



Product: RST 5-RKWT/LED P 5-259 ☑

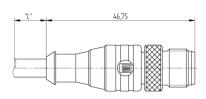
Sensor/Actuator Double-Ended Cordset: Male straight A-coded translucent 5-pin M12 Standard connector to female angled A-coded translucent 5-pin M12 Standard connector with 3xLEDs (PNP), 10-30 V DC, 4 A; PUR orange cable, 5-wires, 0.50 mm²

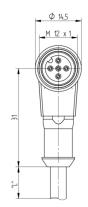
Product Description

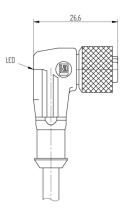
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Technical Drawing

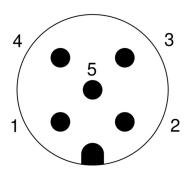




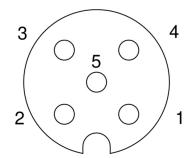


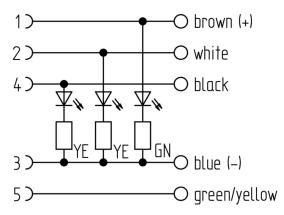


Male



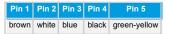
Female



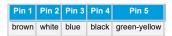


Technical Specifications

Face View Side 1



Face View Side 2



Product Description

Product Family:	Sensor / Actuator Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	30 V
Rated Impulse Voltage:	0.8 kV
Operating Voltage:	10-30 V DC
Rated Current*:	4 A

Technical Data Side 1

Product Sub Family: M12 Standard Type of Contact / Gender: Male Connector Design: Straight Attachment Type: Coupling Screw Number of Pins: 5 Coding: A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C	
Connector Design: Straight Attachment Type: Coupling Screw Number of Pins: 5 Coding: A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C	
Attachment Type: Coupling Screw Number of Pins: 5 Coding: A Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C	
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Contact Resistance: ≤ 10 mOhm Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - + 90 °C	
Insulation Resistance: > 10^9 Ohm Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - +90 °C	
Mating Cycles: ≤ 100 Ambient Temperature (Operation)*: -40 °C - +90 °C	
Ambient Temperature (Operation)*: -40 °C - +90 °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)	
Contact Base Material: CuSn	
Contact Plating: Cu/Au	
Contact Bearer Material: TPU-GF	
Contact Bearer Color: Orange	
Flammability Class (Contact Bearer): UL 94 HB	
Molded Body Material: TPU	
Molded Body Color: Translucent	
Flammability Class (Molded Body): UL 94 HB	

Attachment Material:	CuZn	
Attachment Plating:	Nickel-plated	
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight	
Note:	Do not connect or disconnect under load.	

Cable Data

Cable Number:	259
Conductor Size:	0.5 mm ²
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	>5 x D
Minimal Bending Radius (Flexible Inst):	> 10 x D
Cycles (Bending):	> 5 M
Cycles (Torsion):	> 5 M @ ± 360 °/1 m
Welding Resistance:	Welding spark resistant
Conductor material:	Cu
Cable Jacket Material:	PUR
Cable Jacket Color:	orange
Cable Diameter D:	ø 5.50 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.50 mm
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:	Free of lacquer wetting disturbing substances; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Seawater resistance; Coldness flexibility

Technical Data Side 2

Type of Contact / Gender, Side 2: Female Connector Design, Side 2: Angled Attachment Type, Side 2: Coupling Nut Number of Pins, Side 2: 5 Coding, Side 2: A Contact Resistance, Side 2: \$ 10 mChm Insulation Resistance, Side 2: \$ 100 mChm Mating Cycles, Side 2: \$ 100 Ambient Temperature (Operation). \$ 10° C + 90° C Side 2: \$ 106 Protection Degree / I/P Rating, Side 2: 1865, IP67, IP68 (1 m / 24 h), IP69K Design Standard, Side 2: IE66 (10°62-101 Overvoltage Category, Side 2: 3 acc. to IN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: CuSn Contact Base Material, Side 2: CuSn Contact Baser Material, Side 2: CuSn Contact Baser Raterial, Side 2: TPU Contact Baser Color, Side 2: U. 94 HB Molded Body Material, Side 2: TPU Molded Body Material, Side 2: Transluent Flammability Class (Molded Body). U. 94 HB Side 2: Transluent Flammability Class (Molde	Technical Bata Olde 2	
Connector Design, Side 2: Angled Altachment Type, Side 2: Coupling Nut Number of Pins, Side 2: 5 Coding, Side 2: A Contract Resistance, Side 2: 4 non-month Insulation Resistance, Side 2: 5 10 mOhm Insulation Resistance, Side 2: 5 10 mOhm Mating Cycles, Side 2: 4 100 Ambient Temperature (Operation), Side 2: 40 °C - + 90 °C Forection Degree / IP Rating, Side 2: IEC 8 (1076-2-101) Pollution Degree, Side 2: 1 III acc. to DIN EN 60664-1 (VDE 0110-1) Overvoitage Category, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Au Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: TPU Contact Bearer Aderial, Side 2: TPU Contact Bearer Color, Side 2: Translucent Islimmability Class (Contact Bearer), Side 2: Translucent Molded Body Material, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body). Nickel-plated O-Ring M	Product Sub Family, Side 2:	M12 Standard
Attachment Type, Side 2: Coupling Nut Number of Pins, Side 2: 5 Coding, Side 2: A Contact Resistance, Side 2: 5 10 mOhm Insulation Resistance, Side 2: 5 100 mOhm Mating Cycles, Side 2: 5 100 Ambient Temperature (Operation), Side 2: 5 100 Ambient Temperature (Operation), Side 2: 5 100 Ambient Temperature (Operation), Side 2: 100 Ambient Temperature (Operation), Side 2: 100 Ambient Temperature (Operation), Side 2: 100 Ambient Side 2: 16 100 Ambient Side 2: 16 100 Ambient Side 2: 16 100 Ill acc. to Din En 60684-1 (VDE 0110-1) Overvoltage Category, Side 2: 11 100 Contact Base Material, Side 2: CuSh Contact Base Material, Side 2: CuSh Contact Baser Material, Side 2: TPU Contact Bearer Color, Side 2: TPU Molded Body Material, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), UL 94 HB Attachment Material, Side 2: CuZn Attachment Material, Side 2: Nickel-plated O-Ring Material, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Type of Contact / Gender, Side 2:	Female
Number of Pins, Side 2: 5 Coding, Side 2: A Contact Resistance, Side 2: \$ 10 mOhm Insulation Resistance, Side 2: \$ 10 mOhm Mating Cycles, Side 2: \$ 100 Ambient Temperature (Operation), Side 2: 40 °C + 90 °C Protection Degree / IP Rating, Side 2: IEC \$1076-2-101 Posign Standard, Side 2: IEC \$1076-2-101 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuSh Contact Plating, Side 2: TPU Contact Bearer Material, Side 2: TPU Contact Bearer Color, Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body). Us 94 HB Molded Body Color, Side 2: Translucent Flammability Class (Molded Body). Use 4 HB Molded Body Color, Side 2: Translucent Flammability Class (Molded Body). Use 4 HB	Connector Design, Side 2:	Angled
Coding, Side 2: A Contact Resistance, Side 2: \$ 10 mOhm Insulation Resistance, Side 2: > 10°9 Ohm Mating Cycles, Side 2: \$ 100 Ambient Temperature (Operation) * 40 °C - + 90 °C Side 2: 10 E 6 10 F 8. (1 m / 24 h), IP69K Protection Degree / IP Rating, Side 2: 165 (10°6 2-10) Pollution Degree, Side 2: 3 acc. to DIN EN 60684-1 (VDE 0110-1) Pollution Degree, Side 2: 3 acc. to DIN EN 60684-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Au Contact Base Material, Side 2: TPU Contact Bearer Material, Side 2: TPU Contact Bearer Color, Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Material, Side 2: Trustucent Molded Body Color, Side 2: Trustucent <	Attachment Type, Side 2:	Coupling Nut
Contact Resistance, Side 2: \$ 10 mOhm Insulation Resistance, Side 2: \$ 10°9 Ohm Mating Cycles, Side 2: \$ 100 Anhient Temperature (Operation). -40°C - +90°C Protection Degree / IP Rating, Side 2: IEC 61076-2-101 Posign Standard, Side 2: IEC 61076-2-101 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Au Contact Bearer Material, Side 2: TPU Contact Bearer Material, Side 2: Orange Islemmability Class (Contact Bearer) UL 94 HB Molded Body Material, Side 2: Translucent Molded Body Color, Side 2: Translucent Molded Body Color, Side 2: Translucent Flammability Class (Molded Body). U. 94 HB Attachment Material, Side 2: Nickel-plated O-Ring Material, Side 2: Nickel-plated O-Ring Material, Side 2: KKM, green	Number of Pins, Side 2:	5
Insulation Resistance, Side 2: > 10°9 Ohm Mating Cycles, Side 2: \$ 100 Ambient Temperature (Operation), Side 2': 16°5 (16°7 (19°8 (1 m / 24 h), 19°6 (10°7 (10	Coding, Side 2:	A
Mating Cycles, Side 2: \$ 100 Ambient Temperature (Operation), Side 2**: -40 °C - + 90 °C Protection Degree / IP Rating, Side 2**: IP65, IP67, IP68 (1 m / 24 h), IP69K Design Standard, Side 2: IEC 61076-2-101 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Au Contact Base Material, Side 2: TPU Contact Bearer Material, Side 2: Orange Flammability Class (Contact Bearer), Side 2: UL 94 HB Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Islammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: Nickel-plated	Contact Resistance, Side 2:	≤ 10 mOhm
Ambient Temperature (Operation), Side 2*:	Insulation Resistance, Side 2:	> 10^9 Ohm
Side 2*: Protection Degree / IP Rating, Side 2*: IP65, IP67, IP68 (1 m / 24 h), IP69K Design Standard, Side 2: IEC 61076-2-101 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuSn Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: TPU Contact Bearer Material, Side 2: Orange Flammability Class (Contact Bearer), Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Mol	Mating Cycles, Side 2:	≤ 100
Design Standard, Side 2: IEC 61076-2-101 Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: III acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuSn Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: TPU Contact Bearer Material, Side 2: Orange Isammability Class (Contact Bearer), Side 9: TPU Molded Body Material, Side 2: TPU Molded Body Color, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: CuZn Attachment Material, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Ambient Temperature (Operation), Side 2*:	-40 °C - +90 °C
Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: Cu/Au Contact Plating, Side 2: TPU Contact Bearer Material, Side 2: Orange Flammability Class (Contact Bearer), Side 9: TPU Molded Body Material, Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Trunslucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: CuZn Attachment Material, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Overvoltage Category, Side 2: Ill acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material, Side 2: CuSn Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: TPU Contact Bearer Color, Side 2: Orange Flammability Class (Contact Bearer), Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: CuZn Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Design Standard, Side 2:	IEC 61076-2-101
Contact Base Material, Side 2: CuSn Contact Plating, Side 2: Cu/Au Contact Bearer Material, Side 2: TPU Contact Bearer Color, Side 2: Orange Flammability Class (Contact Bearer), Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: CuZn Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Plating, Side 2: Cul/Au Contact Bearer Material, Side 2: TPU Contact Bearer Color, Side 2: Orange Flammability Class (Contact Bearer), Side 2: TPU Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: CuZn Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Bearer Material, Side 2: TPU Contact Bearer Color, Side 2: Orange Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: Mickel-plated Attachment Material, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Contact Base Material, Side 2:	CuSn
Contact Bearer Color, Side 2: Orange Flammability Class (Contact Bearer), Side 2: UL 94 HB Molded Body Material, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: CuZn Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Contact Plating, Side 2:	Cu/Au
Flammability Class (Contact Bearer). Side 2: Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent Flammability Class (Molded Body). Side 2: Attachment Material, Side 2: Attachment Plating, Side 2: O-Ring Material, Side 2: FKM, green	Contact Bearer Material, Side 2:	TPU
Side 2: TPU Molded Body Material, Side 2: Translucent Flammability Class (Molded Body), Side 2: Translucent Flammability Class (Molded Body), Side 2: CuZn Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Contact Bearer Color, Side 2:	Orange
Molded Body Color, Side 2: Translucent Flammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Flammability Class (Molded Body), Side 2: UL 94 HB Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Molded Body Material, Side 2:	TPU
Side 2: CuZn Attachment Material, Side 2: CuZn Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Molded Body Color, Side 2:	Translucent
Attachment Plating, Side 2: Nickel-plated O-Ring Material, Side 2: FKM, green	Flammability Class (Molded Body), Side 2:	UL 94 HB
O-Ring Material, Side 2: FKM, green	Attachment Material, Side 2:	CuZn
	Attachment Plating, Side 2:	Nickel-plated
Function Indicator, Side 2: 3xLEDs (PNP)	O-Ring Material, Side 2:	FKM, green
	Function Indicator, Side 2:	3xLEDs (PNP)

Fastening Torque (Attachment), Side 2: M 12x1: (50-60) Ncm, hand-tight

Safety & Environmental Compliance

RoHS Compliant: yes				
	RoHS Compliant: y	yes		

Resistances

Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1	
Oil Resistance:	VDE 0472-803	

Notes

Protection Degree / IP Rating No		** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
	Note Derating:	Notice derating

Variants

Item #	Item Description	Cable Length
24921	RST 5-RKWT/LED P 5-259/1,5 M	1.5 m
29779	RST 5-RKWT/LED P 5-259/0,3 M	0.3 m
29780	RST 5-RKWT/LED P 5-259/0,6 M	0.6 m
29874	RST 5-RKWT/LED P 5-259/1 M	1 m
57326	RST 5-RKWT/LED P 5-259/2 M	2 m
65658	RST 5-RKWT/LED P 5-259/5 M	5 m
934637542	RST 5-RKWT/LED P 5-259/3 M	3 m
13461	RST 5-RKWT/LED P 5-259/10 M	10 m
15754	RST 5-RKWT/LED P 5-259/12,5 M	12.5 m
14236	RST 5-RKWT/LED P 5-259/2,5 M	2.5 m
15753	RST 5-RKWT/LED P 5-259/4 M	4 m
14237	RST 5-RKWT/LED P 5-259/7,5 M	7.5 m

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