



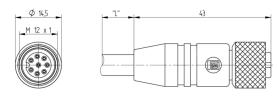
Product: <u>RKTS 8-299</u> ☑

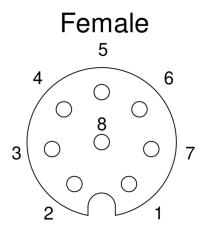
M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 8-pin, A-coded, shielded, orange body, 30 V AC/DC, 2 A; PUR black cable, 8-wires, 0.25 mm²

Product Description

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 8-pin, A-coded, shielded, orange body, 30 V AC/DC, 2 A; PUR black cable, 8-wires, 0.25 mm²

Technical Drawing





Technical Specifications

Face View

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

Technical Data

Product Sub Family: M12 Standard Brand: Lumberg Automation Connector Type: Cordset, single ended Type of Contact / Gender: Female Connector Design: Straight Number of Pins: 8 Coding: A Shielding: Shielded Attachment Type: Coupling Nut Rated Voltage: 0.9 V Operating Voltage: 0.9 V Querting Voltage: 0.9 V Contact Resistance: 2.1 mOhm		
Brand:Lumberg AutomationConnector Type:Cordset, single endedType of Contact / Gender:FemaleConnector Design:StraightNumber of Pins:8Coding:ACoding:NieldedShieldedCoupling NutRated Voltage:00 V0.8 kV0.9 kVOperating Voltage:0.9 V AC/DCRated Current*:2.4Contage States1.0 mOhm	Product Family:	Sensor / Actuator Connectors
Connector Type: Cordset, single ended Type of Contact / Gender: Female Connector Design: Straight Number of Pins: 8 Coding: A Shieldeng: Shielded Attachment Type: Coupling Nut Rated Voltage: 0.V Operating Voltage: 0.V AC/DC Rated Current*: 2.A South Rated Resistance: 4.1 mohm	Product Sub Family:	M12 Standard
Type of Contact / Gender: Female Connector Design: Straight Number of Pins: 8 Coding: A Shielding: Shielded Attachment Type: Coupling Nut Rated Voltage: 0.8 kV Operating Voltage: 0.9 V AC/DC Rated Current*: 2 A Identified Current*: 2 A	Brand:	Lumberg Automation
Connector Design: Straight Number of Pins: 8 Coding: A Coding: Shielded Shielding: Shielded Attachment Type: Coupling Nut Rated Voltage: 0.V Operating Voltage: 0.V AC/DC Rated Current*: 2.A Contact Resistance: 10 mOhm	Connector Type:	Cordset, single ended
Number of Pins: 8 Coding: A Shielding: Shielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Impulse Voltage: 0.8 kV Operating Voltage: 30 V AC/DC Rated Current*: 2 A Contact Resistance: \$ 10 mOhm	Type of Contact / Gender:	Female
Coding: A Shielding: Shielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Impulse Voltage: 0.8 kV Operating Voltage: 30 V AC/DC Rated Current*: 2 A Condact Resistance: 410 mOhm	Connector Design:	Straight
Shielding: Shielded Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Impulse Voltage: 0.8 kV Operating Voltage: 30 V AC/DC Rated Current*: 2 A Contact Resistance: 10 mOhm	Number of Pins:	8
Attachment Type: Coupling Nut Rated Voltage: 30 V Rated Impulse Voltage: 0.8 kV Operating Voltage: 30 V AC/DC Rated Current*: 2 A Contact Resistance: ≤ 10 mOhm	Coding:	A
Rated Voltage: 30 V Rated Impulse Voltage: 0.8 kV Operating Voltage: 30 V AC/DC Rated Current*: 2 A Contact Resistance: ≤ 10 mOhm	Shielding:	Shielded
Rated Impulse Voltage: 0.8 kV Operating Voltage: 30 V AC/DC Rated Current*: 2 A Contact Resistance: ≤ 10 mOhm	Attachment Type:	Coupling Nut
Operating Voltage: 30 V AC/DC Rated Current*: 2 A Contact Resistance: ≤ 10 mOhm	Rated Voltage:	30 V
Rated Current*: 2 A Contact Resistance: ≤ 10 mOhm	Rated Impulse Voltage:	0.8 kV
Contact Resistance: ≤ 10 mOhm	Operating Voltage:	30 V AC/DC
	Rated Current*:	2 A
Insulation Resistance: > 10^9 Ohm	Contact Resistance:	≤ 10 mOhm
	Insulation Resistance:	> 10^9 Ohm

Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °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:	CuZn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 HB
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):

chment): M 12x1: (50-60) Ncm, hand-tight

Cable Data

Cale Number:99Conduct Size:0.5 mc²Number of Wires:9.5 mc²Minal Beding Radiu (Mathema)9.5 ncMinal Beding Radiu (Mathema)9.0 ncColde Gale Mathema9.0 ncColde Gale Mathema0.0 ncColde Mathem		
Number of Wires:Percention of Minimal Bending Radius (Fixed Inst.)Minimal Bending Radius (Fixed Inst.)> 5x DMinimal Bending Radius (Fixed Inst.)> 10x DCholes Ale Gradius (Fixed Inst.)> 2MCoductor material:> CCoductor material:> CCoductor Material:> PRCable Jacket Material:> 6x 6n maintainty RAL 9005Coles Ladout Material:> 6x 6n maintainty RAL 9005Coles Ladout Material:> 10x 0.0000Vire Instaltor Material:> 10x 0.0000Vire Instaltor Material:> 10x 0.0000Vire Instaltor Material:> 6x 0.0000Vire Instaltor Material:> 0x 0.00000Vire Instaltor Material:> 0x 0.00000000000000000000000000000000	Cable Number:	299
Name of the second se	Conductor Size:	0.25 mm ²
Mininal Bending Radius (Flexible Interse Minimal Bending Radius (Flexible Interse Schell Schell S	Number of Wires:	8
Cycles (Bending):> 2 MConductor material:CuCable Jacket Material:PURCable Jacket Material:back matsimilarly RAL 9005Cable Jacket Color:0 6.00 mmCable Jacket Material:PVire Insulation Material:1.20 ± 0.05 mmNaterated Vire Diameter:0.120 ± 0.05 mmCarlen State OfficeSo ° C + 90 ° C (UL: ± 80 °C)Ambient Temperature (Fixed Insulation)5 ° C + 0.05 °C (UL: ± 80 °C)Ambient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C (UL: ± 80 °C)Anbient Temperature (Diago Charlent)2 ° C + 0.05 °C)Anbient Temperature	Minimal Bending Radius (Fixed Inst):	>5xD
Conductor material:CuConductor material:FURCable Jacket Material:Buck matt similarly RAL 9005Cable Diameter D:0 6.00 mmVire Insulation Material:PInsulated Wire Diameter:0 1.00 5 mmCoverall Shield (Cable):Mesh wireAmbient Temperature (Fixed Instal)50 °C + 190 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):52 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):52 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):52 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):52 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):52 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):52 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):52 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):52 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):51 °C + 00 °C (UL: + 80 °C)Ambient Temperature (Drag Chaint):	Minimal Bending Radius (Flexible Inst):	> 10 x D
CalculationCalculationCable Jacket Material:PRCable Jacket Color:back matsimilarly RAL 9005Cable Diameter D:o.60 mmVire Insulation Material:PInsulated Wire Diameter:o.120 ± 0.05 mmOverall Shield (Cable):Mesh vireAmbient Temperature (Fixed Insta):50 ° C + 90 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (UL : + 80 ° C)Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (Drag Chalmeter):Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (Drag Chalmeter):Ambient Temperature (Drag Chalmeter):50 ° C + 00 ° C (Drag Chalmeter):Ambient Tem	Cycles (Bending):	> 2 M
A constraintA constraintCable Jacket Color:b constraintCable Diameter D:b constraintVire Insulation Material:PInsulated Wire Diameter:b constraintOverall Shield (Cable):b constraintAmbient Temperature (Fixed Instat)50°C + 10°C (UL: + 80°C)Anbient Temperature (Trage Charlistic)50°C + 00°C (UL: + 80°C)	Conductor material:	Cu
Cable Diameter D:6.60 mmVire Insulation Material:PInsulated Wire Diameter:0.20 ± 0.05 mmNoveral Shield (Cable):0.80 × 0.05 × 0.	Cable Jacket Material:	PUR
Wie Insulation MaterialPPInsulated Wire Diameter:0.20 ± 0.05 mmOverall Shield (Cable):0.40 ± 0.05 mmAmbient Temperature (Fixed Instation):0.50 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.03 * 0.02 ± 0.0	Cable Jacket Color:	black matt similarly RAL 9005
Insulated Wire Diameter: #1.20 ± 0.05 mm Overall Shield (Cable): #sh wire Ambient Temperature (Fixed Installation): 50 °C + 90 °C (UL: + 80 °C) Ambient Temperature (Drag Chain): 52 °C + 60 °C (UL: + 80 °C) Aubient Temperature (Drag Chain): 52 °C + 60 °C (UL: + 80 °C) UL Cable Type: WM: 20549 Famability Class (Cable Jack): Dis Montal Cable Jack):	Cable Diameter D:	ø 6.60 mm
Overall Shield (Cable): Mesh wire Ambient Temperature (Fixed Installation): 50 °C - + 90 °C (UL: + 80 °C) Ambient Temperature (Flex Installation): 25 °C - + 90 °C (UL: + 80 °C) Ambient Temperature (Drag Chain Instein): 25 °C - + 60 °C UL Cable Type: AWM: 20549 Flamability Class (Cable Jacket): DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2	Wire Insulation Material:	PP
Ambient Temperature (Fixed Installation) -0° °C · UL: + 80°C) Ambient Temperature (Flex Installation) -0° °C · UL: + 80°C) Ambient Temperature (Drag Chain Instein) -25° C - + 00°C (UL: + 80°C) UL Cable Type: -25° C - + 00°C Flammability Class (Cable Jacket): DIN EN 0332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2	Insulated Wire Diameter:	ø 1.20 ± 0.05 mm
Ambient Temperature (Flex Installation): -25 °C - + 90 °C (UL: + 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	Overall Shield (Cable):	Mesh wire
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	Ambient Temperature (Fixed Installation):	- 50 °C - + 90 °C (UL: + 80 °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	Ambient Temperature (Flex Installation):	- 25 °C - + 90 °C (UL: + 80 °C)
Flammability Class (Cable Jacket): DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2	Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C
	UL Cable Type:	AWM: 20549
Cable Characteristics: Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Coldness flexibility	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; Coldness flexibility

Safety & Environmental Compliance

RoHS Compliant:	yes			
Resistances				
Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1			
Oil Resistance:	Good chemical and oil resistance			
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.

Item #	Item Description	Cable Length	Rated Current
5828	RKTS 8-299/1,5 M	1.5 m	2 A
49260	RKTS 8-299/10 M	10 m	2 A
49261	RKTS 8-299/2 M	2 m	2 A
49262	RKTS 8-299/5 M	5 m	2 A
49274	RKTS 8-299/20 M	20 m	2 A
60532	RKTS 8-299/25 M	25 m	2 A
65830	RKTS 8-299/50 M	50 m	2 A
75574	RKTS 8-299/0,3 M	0.3 m	2 A
83095	RKTS 8-299/6 M	6 m	2 A
106337	RKTS 8-299/0,5 M	0.5 m	2 A
934636184	RKTS 8-299/1 M	1 m	2 A
934637561	RKTS 8-299/40 M	40 m	2 A
106219	RKTS 8-299/3,5 M	3.5 m	2 A
7209	RKTS 8-299/0,6 M	0.6 m	2 A
49275	RKTS 8-299/15 M	15 m	2 A
15576	RKTS 8-299/27 M	27 m	2 A
60002	RKTS 8-299/3 M	3 m	2 A
56809	RKTS 8-299/30 M	30 m	2 A
15577	RKTS 8-299/32 M	32 m	2 A

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