



## Product: RSM 5-RKM 5-506 ☑

Sensor/Actuator Double-Ended Cordset: Male straight B-coded translucent 5-pin M8 Snap-In connector to female straight B-coded translucent 5-pin M8 Snap-In connector, 50 V AC / 60 V DC, 3 A; PUR black cable, 5-wires, 0.25 mm<sup>2</sup>

#### **Product Description**

Sensor/Actuator Double-Ended Cordset: Male straight B-coded translucent 5-pin M8 Snap-In connector to female straight B-coded translucent 5-pin M8 Snap-In connector, 50 V AC / 60 V DC, 3 A; PUR black cable, 5-wires, 0.25 mm²

#### **Technical Drawing**

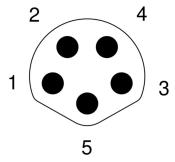




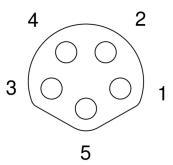




# Male

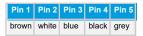


## Female



## **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:	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

## **Technical Data Side 1**

Product Sub Family:	M8 Snap-In	
Type of Contact / Gender:	Male	
Connector Design:	Straight	
Attachment Type:	Snap- and Screw-Locking	
Number of Pins:	5	
Coding:	В	
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 (in combination with female M8 Snap-In connector); IP65, IP67 (in combination with female M8 Standard connector)	
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)	
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	
Note:	Do not connect or disconnect under load.	

### **Cable Data**

Cable Number:	506
Conductor Size:	0.25 mm <sup>2</sup>
Number of Wires:	5
Minimal Bending Radius (Fixed Inst):	?5xD
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

#### **Technical Data Side 2**

Product Sub Family, Side 2:         Female           Connector Design, Side 2:         Straight           Attachment Type, Side 2:         Snap-Locking           Number of Pins, Side 2:         5           Coding, Side 2:         8           Coding, Side 2:         8           Coding, Side 2:         9           Contact Resistance, Side 2:         10 mOhm           Insulation Resistance, Side 2:         100 mOhm           Mating Cycles, Side 2:         40 °C + 90 °C           Ambient Temperature (Operation), Side 2:         40 °C + 90 °C           Operating Temperature (UL), Side 2:         max + 75 °C           Protection Degree / IP Rating, Side 2**:         P6           Pollution Degree, Side 2:         12 C6 61076-2-104           Pollution Degree, Side 2:         3 cac. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         13 cac. to DIN EN 60664-1 (VDE 0110-1)           Contact Bearer Material, Side 2:         Cu7           Contact Bearer Material, Side 2:         VA 66 GF           Contact Bearer Color, Side 2:         VI 94 V-0           Midded Body Material, Side 2:         Translucent           Filmmability Class (Molded Body), Side 2:         Translucent		
Connector Design, Side 2:         Straight           Attachment Type, Side 2:         Snap-Locking           Number of Pins, Side 2:         5           Coding, Side 2:         B           Contact Resistance, Side 2:         = 10 mOhm           Insulation Resistance, Side 2:         ? 10°9 Ohm           Mating Cycles, Side 2:         2 - 40°C - + 90°C           Operating Temperature (Operation), Side 2:         - 40°C - + 90°C           Operating Temperature (UL), Side 2:         max. + 75°C           Protection Degree / IP Rating, Side 2**:         IP65           Design Standard, Side 2:         IEC 61076-2-104           Pollution Degree, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         Il acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material, Side 2:         Cu/Au           Contact Bearer Material, Side 2:         Cu/Au           Contact Bearer Material, Side 2:         PA 66 GF           Contact Bearer Color, Side 2:         UL 94 V-0           Molded Body Material, Side 2:         TPU           Molded Body Color, Side 2:         Translucent	Product Sub Family, Side 2:	M8 Snap-In
Attachment Type, Side 2:         Snap-Locking           Number of Pins, Side 2:         5           Coding, Side 2:         B           Contact Resistance, Side 2:         = 10 mOhm           Insulation Resistance, Side 2:         ? 10^9 Ohm           Mating Cycles, Side 2:         = 100           Ambient Temperature (Operation), Side 2:         -40 °C - +90 °C           Operating Temperature (UL), Side 2:         max. +75 °C           Protection Degree / IP Rating, Side 2**:         IP65           Design Standard, Side 2:         IEC 61076-2-104           Pollution Degree, Side 2:         3 acc. to DIN EN 60664-1 (VDE 0110-1)           Overvoltage Category, Side 2:         II acc. to DIN EN 60664-1 (VDE 0110-1)           Contact Base Material, Side 2:         CuZh           Contact Bearer Material, Side 2:         Cu/Au           Contact Bearer Material, Side 2:         PA 66 GF           Contact Bearer Color, Side 2:         UL 94 V-0           Molded Body Material, Side 2:         TPU           Molded Body Color, Side 2:         Translucent	Type of Contact / Gender, Side 2:	Female
Number of Pins, Side 2:  Coding, Side 2:  B  Contact Resistance, Side 2:  = 10 mOhm  Insulation Resistance, Side 2:  = 100  Ambient Temperature (Operation), Side 2':  Protection Degree / IP Rating, Side 2**:  IEC 61076-2-104  Pollution Degree, Side 2:  Jacc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2:  Cu/Au  Contact Base Material, Side 2:  Cu/Au  Contact Bearer Material, Side 2:  Contact Bearer Material, Side 2:  Contact Bearer Material, Side 2:  Contact Bearer Color, Side 2:  Contact Bearer Color, Side 2:  Cu/Au  Contact Bearer Color, Sid	Connector Design, Side 2:	Straight
Coding, Side 2: = 10 mOhm  Contact Resistance, Side 2: = 10 mOhm  Insulation Resistance, Side 2: ? 10^9 Ohm  Mating Cycles, Side 2: = 100  Ambient Temperature (Operation), Side 2*: -40 °C - +90 °C  Operating Temperature (UL), Side 2: max. +75 °C  Protection Degree / IP Rating, Side 2**:   IP65  Design Standard, Side 2:   IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2:   II acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2:   CuZn  Contact Plating, Side 2:   Cu/Au  Contact Bearer Material, Side 2:   PA 66 GF  Contact Bearer Material, Side 2:   VI 94 V-0  Molded Body Material, Side 2:   TPU  Molded Body Color, Side 2:   Translucent	Attachment Type, Side 2:	Snap-Locking
Contact Resistance, Side 2: = 10 mOhm  Insulation Resistance, Side 2: ? 10°9 Ohm  Mating Cycles, Side 2: = 100  Ambient Temperature (Operation), Side 2*: -40 °C - +90 °C  Operating Temperature (UL), Side 2: max. +75 °C  Protection Degree / IP Rating, Side 2**: IP65  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuZn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: TPU  Molded Body Color, Side 2: Translucent	Number of Pins, Side 2:	5
Insulation Resistance, Side 2: ? 10/9 Ohm  Mating Cycles, Side 2: = 100  Ambient Temperature (Operation), Side 2*: -40 °C - +90 °C  Operating Temperature (UL), Side 2: max. + 75 °C  Protection Degree / IP Rating, Side 2**: IP65  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: II 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: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Coding, Side 2:	В
Mating Cycles, Side 2: = 100  Ambient Temperature (Operation), Side 2*: -40 °C - +90 °C  Operating Temperature (UL), Side 2: max. +75 °C  Protection Degree / IP Rating, Side 2**: IP65  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuZn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Contact Resistance, Side 2:	= 10 mOhm
Ambient Temperature (Operation), Side 2*: -40 °C - +90 °C  Operating Temperature (UL), Side 2: max. +75 °C  Protection Degree / IP Rating, Side 2**: IP65  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuZn  Contact Plating, Side 2: CuI/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Insulation Resistance, Side 2:	? 10^9 Ohm
Operating Temperature (UL), Side 2: max. + 75 °C  Protection Degree / IP Rating, Side 2**: IP65  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuZn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Mating Cycles, Side 2:	= 100
Protection Degree / IP Rating, Side 2**: IP65  Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuZn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C
Design Standard, Side 2: IEC 61076-2-104  Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuZn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Operating Temperature (UL), Side 2:	max. + 75 °C
Pollution Degree, Side 2: 3 acc. to DIN EN 60664-1 (VDE 0110-1)  Overvoltage Category, Side 2: II acc. to DIN EN 60664-1 (VDE 0110-1)  Contact Base Material, Side 2: CuZn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Protection Degree / IP Rating, Side 2**:	IP65
Overvoltage Category, Side 2: II 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: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Design Standard, Side 2:	IEC 61076-2-104
Contact Base Material, Side 2: CuZn  Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Plating, Side 2: Cu/Au  Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Overvoltage Category, Side 2:	II acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Bearer Material, Side 2: PA 66 GF  Contact Bearer Color, Side 2: Orange  Flammability Class (Contact Bearer), Side 2: UL 94 V-0  Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Contact Base Material, Side 2:	CuZn
Contact Bearer Color, Side 2: Orange Flammability Class (Contact Bearer), Side 2: UL 94 V-0 Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent	Contact Plating, Side 2:	Cu/Au
Flammability Class (Contact Bearer), Side 2: UL 94 V-0 Molded Body Material, Side 2: TPU Molded Body Color, Side 2: Translucent	Contact Bearer Material, Side 2:	PA 66 GF
Molded Body Material, Side 2: TPU  Molded Body Color, Side 2: Translucent	Contact Bearer Color, Side 2:	Orange
Molded Body Color, Side 2: Translucent	Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
• • •	Molded Body Material, Side 2:	TPU
Flammability Class (Molded Body), Side 2: UL 94 HB	Molded Body Color, Side 2:	Translucent
	Flammability Class (Molded Body), Side 2:	UL 94 HB

## **Approvals**

UL-File:	E315587
UL:	UL 2238; cURus

## Safety & Environmental Compliance

RoHS Compliant:	yes

## Resistances

Oil R	esistance:	IEC 60811-2-1	
-------	------------	---------------	--

### **Notes**

Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.	
Note Derating:	Notice derating	

### Variants

Item #	Item Description	Cable Length
934894025	RSM 5-RKM 5-506/0,3 M	0.3 m
934894026	RSM 5-RKM 5-506/0,6 M	0.6 m
934894027	RSM 5-RKM 5-506/1 M	1 m
934894028	RSM 5-RKM 5-506/2 M	2 m
934894029	RSM 5-RKM 5-506/3 M	3 m
934894030	RSM 5-RKM 5-506/5 M	5 m
934894031	RSM 5-RKM 5-506/10 M	10 m
934894032	RSM 5-RKM 5-506/15 M	15 m

#### © 2021 Belden, Inc

#### All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

## **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Belden Wire & Cable:

934894027 934894028 934894029 934894030 934894031 934894032