



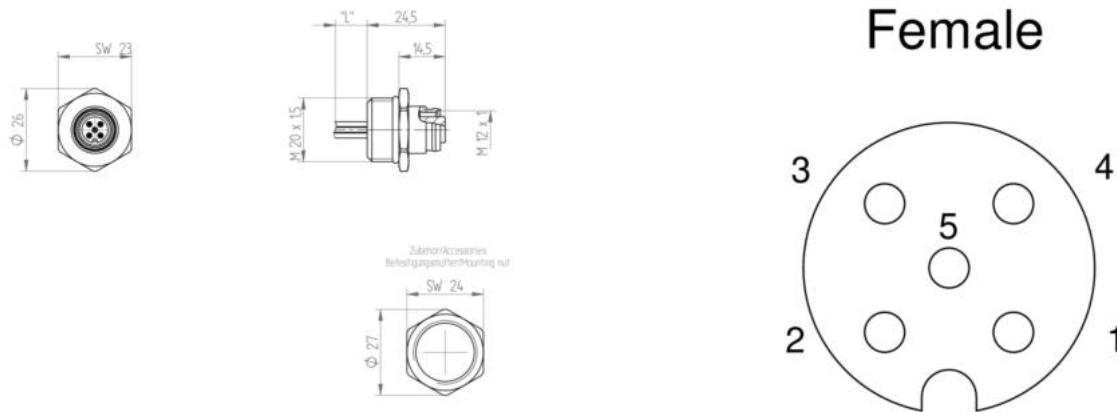
Product: [RKFM 5/20 M](#)

M12 Standard Sensor/Actuator Receptacle Connector: Female, front mount, M12 - mating side, stranded wires - connecting side, 5-pin, A-coded, unshielded, metallic grey housing, 50 V AC / 60 V DC, 4 A

Product Description

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Technical Drawing



Technical Specifications

Face View

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
brown	white	blue	black	green-yellow

Technical Data

Product Family:	Sensor / Actuator Connectors	
Product Sub Family:	M12 Standard	
Mating Side:	M12	
Connecting Side:	Stranded Wires	
Brand:	Lumberg Automation	
Connector Type:	Receptacle	
Type of Contact / Gender:	Female	
Connector Design:	Front Mount	
Number of Pins:	5	
Coding:	A	
Attachment Type:	Screw-Locking	
Rated Voltage:	60 V	
Rated Voltage (UL):	30 V AC/DC	
Rated Impulse Voltage:	1.5 kV	
Operating Voltage:	50 V AC / 60 V DC	
Rated Current*:	4 A	

Rated Current (UL)*:	4 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Type of Connection:	Crimp
Thread Size:	M20x1.5
Ambient Temperature (Operation)*:	- 25 °C - + 85 °C
Operating Temperature (UL):	max. + 50 °C
Protection Degree / IP Rating**:	IP65, IP67
Design Standard:	Pin assignment deviating from IEC 61076-2-101 and IEC 61140
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Clearance / Creepage Distance:	DIN EN 60664-1 (2008/01); VDE 0110-1
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

Materials

Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	TPU
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 HB
Potted:	Yes
Housing Material:	CuZn
Housing Plating:	Nickel-plated
Housing Color:	Silver
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
O-Ring Material:	Front O-ring: FKM; Rear O-ring: CR

Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Accessories to Order Separately:	000-025-048 Mounting Nut M20x1.5

Cable Data

Cable Number:	908 09 / 908 43
Conductor Size:	4x0.355 mm²+1x0.50 mm²(GNYE)
Number of Wires:	5
Conductor material:	Cu
Wire Insulation Material:	PVC
Insulated Wire Diameter:	ø 1.55 mm ± 0.1 mm / ø 1.8 mm ± 0.1 mm (GNYE)
Ambient Temperature (Fixed Installation):	- 40 °C - + 90 °C
Ambient Temperature (Flex Installation):	- 20 °C - + 90 °C
UL Cable Type:	AWM: 1007+1679 (GNYE)
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL-VW1
Core Colors:	black, white, blue, brown, yellow/green

Approvals

UL-File:	E315587
UL:	cURus

Safety & Environmental Compliance

RoHS Compliant:	yes
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Notes

Note Derating:	* Notice derating
Protection Degree / IP Rating Note:	* only if mounted and locked in combination with Hirschmann / Lumberg connector. On the installation side tightness has to be assured by taking proper measures.
Note:	The receptacle connector is constructively intended for usage in IP67-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-101.

Variants

Item #	Item Description	Cable Length
50617	RKFM 5/20/0,5 M	0.5 m
107256	RKFM 5/20/1 M	1 m
8957	RKFM 5/20/2 M	2 m

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