

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

TPE 22AWG SF/UTP CAT5e gn UL/CSA. ITC/PLTC 1m

Art.No.: 7700-44511-S7V0100

Weight: 0.098 kg

Country of origin: DE

Model designation: MSDAL0-DA-TS7V_1.0-ZS

USA

Ethernet CAT5

Male straight – male straight

M12 – M12, 4-pole

D-coded

Shielded

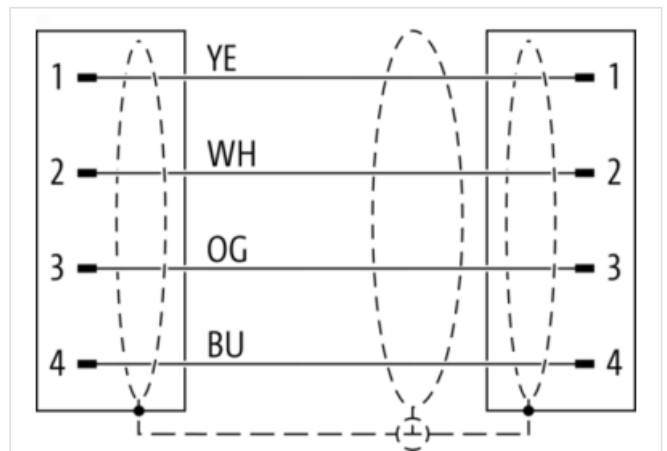
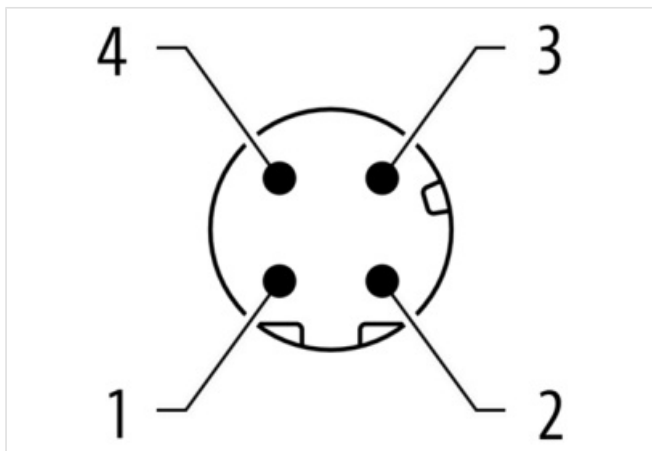
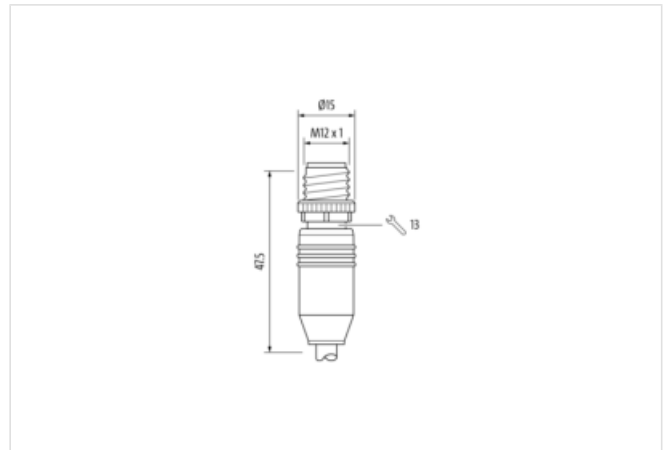
without cable sleeves

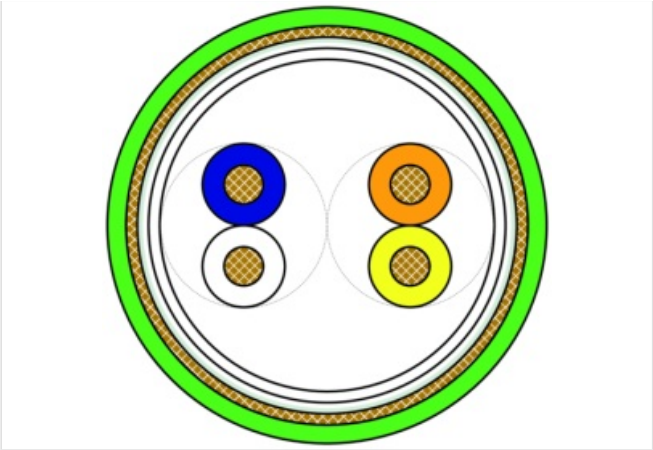
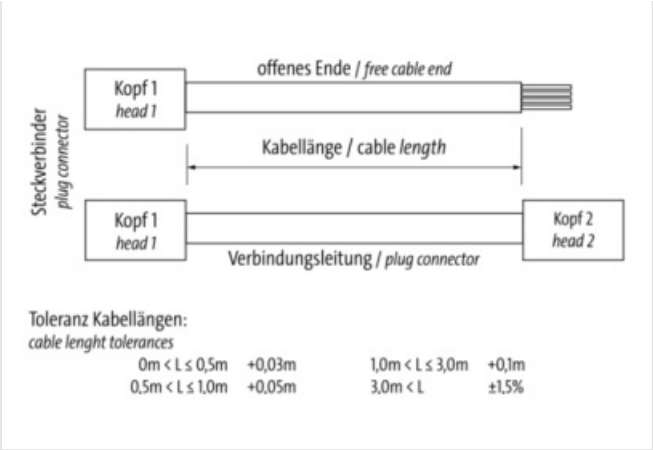
maximum length at channel transmission corresponds to 70 m

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.

Further cable lengths on request.

[Link to Product](#)**Illustration**



Product may differ from Image



Cable length	1,00 m
Side 1	
Family construction form	M12
No. of poles	4
Coding	D
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Family construction form	M12
No. of poles	4
Coding	D
Gender	male
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7700-44511-S7V0100
GTIN	4048879605960
EU-Customs tariff number	85444290
US-Customs tariff number	8544429090
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	4048879605960
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
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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
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Mechanical data | Material data

housing	PUR
Color housing	black
Screw connection	Zinc die-casting
Coating of fitting	nickel plated

Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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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)
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Installation | Cable

Stranding	2 × 2 wires stranded
Stranding (type 2)	1 × 2 stranding combinations stranded
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	75 %
Banding	Foil
Wire arrangement	(WH, BU), (OG, YE)
Shield	shielded
Material wire insulation	HDPE
Amount wires	4
Outer diameter insulation	1.47 mm ± 0.05 mm
Conductor crosssection (wire)	22 AWG
Material conductor wire	copper stranded wire, tinned
Core construction (wire)	19
Ingredient freeness wire insulation	lead-free, CFC-free
Material jacket	TPE
Outer-diameter (jacket)	7.87 mm ± 5 %
Jacket Color	green / RAL 6018
Freedom from ingredients (jacket)	lead-free, CFC-free
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	75 %
Conductor resistance (wire)	93.8 Ω/km @ 20 °C
Nominal voltage max.	600 V
Current load capacity max. (wire)	4,8 A
Current load capacity (standard)	to DIN VDE 0298-4
Cable type	Industrial Ethernet Profinet Typ C, CAT5e
Operating temperature (static)	-40 °C ... 80 °C
Operating temperature (dynamic)	-40 °C ... 80 °C
Oil resistance	UL 1277 (Oil Res II)
UV resistance	UL 444 § 7.22
Other resistances	resistant to welding sparks
Notes	application-related testing
Bending radius (fixed)	8 × Outer diameter
Bending radius (dynamic)	8 × Outer diameter
No. of bending cycles (C-track)	35 Mio. @ 25 °C
No. of torsion cycles	5 Mio.
Torsion stress	± 180 °/m