

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

FRNC/LS0H 4x2xAWG27 shielded gr UL 60m

Art.No.: 7000-74711-7786000

Weight: 2.805 Country of origin: HU

Model designation: MSRAL0-RA-8p8c778\_60.0

Ethernet CAT6A
Male straight – male straight
RJ45 – RJ45, 8-pole
shielded
without cable sleeves

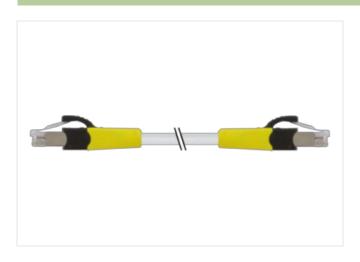
Further cable lengths on request.

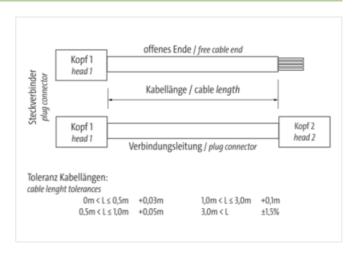
Plastic housings with good resistance against chemicals and oils.

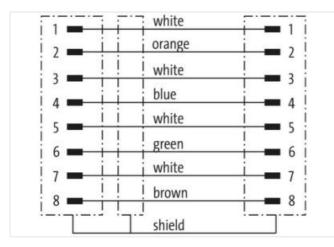
The resistance to aggressive media should be individually tested for your application. Further details on request.

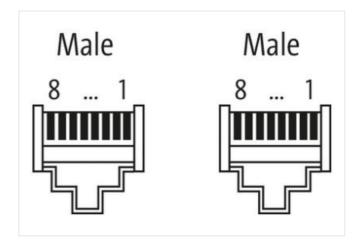
## **Link to Product**

## Illustration



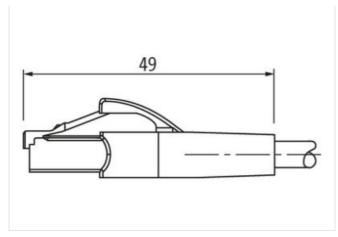








stay connected



Product may differ from Image











Mounting method   Inserted	Cable length	60 m
Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           Side 2           Mounting method         inserted           Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           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           ECLASS-10.1	Side 1	
Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           Side 2           Mounting method         inserted           Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-7.0         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-15.0         27060307           ECLASS-10.1         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         27060307           EAN         404887913795           EAN         404887913795           EAN         404887913795           EAN         404887913795 <td>Mounting method</td> <td>inserted</td>	Mounting method	inserted
Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           Side 2           Mounting method           Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           Commercial date           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           ECLASS-12.0         27060307           ECLASS-12.0         85444210           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1	Family construction form	RJ45
No. of poles         8           Degree of protection (EN IEC 60529)         IP20           Side 2           Mounting method         inserted           Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           Commercial data           ECLASS-6.0         27061801           ECLASS-6.1         27060307           ECLASS-6.1         27060307           ECLASS-8.0         27060307           ECLASS-9.0         27060307           ECLASS-10.1         27060307           ECLASS-11.1         27060307           ECLASS-12.0         27060307           ECLASS-12.1         27060307           ECLASS-12.0         <	Gender	male
Degree of protection (EN IEC 60529)         IP20           Side 2         Wounting method         inserted           Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           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           ECLASS-12.0         27060307           ECLASS-12.0         27060307           ECLASS-12.0         85444210           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1	Cable outlet	straight
Side 2           Mounting method         inserted           Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           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           ETIM-5.0         EC002599           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1	No. of poles	8
Mounting method         inserted           Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           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-10.2         27060307           ECLASS-12.0         27060307           ETIM-5.0         EC002599           customs tariff number         85444210           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1	Degree of protection (EN IEC 60529)	IP20
Family construction form         RJ45           Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           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           ETIM-5.0         EC002599           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1	Side 2	
Gender         male           Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           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           ETIM-5.0         EC002599           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1	Mounting method	inserted
Cable outlet         straight           No. of poles         8           Degree of protection (EN IEC 60529)         IP20           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           ETIM-5.0         EC002599           customs tariff number         85444210           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1	Family construction form	RJ45
No. of poles         8           Degree of protection (EN IEC 60529)         IP20           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           ETIM-5.0         EC002599           customs tariff number         85444210           Customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1	Gender	male
Degree of protection (EN IEC 60529)         IP20           Commercial data         ECLASS-6.0         27061801           ECLASS-6.1         27060307         ECLASS-7.0         27060307           ECLASS-8.0         27060307         ECLASS-9.0         ECLASS-9.0         27060307           ECLASS-9.0         27060307         ECLASS-10.1         27060307           ECLASS-11.1         27060307         ECLASS-12.0         ECLASS-12.0		straight
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           ETIM-5.0         EC002599           customs tariff number         85444210           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1		
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       85444210         customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1	Degree of protection (EN IEC 60529)	IP20
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       85444210         Customs tariff number       85444210         EAN       4048879713795         Packaging unit       1         Packaging unit       1	Commercial data	
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       85444210         customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1	ECLASS-6.0	27061801
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       85444210         customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1	ECLASS-6.1	27060307
ECLASS-9.0       27060307         ECLASS-10.1       27060307         ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC002599         customs tariff number       85444210         customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1	ECLASS-7.0	27060307
ECLASS-10.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC002599         customs tariff number       85444210         Customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1	ECLASS-8.0	27060307
ECLASS-11.1       27060307         ECLASS-12.0       27060307         ETIM-5.0       EC002599         customs tariff number       85444210         customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1	ECLASS-9.0	27060307
ECLASS-12.0       27060307         ETIM-5.0       EC002599         customs tariff number       85444210         customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1	ECLASS-10.1	27060307
ETIM-5.0         EC002599           customs tariff number         85444210           customs tariff number         85444210           EAN         4048879713795           EAN         4048879713795           Packaging unit         1           Packaging unit         1		27060307
customs tariff number       85444210         customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1		
customs tariff number       85444210         EAN       4048879713795         EAN       4048879713795         Packaging unit       1         Packaging unit       1		
EAN 4048879713795  EAN 4048879713795  Packaging unit 1  Packaging unit 1		85444210
EAN         4048879713795           Packaging unit         1           Packaging unit         1	customs tariff number	85444210
Packaging unit 1 Packaging unit 1	EAN	4048879713795
Packaging unit 1	EAN	4048879713795
	Packaging unit	1
Electrical data   Supply	Packaging unit	1
	Electrical data   Supply	



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Operating voltage DC max.	60 V
Operating voltage DC max. (UL-listed)	25 V
Current operating per contact max.	1,5 A
Industrial communication	
Transfer parameters	CAT6A
Data transmission rate max.	10 GBit/s
	10 CDIUS
Diagnostics	
Status indication LED	no
Device protection   Electrical	
Degree of protection (EN IEC 60529)	IP20
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	
	DUD
Material housing	PA PA
Locking material	ra
Mechanical data   Mounting data	
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	
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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
wire arrangement	
Cable identification	white, blue, white, orange, white, green, white, brown
Jacket Color	white, blue, white, orange, white, green, white, brown 778
Amount stranding	
u u. u. uy	778
Stranding	778 gray
	778 gray 4
Stranding	778 gray 4 2 wires twisted
Stranding Amount stranding (type 2)	778 gray 4 2 wires twisted 1
Stranding Amount stranding (type 2) Stranding (type 2)	gray 4 2 wires twisted 1 4 Stranded joints twisted
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type)	778 gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket)	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC 6 mm
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket) Tolerance outer diameter (sheath)	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC 6 mm ± 5 %
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC 6 mm ± 5 % FRNC
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC 6 mm ± 5 % FRNC 8
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Amount strands (wire)	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC 6 mm ± 5 % FRNC 8 7
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Amount strands (wire) Diameter of single wires	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC 6 mm ± 5 % FRNC 8 7 27 AWG
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Amount strands (wire) Diameter of single wires Conductor crosssection (wire)	gray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC 6 mm ± 5 % FRNC 8 7 27 AWG
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire	gray  4 2 wires twisted  1 4 Stranded joints twisted  copper braiding, bare white, blue, white, orange, white, green, white, brown  FRNC  6 mm ± 5 %  FRNC  8  7 27 AWG  Stranded copper wire, bare
Stranding Amount stranding (type 2) Stranding (type 2) Cable shielding (type) wire arrangement Material jacket Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire Min. operating temperature (static)	9ray 4 2 wires twisted 1 4 Stranded joints twisted copper braiding, bare white, blue, white, orange, white, green, white, brown FRNC 6 mm ± 5 % FRNC 8 7 27 AWG 27 AWG Stranded copper wire, bare -20 °C

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: 2025-06-05



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)	5 x Outer diameter