

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

PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 12m

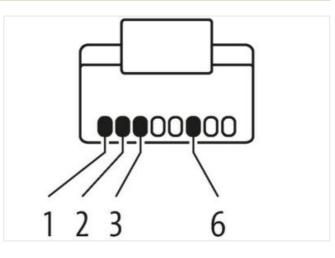
Art.No.: 7000-74301-7961200 Weight: 0.777 Country of origin: DE Model designation: MSRAL0-RA-8P4C796\_12.0

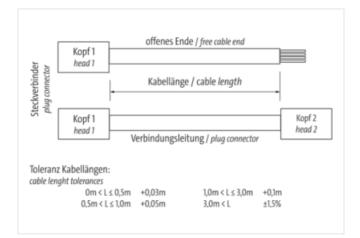
Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Male straight – male straight RJ45 – RJ45, 4-pole shielded Further cable lengths on request. Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

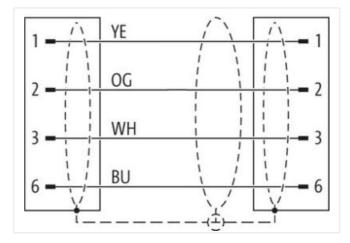
## Link to Product

Illustration



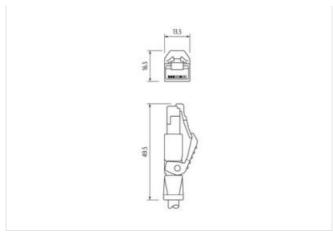






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-06-05





Product may differ from Image



Cable length	12 m
Side 1	
Mounting method	pluggable
Family construction form	RJ45
Gender	male
Cable outlet	straight
Material	PUR
No. of poles	4
Degree of protection (EN IEC 60529)	IP20
Side 2	
Mounting method	pluggable
Family construction form	RJ45
Gender	male
Cable outlet	straight
Material	PUR
No. of poles	4
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	4048879483131
EAN	4048879483131
Packaging unit	1

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



Packaging unit   1     Electrical data   Supply   0     Operating voltage DC max.   60 V     Current operating per contact max.   1,5 A     Industrial communication   Transfer parameters     Transfer parameters   CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)     Data transmission rate max.   100 MBit/s     Industrial communication   Ethernet functionality   Industrial communication   Ethernet functionality     duplex   Full duplex     Device protection   Electrical   Pollution Degree     Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   Contour for corrugated hose     Contour for corrugated hose   without     Mechanical data   Material group (IEC 60664-1)     Locking material   PA     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage			
Operating voltage DC max.   60 V     Current operating per contact max.   1,5 A     Industrial communication   Transfer parameters     CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)     Data transmission rate max.   100 MBit/s     Industrial communication   Ethernet functionality     duplex   Full duplex     Device protection   Electrical     Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   Konton     Contour for corrugated hose   without     Mechanical data   PA     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature max.   85 °C     Additional condition notes   Vote on strain relief     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable bie holding radii when laying cables, as the IP protection class or suitable measures from mechanical loads, e.g. by the usage of cable bie holds			
Current operating per contact max.   1,5 A     Industrial communication   Transfer parameters     CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)     Data transmission rate max.   100 MBit/s     Industrial communication   Ethernet functionality     duplex   Full duplex     Device protection   Electrical     Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   Contour for corrugated hose     Contour for corrugated hose   without     Mechanical data   Locking material     Doperating temperature min.   -25 °C     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition notes   Note on strain relief     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie holding radius protection relation class of cable the partial relation notes			
Industrial communication     Transfer parameters   CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)     Data transmission rate max.   100 MBit/s     Industrial communication   Ethernet functionality   100 MBit/s     Industrial communication   Ethernet functionality   100 MBit/s     Device protection   Electrical   Full duplex     Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   Contour for corrugated hose     Contour for corrugated hose   without     Mechanical data   Material data   Locking material     Locking material   PA     Environmental characteristics   Climatic   Operating temperature min.     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Note on strain relief     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie hore on backing radii when laying cables, as the IP protection class cables and in the partice context on the partice cables and in the partice context on the partice cables and in the partice context on the partice cables and in the partice cables and in the partice context on the partice cables and in the partice cable			
Transfer parameters   CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)     Data transmission rate max.   100 MBit/s     Industrial communication   Ethernet functionality   400 MBit/s     duplex   Full duplex     Device protection   Electrical   700 MBit/s     Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   700 MBit/s     Contour for corrugated hose   without     Mechanical data   700 MBit/s     Locking material   PA     Environmental characteristics   Climatic   700 Perating temperature min.     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   700 Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Protect the permissible bending radii when laying cables, as the IP protection class cables and in the protection class cables and in the permissible bending radii when laying cables, as the IP protection class cables and in the measures from mechanical loads, e.g. by the usage of cable tie			
Data transmission rate max.   100 MBit/s     Industrial communication   Ethernet functionality     duplex   Full duplex     Device protection   Electrical     Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   V     Contour for corrugated hose   without     Mechanical data   Material data   V     Locking material   PA     Environmental characteristics   Climatic   Operating temperature min.     -25 °C   Operating temperature max.     A5 °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 tie     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie			
Industrial communication   Ethernet functionality     duplex   Full duplex     Device protection   Electrical     Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   1     Contour for corrugated hose   without     Mechanical data   2     Locking material   PA     Environmental characteristics   Climatic   25 °C     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Protect the permissible bending radii when laying cables, as the IP protection class cables and the protection class cables and the permissible bending radii when laying cables, as the IP protection class cables and the permissible bending radii when laying cables, as the IP protection class cables and the permissible bending radii when laying cables, as the IP protection class cables and the permissible bending radii when laying cables, as the IP protection class cables and the permissible bending radii when laying cables, as the IP protection class cables and the permissible bending radii when laying cables, as the IP protection class cables and the permissible bending radii when laying c			
duplex   Full duplex     Device protection   Electrical   Image: Second Seco			
Device protection   Electrical     Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   1     Contour for corrugated hose   without     Mechanical data   Material data   2     Locking material   PA     Environmental characteristics   Climatic   2     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie			
Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   1     Contour for corrugated hose   without     Mechanical data   Material data   2     Locking material   PA     Environmental characteristics   Climatic   25 °C     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Attention: Observe the permissible bending radii when laying cables, as the IP protection class cables cable			
Pollution Degree   3     Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   1     Contour for corrugated hose   without     Mechanical data   Material data   2     Locking material   PA     Environmental characteristics   Climatic   25 °C     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Attention: Observe the permissible bending radii when laying cables, as the IP protection class cables cable			
Rated surge voltage   1 kV     Material group (IEC 60664-1)   1     Mechanical data   Important installation notes     Volta on bronding radius   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie			
Material group (IEC 60664-1)   I     Mechanical data   vithout     Contour for corrugated hose   without     Mechanical data   Material data   PA     Locking material   PA     Environmental characteristics   Climatic   Operating temperature min.     -25 °C   Operating temperature max.     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiele     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiele     Note on strain relief   Attention: Observe the permissible bending radii when laying cables, as the IP protection class cable cable tiele			
Mechanical data   without     Contour for corrugated hose   without     Mechanical data   Material data   PA     Locking material   PA     Environmental characteristics   Climatic   Operating temperature min.     -25 °C   Operating temperature max.     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiele     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiele     Nete on shording radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class call			
Contour for corrugated hose   without     Mechanical data   Material data   PA     Locking material   PA     Environmental characteristics   Climatic   Operating temperature min.     -25 °C   Operating temperature max.     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiele     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiele     Note on strain relief   Attention: Observe the permissible bending radii when laying cables, as the IP protection class cable			
Mechanical data   Material data     Locking material   PA     Environmental characteristics   Climatic     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on brading radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class call			
Locking material   PA     Environmental characteristics   Climatic     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiel     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tiel     Note on brading radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class call			
Environmental characteristics   Climatic     Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on brading radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class call			
Operating temperature min.   -25 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   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 strain relief   Attention: Observe the permissible bending radii when laying cables, as the IP protection class call			
Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality     Important installation notes   Mote on strain relief     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tier     Note on brading radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class call	Environmental characteristics   Climatic		
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 tie     Note on bonding radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class call			
Important installation notes     Note on strain relief   Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie     Note on bonding radius   Attention: Observe the permissible bending radii when laying cables, as the IP protection class ca			
Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable tie       Note on bonding radius     Attention: Observe the permissible bending radii when laying cables, as the IP protection class ca			
Note on bonding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class ca			
Note on bonding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection class ca	s		
Conformity			
Product standard according to IEC 60603-7 (RJ45)			
Installation   Cable			
wire arrangement white, yellow, blue, orange			
Cable identification 796			
Jacket Color green			
Type of Certificate cURus			
Amount stranding 1			
Stranding 4 wires around Core filler twisted			
Cable shielding (type) copper braid, tinned			
Cable shielding (coverage) 85 %			
Banding Fleece, Foil			
Filler yes			
wire arrangement white, yellow, blue, orange			
Cable weigth 69,3 g/m			
Material jacket PUR			
Shore hardness jacket 89 Shore A			
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free			
Outer-diameter (jacket) 6,7 mm			
Tolerance outer diameter (sheath) ± 5 %			
Material inner jacket FRNC			
Color (inner jacket) natural			
Material wire insulation PE			
Amount wires 4			
Outer diameter insulation 1,4 mm			

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



Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	65 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	7
Diameter of single wires	22 AWG
Conductor crosssection (wire)	22 AWG
Material conductor wire	Stranded copper wire, bare
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Characteristic impedance	100 Ω ± 15 % @ 100 MHz
Electrical resistance line constant wire	55 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	50000 pF/km
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 kV @ 60 s
Isolation resistance	5000 MΩ × km
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	℃ 08
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
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)	5 x Outer diameter
Bending radius (dynamic)	12 x Outer diameter
No. of bending cycles (C-track)	3 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m

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