M23 female 0° with cable

PUR 16x0.5+3x1.0 gy UL/CSA+drag ch. 10m

Art.No.: 7000-23251-4521000
Weight: 2,114 kg
Country of origin: DE
Model designation: MS23SNBD19-000_452_10.0

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

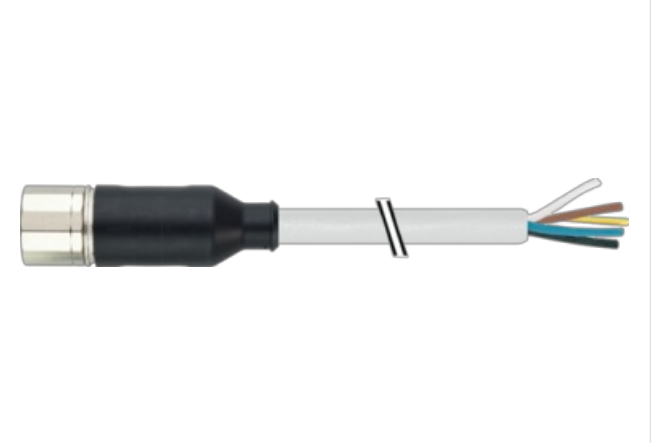
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

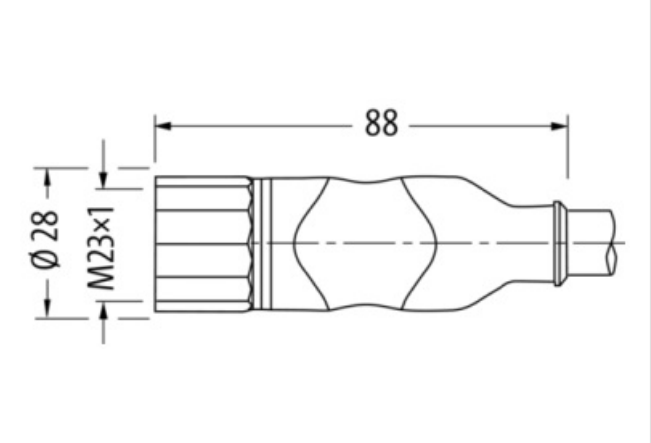
Product details:

Female straight
M23, 19-pole
19-pole used
for 8-way distribution boxes, 5-pole
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.
7.5 A (1.0 mm²); 3.5 A (0.5 mm²)

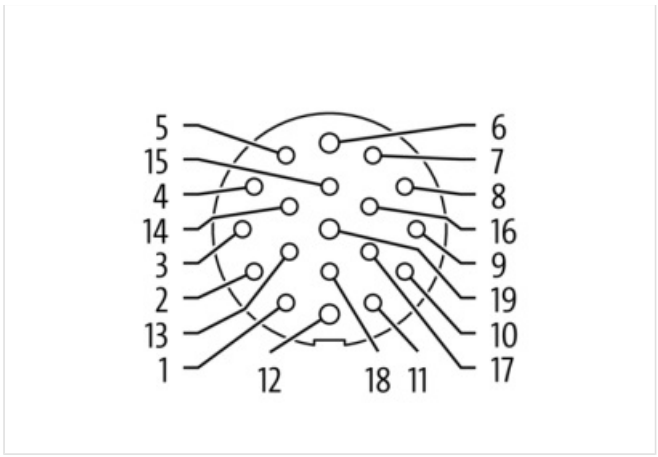
Link to Product

Illustration

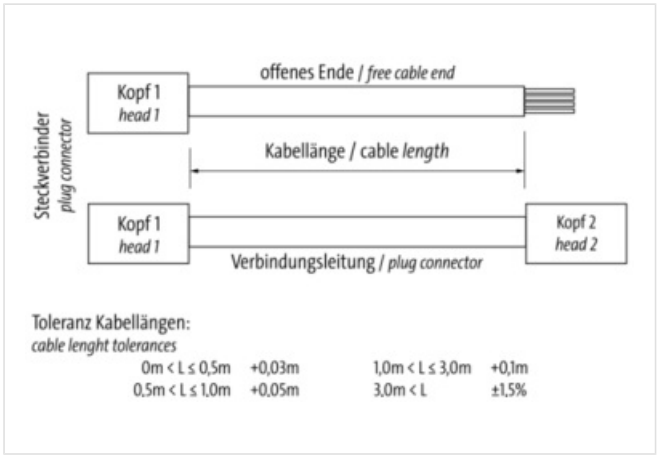


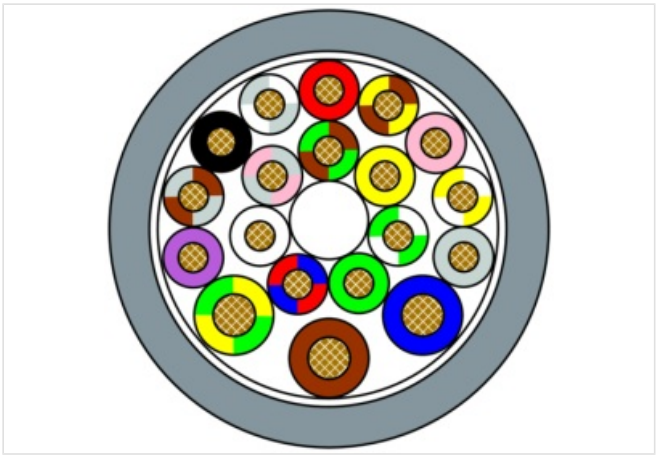


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Product may differ from Image

Cable length	10,00 m
Side 1-1	
Family construction form	M23
No. of poles	19
Mounting method	inserted, screwed
Threaded hole	M23 x 1
Tightening torque	2 Nm
Width across flats	SW27
Cable outlet	straight
suitable for corrugated tube (internal Ø)	16 mm
Material	PUR
Degree of protection (EN IEC 60529)	IP67, IP65
Side 2-2	
Family construction form	free cable end
Commercial data	
URL Webshop	https://shop.murrelektronik.com/7000-23251-4521000
GTIN	4048879188012

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EU-Customs tariff number	85444290
US-Customs tariff number	8544429090
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.1	27279218
ECLASS-8.0	27279218
ECLASS-8.1	27279218
ECLASS-9.0	27060311
ECLASS-9.1	27060311
ECLASS-10.0.1	27060311
ECLASS-10.1	27060311
ECLASS-11.0	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311
ECLASS-14.0	27060311
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
ETIM-9.0	EC001855
ETIM-10.0	EC001855
customs tariff number	85444290
EAN	4048879188012
Packaging unit	1
Electrical data | Supply	
Operating voltage AC max.	48 V
Operating voltage DC max.	60 V
Current operating per contact max.	7.5 A
Diagnostics	
Status indication LED	No
Installation | Connection	
Gender	female
Mounting set	M23 x 1
Device protection | Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	2 kV
Material group (IEC 60664-1)	I
Mechanical data | Material data	
Screw connection	Brass
Coating of fitting	nickel plated
Locking material	Brass
Coating locking	nickel plated
Mechanical data | Mounting data	
Mounting method	inserted, screwed
Environmental characteristics | Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
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.
Installation | Cable-1	
Cable identification	452
Cable Type	3
Function cable	Hybrid, Signal, Power
Cable weigth	201.1 g/m
UL AWM Style	20549 / 10493
Stranding	1 × 7 wires around core filler twisted
Stranding factor min.	80 mm
Stranding factor max.	80 mm
Stranding (type 2)	1 × 12 wires stranded in opposite direction around stranding combination
Stranding factor min. (type 2)	140 mm
Stranding factor max. (type 2)	140 mm
Banding	Fleece
Filler	Yes
Wire arrangement	(GYPK, BNGN, YE, GNWH, GN, RDBU, WH), BNGY, BK, GYWH, RD, BNYE, PK, YEWH, GY, BU, BN, GNYE, VT
Electrical function wire	Signal
Material wire insulation	PP
Amount wires	16
Outer diameter insulation	1.6 mm ± 0.1 mm
Conductor crosssection (wire)	0.5 mm²
Material conductor wire	Stranded copper wire, bare
Core construction (wire)	64 × 0.1 mm
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, LABS-free, silicone-free
Electrical function wire (type 2)	Power
Material wire insulation (type 2)	PP
Amount wires (type 2)	3
Outer diameter wire insulation (type 2)	2.1 mm ± 0.1 mm
Conductor crosssection (wire type 2)	1 mm²
Material conductor wire (type 2)	Stranded copper wire, bare
Core construction (wire type 2)	128 × 0.1 mm
Ingredient freeness wire insulation (type 2)	lead-free, cadmium-free, CFC-free, halogen-free, LABS-free, silicone-free
Material jacket	PUR
Outer-diameter (jacket)	11.5 mm ± 5 %
Jacket Color	gray / RAL 7040
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, LABS-free, silicone-free
Material property (jacket)	abrasion-resistant, low adhesion, good machinability, matte
Conductor resistance (wire)	39 Ω/km @ 20 °C
Conductor resistance (wire type 2)	19.5 Ω/km @ 20 °C
Max. rated voltage (conductor - ground)	300 V
Max. rated voltage (conductor - conductor)	500 V
Withstand voltage (wire - wire)	2 kV @ 60 s
Withstand voltage (wire - jacket)	2 kV @ 60 s
Current load capacity max. (wire)	5.9 A
Current load capacity max. Wire (type 2)	15 A
Current load capacity (standard)	to DIN VDE 0298-4
Operating temperature (static)	-40 °C … 80 °C / 90 °C @ 10000 h Operation
Operating temperature (dynamic)	-25 °C … 80 °C / 90 °C @ 10000 h Operation
Operating temperature (drag chain)	-5 °C … 60 °C
Flame resistance	IEC 60332-1-2

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Oil resistance	ISO 19642-3
Chemical resistance	ISO 19642-3
Ozone resistance	IEC 60811-403
UV resistance	UL 1581 § 1200
Other resistances	resistance to gasoline (ISO 19642-3), resistant to mineral oils, greases, machine and gear oils and cooling lubricants, resistant to hydrolysis, resistant to microbes
Notes	application-related testing
Bending radius (fixed)	7.5 × Outer diameter
Bending radius (dynamic)	10 × Outer diameter
No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C | horizontal
Travel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	10 m/s² @ 25 °C

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