



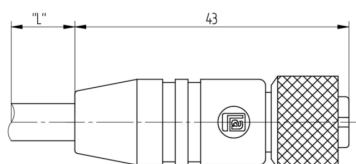
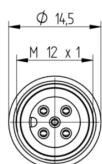
**Product:** [RKTS 5-298](#)

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 5-pin, A-coded, shielded, orange body, 50 V AC / 60 V DC, 4 A; PUR black cable, 5-wires, 0.34 mm<sup>2</sup>

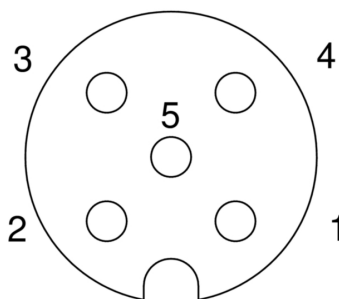
### Product Description

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### Technical Drawing



## Female



### Technical Specifications

#### Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
brown	white	blue	black	grey

#### Technical Data

Product Family:	Sensor / Actuator Connectors
Side 1 Product Sub Family:	M12 Standard
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Side 1 Type of Contact/Gender:	Female
Connector Design:	Straight
Number of Pins:	5
Coding, Side 1:	A
Shielding Type:	Shielded
Attachment Type:	Coupling Nut
Voltage Rating:	60 V
Rated Voltage (UL):	250 V AC
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Current Rating:	4 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 - + 90 °C
Operating Temperature (UL):	max. + 50 °C
Protection Degree / IP Rating**:	IP65, IP67, 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:	CuSn
Side 1 Contact Plating:	Cu/Au
Contact Bearer Material:	PA
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	TPU
Molded Body Color:	Orange
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Shielding Material:	CuZn, tin-plated
O-Ring Material:	FKM, green

## Additional Technical Data

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

Cable Number:	298
Conductor Size:	0.34 mm <sup>2</sup>
Number of Wires:	5
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:	PUR
Cable Jacket Color:	black
Cable Diameter D:	ø 5.85 ± 0.15 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.30 mm
Overall Shield (Cable):	Mesh wire
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2
Cable Characteristics:	Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; LABS-free of lacquer wetting disturbing substances; Coldness flexibility

## Approvals

UL-File:	E315587
UL:	UL 2238; cURus

## Safety & Environmental Compliance

RoHS Compliant:	yes
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## Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1
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## Notes

Note Derating:	Notice derating
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.

## History

Update and Revision:	Revision Number: 0.72 Revision Date: 02-03-2025
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## Variants

Item #	Item Description	Cable Length	Rated Current
455	RKTS 5-298/60 M	60 m	4 A
49230	RKTS 5-298/10 M	10 m	4 A
49231	RKTS 5-298/2 M	2 m	4 A
49232	RKTS 5-298/5 M	5 m	4 A
49236	RKTS 5-298/20 M	20 m	4 A
51248	RKTS 5-298/15 M	15 m	4 A
61632	RKTS 5-298/1 M	1 m	4 A
79736	RKTS 5-298/30 M	30 m	4 A
86910	RKTS 5-298/6 M	6 m	4 A
88011	RKTS 5-298/25 M	25 m	4 A
934637551	RKTS 5-298/40 M	40 m	4 A
75193	RKTS 5-298/1,5 M	1.5 m	4 A
934637814	RKTS 5-298/3 M	3 m	4 A
6127	RKTS 5-298/50 M	50 m	4 A
19645	RKTS 5-298/7 M	7 m	4 A
23566	RKTS 5-298/2,25 M		4 A
13085	RKTS 5-298/0,6 M		4 A
18982	RKTS 5-298/200 M		4 A
18981	RKTS 5-298/150 M		4 A

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