

## RJ45 male 0° / RJ45 male 0°, Gigabit

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

Art.No.: 7700-74718-S4W1000

Weight: 0.702 Country of origin: HU

Model designation: MSRAL0-RA-8p8cS4W\_10.0

Ethernet CAT5e

Male straight – male straight RJ45 – RJ45, 8-pole without cable sleeves Shielded

Protection cap

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

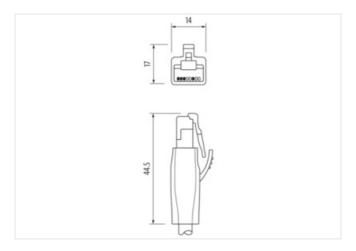
The resistance to aggressive media should be individually tested for your application. Further details on request.

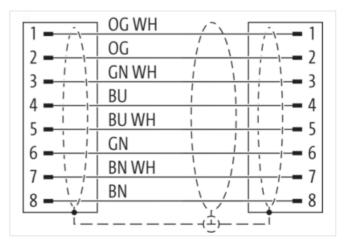
## **Link to Product**

## Illustration



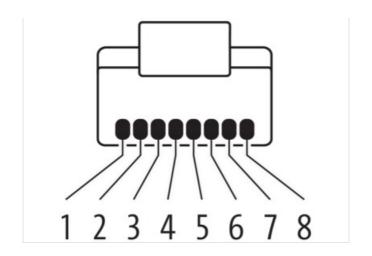


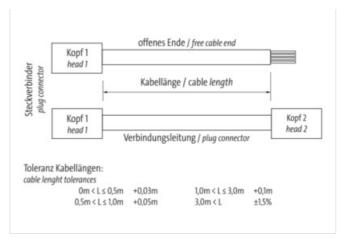


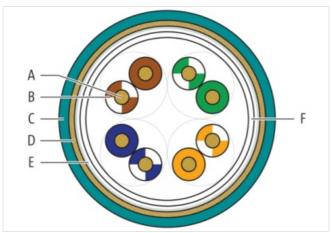


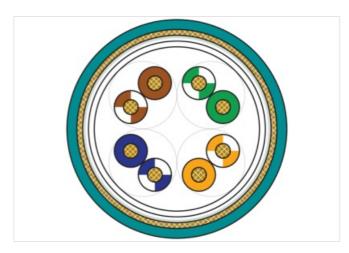


stay connected









Product may differ from Image











EtherNet/IP

Header	
Material short text	MSRAL0-RA-8p8cS4W_10.0
Cable length	10,00 m
Side 1	
Family construction form	RJ45
No. of poles	8
Gender	male
Mounting method	inserted, screwed
Cable outlet	straight
Side 2	
Family construction form	RJ45
No. of poles	8
Gender	male
Mounting method	inserted, screwed
Cable outlet	straight
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7700-74718-S4W1000
GTIN	4048879661232



stay connected

ECLASS-1		
ECLASS.7-0	ECLASS-6.0	27061801
ECLASS-7.1         2006307           ECLASS-8.0         27060307           ECLASS-8.1         27060307           ECLASS-9.1         27060307           ECLASS-9.1         27060307           ECLASS-9.1         27060307           ECLASS-10.0.1         27060307           ECLASS-11.0         27060307           ECLASS-11.0         27060307           ECLASS-12.0         27060307           ECLASS-13.0         27060307           ECLASS-14.0         27060307           ECLASS-14.0         27060307           ETM-5.0         E0002599           ETM-6.0         E0002599           ETM-7.0         E0002599           ETM-7.0         E0002599           ETM-7.0         E0002599           ETM-8.0         E0002599           ETM-8.1         40487361332           Packaging unit         1           Exercised data il Supply           Operating voltage DC max.         60 V           Current operating per contact max.         1,5 A           Industrial Communication         No           Data transmission rate max.         1,0 bits           Transfer parameters         CATS, Class D (SCNEC 11801-2002), (EN 50173-1)		
ECLASS 8 0 2706007 ECLASS 9.1 2706007 ECLASS 9.1 2706007 ECLASS 9.1 2706007 ECLASS 9.1 2706007 ECLASS 10.1 2706007 ECLASS 11.1 2706007 ECLASS 11.1 2706007 ECLASS 11.1 2706007 ECLASS 11.1 2706007 ECLASS 11.0 2706007 ECLAS 11.0		
ECLASS-8-1   27060007   ECLASS-9.0   27060007   ECLASS-9.1   27060007   ECLASS-9.1   27060007   ECLASS-9.0   27060007   ECLASS-9.0   27060007   ECLASS-9.0   27060007   ECLASS-9.1   27060007   ECLASS-9.1   27060007   ECLASS-9.1   27060007   ECLASS-9.1   27060007   ECLASS-9.1   27060007   ECLASS-9.1   27060007   ECLASS-9.0   27060007   ECLASS-9.0   27060007   ECLASS-9.0   27060007   ECLASS-9.0   27060007   ECLASS-9.0   27060007   ETM-5.0   ECO02599   ETM-7.0   ECO025		
ECLASS-9.0   27969907   2706907		
ECLASS-01   27960367   ECLASS-10.0.1   27960367   ECLASS-10.0.1   27960367   ECLASS-10.0.1   27960367   ECLASS-11.0   27960367   ECLASS-11.1   27960367   ECLASS-11.1   27960367   ECLASS-12.0   27960367   ECLASS-12.0   27960367   ECLASS-12.0   27960367   ECLASS-13.0   27960367   ECLASS-14.0   27960367   ECLASS-14.0   ECO02599   ETMA-5.0   ECO02599   ETMA-5.0   ECO02599   ETMA-7.0   ECO02599   ETMA-7.0   ECO02599   ETMA-7.0   ECO02599   ETMA-7.0   ECO02599   ETMA-7.0   ECO02599   ETMA-7.0   ECO02599   ETMA-8.0   ECO02599   ECTAS-1.0   ECO02599   ECTAS-1.0   ECO02599   ECTAS-1.0   ECO02599   ECTAS-1.0   ECO02599   ECTAS-1.0   ECO02599   E		
ECLASS-10.1   27060307		
ECLASS-10.1   27060307   ECLASS-11.0   27060307   ECLASS-11.1   27060307   ECLASS-12.0   27060307   ECLASS-12.0   27060307   ECLASS-12.0   27060307   ECLASS-13.0   27060307   ECLASS-14.0   27060307   ECLASS-14.0   27060307   ETM.5.0   ECO02599		
ECLASS-11.0         27663807           ECLASS-12.0         27663807           ECLASS-13.0         27603907           ECLASS-13.0         27603907           ETM-5.0         E0002599           ETM-6.0         EC002599           ETM-7.0         EC002599           ETM-7.0         EC002599           ETM-8.0         EC002599           ETM-8.0         EC002599           ETM-7.0         EC002599           ETM-8.0         EC002599           ETM-8.0         EC002599           ETM-7.0         EC002599           ETM-7.0         EC002599           ETM-8.0         EC002599           ETM-8.0         EC002599           ETM-8.0         EC002599           ETM-8.0         EC002599           ETM-8.0         4484870661232           Packaging unit         1           Electrical data   Suppty         Operating voltage DC max.           Gurrent operating per contact max.         1,5 A           Industrial Communication         Industrial Communication rate max.           Transfer parameters         CAT5, Class D ((SO/IEC 11801-2002), (EN 50173-1)           Diagnosatics         Status indication LED           Status indi		
ECLASS 11.1         27060307           ECLASS 12.0         27060307           ECLASS 13.0         27060307           ECLASS 14.0         27060307           ECLASS 14.0         27060307           ETIM-6.0         EC002599           ETIM-6.0         EC002599           ETIM-7.0         EC0002599           ETIM-8.0         EC002599           oustoms tariff number         85444210           EAN         4048879661232           Packaging unit         1           Electrical data   Supply           Operating voltage DC max.         60 V           Current operating per contact max.         1.5 A           Industrial Communication         Data transmission rate max.         1 Gbits           Transfer parameters         CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)           Diagnostics         Status indication I, Epitarian           Degree of protection   Electrical         Insulation   Private assignment           Configuration         fully used           Device protection   Electrical         Private protection   Electrical           Degree of protection   Electrical         Private protection   Electrical           Degree of protection   Electrical         Private   Electrical           Degree of prote		
ECLASS-13.0         27060307           ECLASS-14.0         27060307           ETM-5.0         E0002599           ETM-5.0         E0002599           ETM-7.0         E0002599           ETM-7.0         E0002599           ETM-8.0         E0002599           ETM-8.0         E0002599           Customs staff number         8544210           EAN         4048679661232           Packaging unk         1           Electrical data   Supply           Operaling voltage DC max.         60 V           Current operating per contact max.         1,5 A           Industrial Communication         Industrial Communication           Data transmission rate max.         1 Gbt/s           Transfer parameters         CATS, Class D ((SO/IEC 118012002), (EN 50173-1)           Diagnostics         Status indication LED           Status indication (ED         No           Installation   Pin assignment         Configuration           Configuration         fully used           Device protection (EN IEC 60529)         IP20           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1 kV		
ECLASS-14.0         27060307           ECLASS-14.0         27060307           ETIM-5.0         EC002599           ETIM-6.0         EC002599           ETIM-7.0         EC002599           ETIM-8.0         EC002599           CUSTOM Starff number         85444210           EAN         404887961232           Packaging unit         1           Electrical data   Supply         Operating voltage DC max.           Operating voltage DC max.         60 V           Current operating per contact max.         1.5 A           Industrial Communication         ATS A           Data transmission rate max.         1 Gbr/s           Transfer parameters         CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)           Diagnostics         Status indication LED           Status indication (EN IEC 60529)         No           Installation   Pin assignment         Configuration           Degree of protection   Electrical         Degree of protection   Electrical           Degree of protection (EN IEC 60529)         IP20           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Retained data         Controur for corrugated hose         without		
ECLASS-14.0         27060307           ETM-5.0         EC002599           ETM-6.0         EC002599           ETM-7.0         EC002598           ETM-7.0         EC002598           customs tariff number         85444210           EAN         4048879661232           Packaging unit         1           Electrical data   Supply           Operating voltage DC max.         60 V           Current operating per contact max.         1,5 A           Industrial Communication         Industrial Communication           Data transmission rate max.         1 Gbit/s           Transfer parameters         CATS, Class D (ISO/IEC 11801-2002), (EN 50173-1)           Diagnostics         Status indication LED           Status indication LED         No           Installation (Pin assignment           Configuration         fully used           Device protection (EN IEC 60529)           Device protection (EN IEC 60529)         IP20           Additional condition protection degree         inserted, sorewed           Follution Degree         3           Rated surge voitage         1 kV           Material group (IEC 60664-1)         1           Mechanical data		
ETIM-5.0         EC002599           ETIM-6.0         EC002599           ETIM-7.0         EC002599           ETIM-8.0         EC002599           Customs tariff number         85444210           EAN         404897961232           Packaging unit         1           Electrical data   Supply         Operating voltage DC max.           Operating voltage DC max.         60 V           Current operating per contact max.         1,5 A           Industrial Communication         Data transmission rate max.         1 Gbit/s           Transfer parameters         CA15, Class D (ISO/IEC 11801:2002), (EN 50173-1)         Operating target markets           Status indication LED         No         Installation   Pin assignment           Configuration         fully used         Device protection   Electrical           Degree of protection (EN IEC 60529)         IP20           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Alaterial group (IEC 60664-1)         I           Mechanical data         Whotal Mechanical data           Contour for corrugated hose         without           Mechanical data   Munting data           Locking material         PA           Mech		
ETIM-6.0         EC002599           ETIM-7.0         EC002599           CUstoms tariff number         85444210           EAN         4048879661332           Packaging unit         1           Electrical data   Supply           Operating voltage DC max.         60 V           Current operating per contact max.         1,5 A           Industrial Communication           Data transmission rate max.         1 Gbib's           Transfer parameters         CA15, Class D (ISO/IEC 11801:2002), (EN 50173-1)           Diagnostics           Status indication LED         No           Installation IPIn assignment           Configuration         fully used           Degree of protection [EN IECE 60529)         IP20           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge violage         1 k.V           Material prouje (IEC 60664-1)         1           Mechanical data           Mechanical data   Material data           Mechanical data   Material data           Mechanical data		
ETIM-7.0         EC002599           ETIM-8.0         EC002599           Customs tarif number         8544210           EAN         4048879661232           Packaging unit         1           Electrical data   Supply         1           Operating voltage DC max         60 V           Current operating per contact max.         1,5 A           Industrial Communication         1           Data transmission rate max.         1 Gbit/s           Transfer parameters         CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)           Diagnostics         Status indication LED           Status indication   Pin assignment         1           Configuration         fully used           Degree of protection [Electrical         1           Degree of protection (Electrical         1           Degree of protection (Electrical         1           Begree of protection (Electrical Surgeronal Surgero	-	
ETIM-8-0   EC002599		
customs tariff number 85444210 EAN 4048879661232 Packaging unit 1  Electrical data   Supply Operating voltage DC max. 60 V Current operating per contact max. 1,5 A  Industrial Communication Data transmission rate max. 1 Gbit/s Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Diagnostics Status indication LED No Installation   Pin assignment Configuration Degree of protection   Electrical Degree of protection (EN IEC 60529) IP20 Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 1 kV Material group (IEC 60564-1) I  Mechanical data Material housing PUR Color housing black Locking material   Mounting data Locking material   Mounting data Locking material   Mounting data Locking material   Mounting data Locking techniques Snap-in connector  Environmental characteristics   Climatic Operating temperature max. 85 °C Operating temperature max. 85 °C Operating temperature max. 85 °C Additional condition temperature max. 85 °C Operating temperature max. 85 °C Operating temperature max. 85 °C Additional condition temperature and process of the control of the c		
EAN 4048879661232 Packaging unit 1  Electrical data   Supply   Operating voltage DC max. 660 V Current operating per contact max. 1,5 A  Industrial Communication Data transmission rate max. 1 Gbit's Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Diagnostics  Status indication LED No Installation   Pin assignment  Configuration fully used  Device protection   Electrical  Degree of protection (EN IEC 60529) IP20  Additional condition protection degree inserted, screwed  Pollution Degree 3 A  Rated surge voltage 1 kV  Material group (IEC 80864-1) I  Mechanical data   Material data  Material housing PUR  Color nousing black  Locking material   Mounting data  Locking material   Mounting data  Locking material   Mounting data  Locking temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature mane   depending on cable quality  Important installation notes		
Packaging unit 1  Electrical data   Supply   Operating voltage DC max. 60 V   Current operating per contact max. 1,5 A   Industrial Communication  Data transmission rate max. 1 Gbit/s Transfer parameters CATS, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Diagnostics  Status indication LED No Installation   Pin assignment   Configuration fully used  Device protection   Electrical   Degree of protection   Electrical   Degree of protection (EN IEC 60529) IP20   Additional condition protection degree inserted, screwed   Pollution Degree 3   Rated surge voltage 1 kV   Material group (IEC 80684-1) 1   Mechanical data   Material housing PUR   Cortour for corrupated hose without   Mechanical data   Material data   Material housing PUR   Color housing black   Locking material PA   Mechanical data   Mounting data   Locking techniques Snap-in connector   Environmental characteristics   Climatic   Operating temperature min25 °C   Operating temperature min25 °C   Additional condition temperature range   Important installation notes		
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Current operating per contact max. 1,5 A  Industrial Communication  Data transmission rate max. 1 Gbit/s  Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Diagnostics  Status indication LED No  Installation   Pin assignment  Configuration fully used  Device protection   Electrical  Degree of protection   Electrical  Degree of protection (EN IEC 60529) IP20  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 1 kV  Material group (IEC 60664-1) I  Mcchanical data  Contour for corrugated hose without  Mechanical data   Material data  Material housing PUR  Color housing black  Locking material PA  Mechanical data   Mounting data  Locking techniques Snap-in connector  Environmental characteristics   Climatic  Coperating temperature min25 °C  Operating temperature max. 85 °C  Additional condition notes	Electrical data   Supply	
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Data transmission rate max. 1 Gbit/s  Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Diagnostics  Status indication LED No  Installation   Pin assignment  Configuration fully used  Device protection   Electrical  Degree of protection (EN IEC 60529)   IP20  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1 kV  Material group (IEC 60684-1)   I  Mechanical data   Material data  Material housing PUR  Color housing black  Locking material PA  Mechanical data   Mounting data  Locking material   PA  Mechanical data   Mounting data  Locking techniques Snap-in connector  Environmental characteristics   Climatic  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Current operating per contact max.	1,5 A
Transfer parameters CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)  Diagnostics  Status indication LED No  Installation   Pin assignment  Configuration fully used  Device protection   Electrical  Degree of protection (EN IEC 60529)   IP20  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1 kV  Material group (IEC 60664-1)   I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Material housing PUR  Color housing black  Locking material PAA  Mechanical data   Mounting data  Looking techniques Snap-in connector  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Industrial Communication	
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Rated surge voltage 1 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Material housing PUR  Color housing black  Locking material PA  Mechanical data   Mounting data  Looking techniques Snap-in connector  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Additional condition protection degree	inserted, screwed
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Mechanical data Contour for corrugated hose without  Mechanical data   Material data  Material housing PUR Color housing black Locking material PA  Mechanical data   Mounting data  Looking techniques Snap-in connector  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes		1 kV
Contour for corrugated hose without  Mechanical data   Material data  Material housing PUR  Color housing black  Locking material PA  Mechanical data   Mounting data  Looking techniques Snap-in connector  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Material group (IEC 60664-1)	
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Color housing black  Locking material PA  Mechanical data   Mounting data  Looking techniques Snap-in connector  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Mechanical data   Material data	
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Locking material PA  Mechanical data   Mounting data  Looking techniques Snap-in connector  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Color housing	black
Looking techniques  Snap-in connector  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes		PA
Looking techniques  Snap-in connector  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Mechanical data   Mounting data	
Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes		Snap-in connector
Operating temperature min.  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes		
Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes		-25 °C
Additional condition temperature range depending on cable quality  Important installation notes		
Important installation notes		
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ormation in this Product-PDF has been compiled with the utmost care.		

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: 2025-12-05



## stay connected

Note on bending radius	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Installation   Cable	
Cable identification	S4W
Function cable	Data
Amount stranding	4
Stranding	2 wires stranded
Amount stranding (type 2)	1
Stranding (type 2)	4 stranding combinations stranded
Banding	Foil
Cable weigth	68 g/m
Material wire insulation	HDPE
Amount wires	8
Outer diameter insulation	1,17 mm
Outer diameter tolerance core insulation	± 0,05 mm
Ingredient freeness wire insulation	CFC-free, lead-free
Amount strands (wire)	7
Diameter of single wires	32 AWG
Conductor crosssection (wire)	24 AWG
Material conductor wire	copper stranded wire, tinned
Outer-diameter (jacket)	7,6 mm
Tolerance outer diameter (sheath)	±5%
Material jacket	TPE
Shore hardness jacket	80 ± 5 Shore A
Freedom from ingredients (jacket)	CFC-free, lead-free
Conductor resistance (wire)	76.4 Ω/km @ 20 °C
Nominal voltage AC max.	600 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	2 A
Min. operating temperature (static)	-40 °C
Max. operating temperature (static)	80 °C
Operating temperature min. (dynamic)	-40 °C
Operating temperature max. (dynamic)	80 °C
Storage temperature min.	-40 °C
Storage temperature max.	80 °C
Bending radius (fixed)	4 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	1 Mio. @ 25 °C
No. of torsion cycles	3 Mio. @ 25 °C
Torsion stress	270 °C