

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

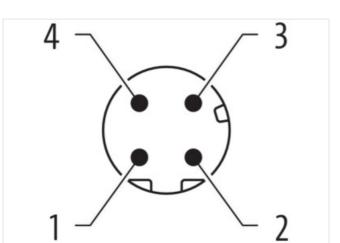
PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 5m

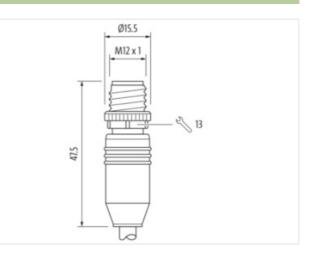
Art.No.: 7000-44511-7960500 Weight: 0.376 Country of origin: HU Model designation: MSDAL0-DA-T796\_5.0-ZS

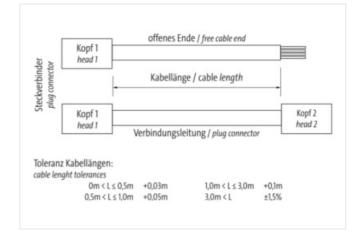
## Link to Product

Illustration



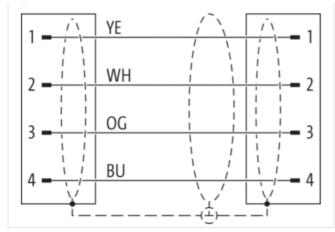






The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-08-05





Product may differ from Image



Ether CAT.

EtherNet/IP

Side 1	
Family construction form M12	
No. of poles 4	
Coding D	
Gender male	
Mounting method inserted, screwed	
Thread M12 x 1	
Tightening torque 0.6 Nm	
Width across flats SW13	
Cable outlet straight	
Material PUR	
Material contact Copper alloy	
Coating contact gold plated	
Degree of protection (EN IEC 60529) IP67, IP66K, IP65	
Side 2	
Family construction form M12	
No. of poles 4	
Coding D	
Gender male	
Mounting method inserted, screwed	
Thread M12 x 1	
Tightening torque 0.6 Nm	
Width across flats SW13	
Cable outlet straight	
Material PUR	
Material contact Copper alloy	
Coating contact gold plated	
Degree of protection (EN IEC 60529) IP67, IP66K, IP65	
Commercial data	

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URL Webshop

https://shop.murrelektronik.com/7000-44511-7960500

ECLASS-6.0     27061801       ECLASS-7.0     27069307       ECLASS-7.0     27069307       ECLASS-7.1     27069307       ECLASS-7.1     27069307       ECLASS-8.0     27069307       ECLASS-8.1     27069307       ECLASS-8.0     27069307       ECLASS-9.0     27069307       ECLASS-9.1     27069307       ECLASS-1.1     27069307       ECLASS-1.1     27069307       ECLASS-1.1     27069307       ECLASS-1.1     27069307       ECLASS-1.1     27069307       ECLASS-1.2.0     27069307       ECLASS-1.3.0     27069307       ECLASS-1.4.0     27069307       ECLASS-1.0     27069307       ECLASS-1.0     27069307       ECLASS-1.0     27069307       ECLASS-1.0     27069307       ECLASS-1.0     27069307       ECLASS-1.0     EC002599       ETIM-5.0     EC002599       ETIM-5.0     EC002599       ETIM-5.0     EC002599       EAN     4048879141307		
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EAN     4048879141307       EAN     4048879141307       Packaging unit     1       Packaging unit     1       Electrical data   Supply     Electrical data   Supply       Operating voltage DC max.     60 V       Current operating per contact max.     1.5 A       Industrial communication     Electrical data   Supply       Data transmission rate max.     100 MBit/s       Transfer parameters     CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)       Industrial communication   Ethernet functionality     Electrical data       duplex     Full duplex       Degree of protection   Electrical     Electrical data       Degree of protection (EN IEC 60529)     IP67, IP66K, IP65       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1.5 KV       Material group (IEC 60664-1)     I       Mechanical data     Elocuterical data       Contour for corurgated hose     without       Material screw connection     Zinc die-casting       Coating of fitting     rikel palated       Eviconmental characteristics   Climati	customs tariff number	85444290
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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.   100 MBit/s     Transfer parameters   CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)     Industrial communication   Ethernet functionality   Iduplex     Device protection   Electrical   Electrical     Degree of protection (EN IEC 60529)   IP67, IP66K, IP65     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1.5 kV     Material group (IEC 60664-1)   1     Mechanical data   Material data     Contour for corrugated hose   without     Meterial screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   Uperating temperature main.     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	EAN	4048879141307
Electrical data   Supply       Operating voltage DC max.     60 V       Current operating per contact max.     1.5 A       Industrial communication     Uon MBit/s       Transfer parameters     CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)       Industrial communication   Ethernet functions     Uind uplex       Device protection   Electrical     Uind uplex       Degree of protection (EN IEC 60529)     IP67, IP66K, IP65       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1.5 kV       Material group (IEC 60664-1)     I       Mechanical data     Material data       Material group on (EC 60664-1)     Inc die-casting       Contour for corrugated hose     without       Material group (IEC 60664-1)     Inc die-casting       Contour for corrugated hose     without       Material group (IEC 60664-1)     Inc die-casting       Contarig of fitting     nickle plated       Material data     Material data       Degree on pondetion     Sinc die-casting       Coating of fitting     nickle plated       Deprating temp	Packaging unit	1
Operating voltage DC max.     60 V       Current operating per contact max.     1.5 A       Industrial communication     Intervent operating per contact max.       Data transmission rate max.     100 MBit/s       Transfer parameters     CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)       Industrial communication   Ethernet funct// Ethernet f	Packaging unit	1
Operating voltage DC max.     60 V       Current operating per contact max.     1.5 A       Industrial communication     Intervent operating per contact max.       Data transmission rate max.     100 MBit/s       Transfer parameters     CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)       Industrial communication   Ethernet funct// Ethernet f	Electrical data   Supply	
Current operating per contact max.   1.5 A     Industrial communication     Data transmission rate max.   100 MBit/s     Transfer parameters   CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)     Industrial communication   Ethernet functionality     duplex   Full duplex     Device protection   Electrical     Degree of protection (EN IEC 60529)   IP67, IP66K, IP65     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1.5 kV     Material group (IEC 60664-1)   I     Mechanical data   Material data     Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	Operating voltage DC max.	60 V
Industrial communication       Data transmission rate max.     100 MBit/s       Transfer parameters     CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)       Industrial communication   Ethernet lummunication   Ethernet lummunicatio		
Data transmission rate max.     100 MBit/s       Transfer parameters     CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)       Industrial communication   Ethernet functionality     Full duplex       Device protection   Electrical     Full duplex       Degree of protection (EN IEC 60529)     IP67, IP66K, IP65       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rater surge voltage     1.5 kV       Material group (IEC 60664-1)     I       Contour for corrugated hose     without       Material screw connection     Zinc die-casting       Coating of fitting     nickel plated       Degrea of fitting     > 30 °C       Operating temperature min.     -30 °C       Operating temperature range     depending on cable quality		
Transfer parameters   CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)     Industrial communication   Ethernet funct/		
Industrial communication   Ethernet functionality       duplex     Full duplex       Device protection   Electrical        Degree of protection (EN IEC 60529)     IP67, IP66K, IP65       Additional condition protection degree     inserted, screwed       Pollution Degree     3       Rated surge voltage     1.5 kV       Material group (IEC 60664-1)     1       Mechanical data     vithout       Mechanical data     vithout       Meterial screw connection     Zinc die-casting       Coating of fitting     nickel plated       Polerating temperature min.     -30 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality		
duplex     Full duplex       Device protection   Electrical        Degree of protection (EN IEC 60529)     IP67, IP66K, IP65       Additional condition protection degree     inserted, screwed       Additional condition protection degree     3       Rated surge voltage     1.5 kV       Material group (IEC 60664-1)     1       Mechanical data     instred       Mechanical data     without       Mechanical data   Material data     instred       Material screw connection     Zin cdie-casting       Coating of fitting     nickel plated       Degreating temperature min.     -30 °C       Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)
Device protection   Electrical     Degree of protection (EN IEC 60529)   IP67, IP66K, IP65     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1.5 kV     Material group (IEC 60664-1)   I     Mechanical data   I     Contour for corrugated hose   without     Meterial screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	Industrial communication   Ethernet fur	ctionality
Degree of protection (EN IEC 60529)   IP67, IP66K, IP65     Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1.5 kV     Material group (IEC 60664-1)   I     Mechanical data   vithout     Contour for corrugated hose   without     Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature min.   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	duplex	Full duplex
Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1.5 kV     Material group (IEC 60664-1)   I     Mechanical data   vithout     Contour for corrugated hose   without     Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature min.   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	Device protection   Electrical	
Additional condition protection degree   inserted, screwed     Pollution Degree   3     Rated surge voltage   1.5 kV     Material group (IEC 60664-1)   I     Mechanical data   vithout     Contour for corrugated hose   without     Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature min.   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	Degree of protection (EN IEC 60529)	IP67. IP66K. IP65
Pollution Degree   3     Rated surge voltage   1.5 kV     Material group (IEC 60664-1)   I     Mechanical data   I     Contour for corrugated hose   without     Mechanical data   Material data   V     Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature min.   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	<b>5</b>	
Rated surge voltage   1.5 kV     Material group (IEC 60664-1)   I     Mechanical data   vithout     Contour for corrugated hose   without     Material data   Material data   Vithout     Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality		
Material group (IEC 60664-1)   I     Mechanical data   without     Contour for corrugated hose   without     Mechanical data   Material data   I     Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality		
Mechanical data   without     Contour for corrugated hose   without     Mechanical data   Material data   Image: Contour for corrugated hose     Mechanical data   Material data   Image: Contour for corrugated hose     Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   Image: Contour for corrugated hose     Operating temperature min.   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality		
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Material screw connection   Zinc die-casting     Coating of fitting   nickel plated     Environmental characteristics   Climatic   -30 °C     Operating temperature max.   85 °C     Additional condition temperature range   depending on cable quality	-	
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Operating temperature min30 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality		· · · · · · · · · · · · · · · · · · ·
Operating temperature max. 85 °C   Additional condition temperature range depending on cable quality		
Additional condition temperature range depending on cable quality		

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Important installation notes



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.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	796
Amount stranding	1
Stranding	4 wires stranded
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 wire insulation	PE
Amount wires	4
Outer diameter insulation	1.4 mm
Duter diameter tolerance core insulation	± 0.05 mm
Shore hardness wire insulation	65 ± 2 Shore D
ngredient freeness wire insulation	CFC-free, halogen-free, lead-free
Amount strands (wire)	7
Diameter of single wires	30 AWG
Conductor crosssection (wire)	22 AWG
Material conductor wire	Stranded copper wire, bare
Duter-diameter (jacket)	6.7 mm
Folerance outer diameter (sheath)	±5%
Material jacket	PUR
Shore hardness jacket	89 ± 2 Shore D
reedom from ingredients (jacket)	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Material property (jacket)	matte, good machinability, abrasion-resistant, low adhesion
Material inner jacket	FRNC
Color (inner jacket)	natural
Conductor resistance (wire)	55 Ω/km @ 20 °C
Electrical capacity line constant (wire - wire)	50,000 pF/km
solation resistance	5,000 MΩ × km
Nominal voltage AC max.	300 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Withstand voltage (wire - shield)	2 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4.8 A
Characteristic impedance	100 $\Omega$ ± 15 %
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 9999 h Operation
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Operating temperature min. (drag chain)	-30 °C
Operating temperature max. (drag chain)	70 °C
Flame resistance	UL 1581 § 1090, UL 1581 § 1100, IEC 60332-1-2
Dil resistance	IEC 60811-404, IRM 901

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UV resistance	UL 1581§1200	
Other resistances	resistant to hydrolysis, resistant to microbes, MUD-resistant (NEK 606)	
Bending radius (fixed)	5 × Outer diameter	
Bending radius (dynamic)	12 × 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	
Acceleration (C-track)	2 m/s² @ 25 °C	
No. of torsion cycles	1 Mio. @ 25 °C	
Torsion stress	180 °/m	
Torsion speed	35 cycles/min	

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