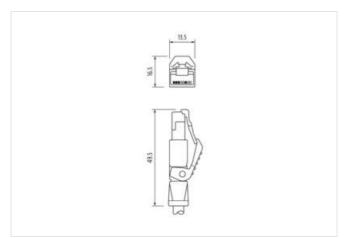




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Product may differ from Image







Cable length	10 m	
Side 1		
Mounting method	inserted	
Family construction form	RJ45	
No. of poles	4	
Side 2		
Family construction form	RJ45	
No. of poles	4	
Commercial data		
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	

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: 2025-07-13



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ETIM-5.0	EC002599	
customs tariff number	85444210	
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EAN	4048879619653	
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Packaging unit	1	
Packaging unit	1	
Electrical data   Supply		
Operating voltage DC max.	60 V	
Industrial communication		
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)	
Data transmission rate max.	100 MBit/s	
Industrial communication   Ethernet fund	ctionality	
duplex	Full duplex	
·	i dii dupiex	
Device protection   Electrical		
Pollution Degree	3	
Rated surge voltage	1 kV	
Material group (IEC 60664-1)	I	
Environmental characteristics   Climatic		
Operating temperature min.	-25 °C	
Operating temperature max.	85 °C	
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.	
Installation   Cable		
	(orange-white, orange), (green-white, green)	
wire arrangement  Cable identification	S4U	
Cable identification		
Function cable	Data	
Function cable Jacket Color	Data teal	
Function cable Jacket Color Type of Certificate	Data teal cURus	
Function cable Jacket Color Type of Certificate Amount stranding	Data teal cURus 2	
Function cable Jacket Color Type of Certificate Amount stranding Stranding	Data teal cURus 2 2 wires twisted	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2)	Data teal cURus 2 2 wires twisted 1	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2)	Data teal cURus 2 2 wires twisted 1 2 Stranded joints twisted	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type)	Data teal cURus 2 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage)	Data  teal  cURus  2  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  75 %	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding	Data teal cURus 2 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 75 % Foil	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement	Data  teal  cURus  2  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  75 %  Foil  (orange-white, orange), (green-white, green)	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max.	Data  teal  cURus  2  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  75 %  Foil  (orange-white, orange), (green-white, green)  83 m	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth	teal cURus 2 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 75 % Foil (orange-white, orange), (green-white, green) 83 m 55,66 g/m	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket	teal cURus  2 2 wires twisted  1 2 Stranded joints twisted copper braid, tinned 75 % Foil (orange-white, orange), (green-white, green) 83 m 55,66 g/m TPE	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket Freedom from ingredients (jacket)	teal cURus 2 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 75 % Foil (orange-white, orange), (green-white, green) 83 m 55,66 g/m TPE lead-free, CFC-free	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	teal cURus  2 2 wires twisted  1 2 Stranded joints twisted copper braid, tinned  75 % Foil (orange-white, orange), (green-white, green)  83 m  55,66 g/m  TPE lead-free, CFC-free 6,6 mm	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	teal cURus 2 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 75 % Foil (orange-white, orange), (green-white, green) 83 m 55,66 g/m TPE lead-free, CFC-free 6,6 mm ± 5 %	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	Data  teal  cURus  2  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  75 %  Foil  (orange-white, orange), (green-white, green)  83 m  55,66 g/m  TPE  lead-free, CFC-free  6,6 mm  ± 5 %  HDPE	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	Data  teal  cURus  2  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  75 %  Foil  (orange-white, orange), (green-white, green)  83 m  55,66 g/m  TPE  lead-free, CFC-free  6,6 mm  ± 5 %  HDPE  4	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	Data  teal  cURus  2  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  75 %  Foil  (orange-white, orange), (green-white, green)  83 m  55,66 g/m  TPE  lead-free, CFC-free  6,6 mm  ± 5 %  HDPE  4  1,22 mm	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	teal cURus 2 2 wires twisted 1 2 Stranded joints twisted copper braid, tinned 75 % Foil (orange-white, orange), (green-white, green) 83 m 55,66 g/m TPE lead-free, CFC-free 6,6 mm ± 5 % HDPE 4 1,22 mm ± 5 %	
Function cable Jacket Color Type of Certificate Amount stranding Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) Cable shielding (coverage) Banding wire arrangement Cable length max. Cable weigth Material jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	Data  teal  cURus  2  2 wires twisted  1  2 Stranded joints twisted  copper braid, tinned  75 %  Foil  (orange-white, orange), (green-white, green)  83 m  55,66 g/m  TPE  lead-free, CFC-free  6,6 mm  ± 5 %  HDPE  4  1,22 mm	



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Diameter of single wires	24 AWG
Conductor crosssection (wire)	24 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	2,4 A
Characteristic impedance	100 Ω @ 100 MHz
Electrical resistance line constant wire	76,4 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	1,5 kV @ 2 s
Power frequency withstand voltage (wire - jacket)	1,5 kV @ 2 s
Loop resistance	280 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	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404   Good, application-related testing
Bending radius (fixed)	8 x Outer diameter
Bending radius (dynamic)	8 x Outer diameter
No. of bending cycles (C-track)	35 Mio.
Traversing distance (C-track)	0,6 m
Travel speed (C-track)	1,2 m/s
No. of torsion cycles	3 Mio.
Torsion stress	± 270 °/m
Torsion speed	60 cycles/min