



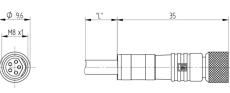
# Product: <u>RKMV 5-506</u>

M8 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 5-pin, B-coded, translucent body, 50 V AC / 60 V DC, 3 A; PUR black cable, 5-wires, 0.25 mm<sup>2</sup>

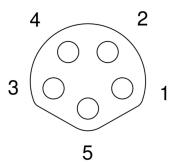
# **Product Description**

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# **Technical Drawing**







# **Technical Specifications**

#### Face View

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

### **Technical Data**

Product Family:	Sensor / Actuator Connectors
Product Sub Family:	M8 Standard
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Female
Connector Design:	Straight
Number of Pins:	5
Coding:	В
Shielding:	Unshielded
Attachment Type:	Coupling Nut
Rated Voltage:	60 V
Rated Voltage (UL):	30 V AC/DC
Rated Impulse Voltage:	0.8 KV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	3 A

Rated Current (UL)*:	3 A
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Operating Temperature (UL):	max. + 75 °C
Protection Degree / IP Rating**:	IP65, IP67, IP69K
Design Standard:	IEC 61076-2-104
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category:	II acc. to DIN EN 60664-1 (VDE 0110-1)

### **Materials**

Contact Base Material:	CuZn
Contact Plating:	Cu/Au
Contact Bearer Material:	PA 66 GF
Contact Bearer Color:	Orange
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	TPU
Molded Body Color:	Translucent
Flammability Class (Molded Body):	UL 94 HB
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
O-Ring Material:	FKM, green

# **Additional Technical Data**

Fastening Torque (Attachment):

M 8x1: 30 Ncm, hand-tight

### Cable Data

Cable Number:	506
Conductor Size:	0.25 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 5.0 ± 0.20 mm
Wire Insulation Material:	PP
Insulated Wire Diameter:	ø 1.20 ± 0.10 mm
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 Inst):	- 25 °C - + 60 °C
UL Cable Type:	AWM: 20549
Flammability Class (Cable Jacket):	UL Horizontal Flametest, CSA FT2

# Approvals

UL-File:	E315587
UL:	UL 2238; cURus

# Safety & Environmental Compliance

RoHS Compliant:	yes
Resistances	
Oil Resistance:	IEC 60811-2-1
Notes	
Note Derating:	Notice derating

Protection Degree / IP Rating Note:	$^{\star\star}$ only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	Do not connect or disconnect under load.

#### Variants

ltem #	Item Description	Cable Length
934841019	RKMV 5-506/2 M	2 m
934841020	RKMV 5-506/5 M	5 m
934841021	RKMV 5-506/10 M	10 m
934841022	RKMV 5-506/15 M	15 m
934841023	RKMV 5-506/20 M	20 m
934841024	RKMV 5-506/25 M	25 m

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