



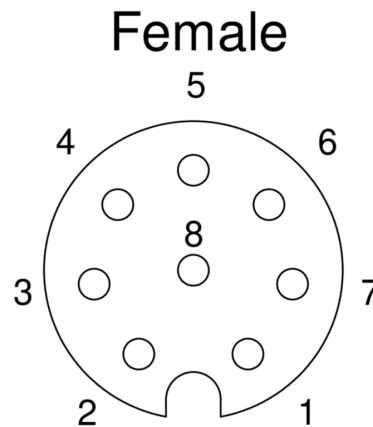
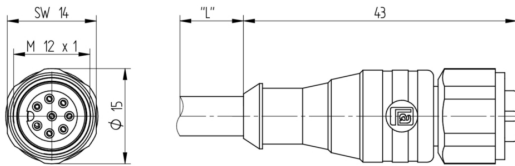
**Product:** [WRKT 8-523](#)

M12 F&B (Wash-Down) Sensor/Actuator Single-Ended Cordset: Female, straight, 8-pin, A-coded, white body, 30 V AC/DC, 2 A; TPE orange cable, 8-wires, 0.25 mm<sup>2</sup>

### Product Description

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### Technical Drawing



### Technical Specifications

#### Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
white	brown	green	yellow	grey	pink	blue	red

#### Technical Data

Product Family:	Sensor / Actuator Connectors
Product Sub Family:	M12 F&B (Wash-Down)
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Female
Connector Design:	Straight
Number of Pins:	8
Coding:	A
Shielding:	Unshielded
Attachment Type:	Coupling Nut
Rated Voltage:	30 V
Rated Voltage (UL):	30 V AC/DC
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	30 V AC/DC
Rated Current*:	2 A
Rated Current (UL)*:	4 A

Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 105 °C
Operating Temperature (UL):	max. + 65 °C
Protection Degree / IP Rating**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

## Materials

Contact Base Material:	CuZn
Contact Plating:	Cu/Au
Contact Bearer Material:	PP-GF
Contact Bearer Color:	White
Flammability Class (Contact Bearer):	UL 94 HB
Molded Body Material:	PP-GF
Molded Body Color:	White
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	Stainless Steel
O-Ring Material:	EPDM, black

## Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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## Cable Data

Cable Number:	523
Conductor Size:	0.25 mm <sup>2</sup>
Number of Wires:	8
Minimal Bending Radius (Fixed Inst):	> 5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 2 M
Conductor material:	Cu
Cable Jacket Material:	TPE-V-compound, flame retardent
Cable Jacket Color:	orange
Cable Diameter D:	ø 6.2 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.25 mm
Ambient Temperature (Fixed Installation):	- 40 °C - + 90 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 90 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 21484
Flammability Class (Cable Jacket):	UL horizontal flame test, flame-retardant
Cable Characteristics:	Free of silicone; Free of FCKW; Free of cadmium and lead; Microbe and hydrolysis resistant

## Approvals

UL-File:	E315587
UL:	UL 2238; cURus

## Safety & Environmental Compliance

RoHS Compliant:	yes
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## Resistances

ECOLAB:	Yes
Oil Resistance:	Good chemical and oil resistance

## Notes

Note Derating:	Notice derating
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Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	Do not connect or disconnect under load.

**Variants**

Item #	Item Description	Cable Length	Rated Current
934733019	WRKT 8-523/2 M	2 m	2 A
934733020	WRKT 8-523/5 M	5 m	2 A
934733021	WRKT 8-523/10 M	10 m	2 A
934733022	WRKT 8-523/15 M	15 m	2 A
934733023	WRKT 8-523/20 M	20 m	2 A
934733024	WRKT 8-523/25 M	25 m	2 A

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