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

TPE 2x2x24AWG SF/UTP CAT5e bu UL/CSA. CM 5m

Art.No.: 7700-44511-S4U0500
Weight: 0.282 kg
Country of origin: US
Model designation: MSDAL0-DA-TS4U_5.0-ZS

Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

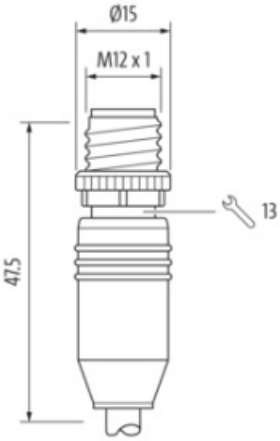
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

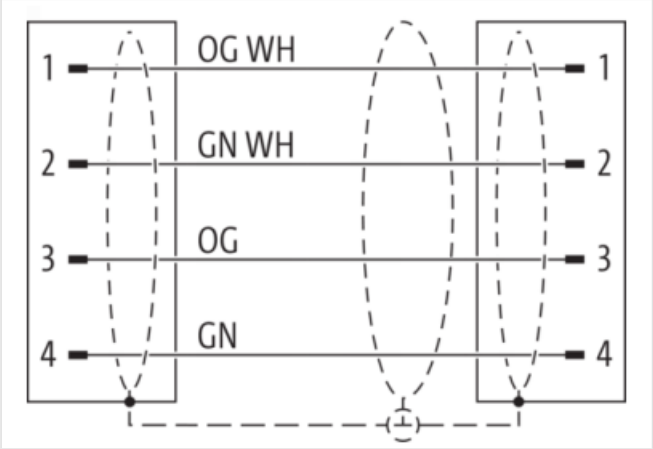
Product details:

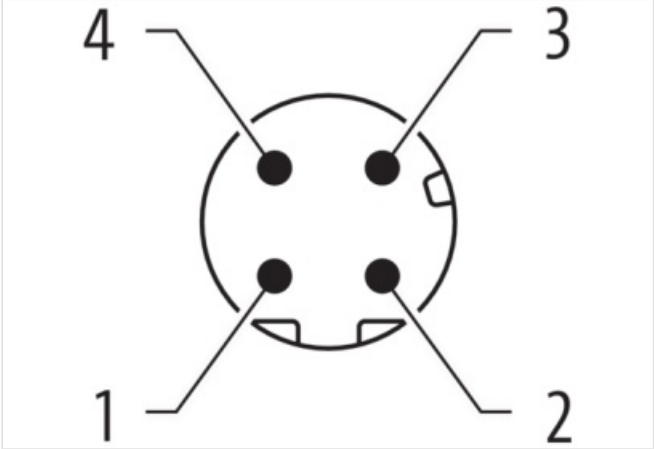
USA
Ethernet CAT5
Male straight – male straight
M12 – M12, 4-pole
D-coded
Shielded
without cable sleeves
maximum length at channel transmission corresponds to 70 m
Further cable lengths on request.
Plastic housings with good resistance against chemicals and oils.
The resistance to aggressive media should be individually tested for your application. Further details on request.

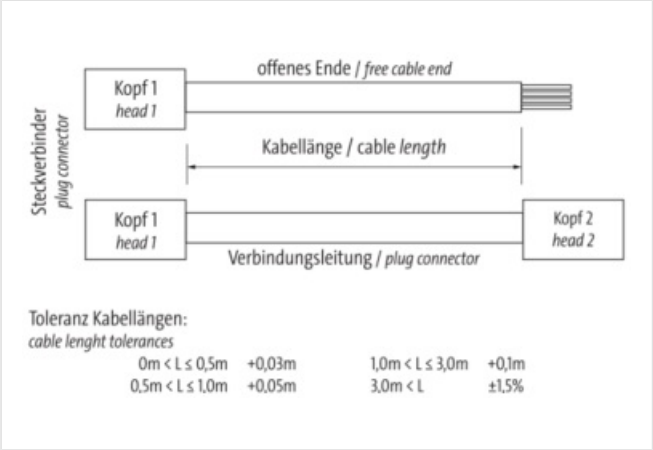
Link to Product

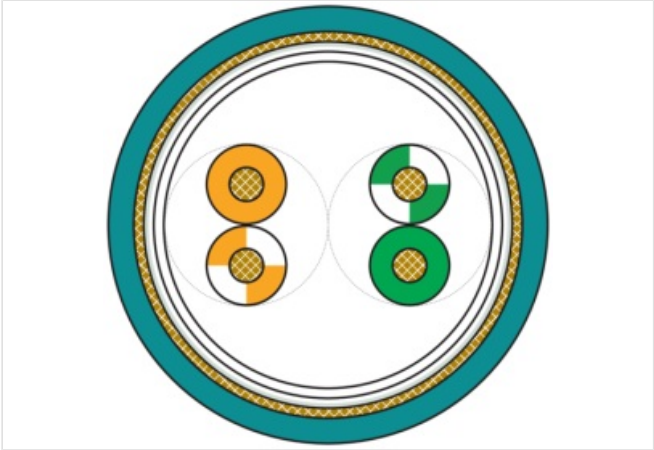
Illustration

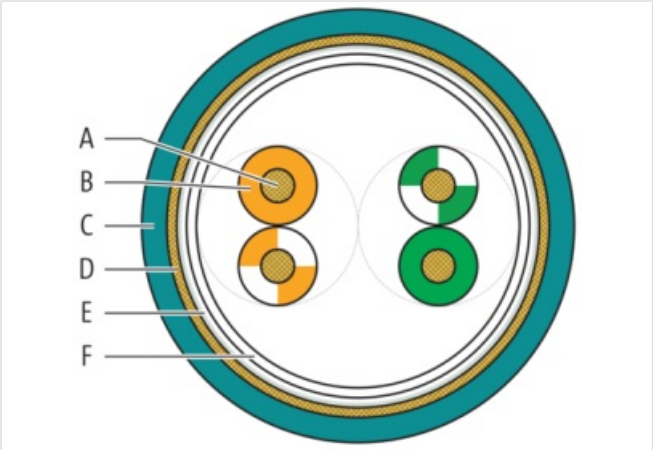












Product may differ from Image

Header	
Material short text	MSDAL0-DA-TS4U_5.0-ZS
Cable length	5,00 m

MURR ELEKTRONIK
stay connected

Side 1	
Family construction form	M12
No. of poles	4
Coding	D
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Side 2	
Family construction form	M12
No. of poles	4
Coding	D
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7700-44511-S4U0500
GTIN	4048879605861
ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-7.1	27060307
ECLASS-8.0	27060307
ECLASS-8.1	27060307
ECLASS-9.0	27060307
ECLASS-9.1	27060307
ECLASS-10.0.1	27060307
ECLASS-10.1	27060307
ECLASS-11.0	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ECLASS-13.0	27060307
ECLASS-14.0	27060307
ETIM-5.0	EC002599
ETIM-6.0	EC002599
ETIM-7.0	EC002599
ETIM-8.0	EC002599
customs tariff number	85444290
EAN	4048879605861
Packaging unit	1
Electrical data | Supply	
Operating voltage DC max.	60 V
Current operating per contact max.	1,5 A
Current operating per contact (UL)	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

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Diagnostics	
Status indication LED	No
Installation | Connection	
Gender	male
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	
Contour for corrugated hose	without
Mechanical data | Material data	
Material housing	PUR
Locking material	Zinc die-casting
Coating locking	Nickeled
Mechanical data | Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics | Climatic	
Operating temperature min.	-30 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
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	EN IEC 61076-2-101 (M12)
Installation | Cable	
Cable identification	S4U
Function cable	Data
Amount stranding	2
Stranding	2 wires stranded
Amount stranding (type 2)	1
Stranding (type 2)	2 stranding combinations stranded
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	75 %
Banding	Foil
Cable weigth	50,6 g/m
Material wire insulation	HDPE
Amount wires	4
Outer diameter insulation	1,22 mm
Outer diameter tolerance core insulation	± 0,05 mm
Ingredient freeness wire insulation	lead-free, CFC-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)	6,6 mm
Tolerance outer diameter (sheath)	± 5 %

Material jacket	TPE
Shore hardness jacket	80 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, CFC-free
Cable length max.	83 m
Conductor resistance (wire)	93.8 Ω/km @ 20 °C
Nominal voltage AC max.	600 V
Loop resistance	280 Ω/km
Withstand voltage (wire - wire)	1.5 kV @ 2 s
Withstand voltage (wire - jacket)	1.5 kV @ 2 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	2,4 A
Characteristic impedance	100 Ω ± 5 % @ 100 MHz
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
Oil resistance	good
UV resistance	UL 444 § 7.22
Other resistances	resistant to welding sparks
Bending radius (fixed)	8 × Outer diameter
Bending radius (dynamic)	8 × Outer diameter
No. of bending cycles (C-track)	35 Mio. @ 25 °C
Traversing distance (C-track)	0.6 m @ 25 °C
Travel speed (C-track)	1.2 m/s @ 25 °C
Acceleration (C-track)	2.4 m/s² @ 25 °C
No. of torsion cycles	3 Mio.
Torsion stress	± 270 °/m
Torsion speed	60 cycles/min