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M12 Hybrid Connectors



Be certain. Belden.

M12 Hybrid Connectors

The M12 Hybrid Connectors' innovative technology combines reliable power and data transmission while meeting industry Y-coding standards according to IEC 61076-2-113.

Together with Lumberg Automation's LioN-Power system, featuring I/O-Link and multiprotocol capability, the M12 Hybrid Connectors provide a complete connection solution with the reduced size needed for today's smaller and more intelligent devices.



The small size and light weight of the M12 Hybrid Connectors ease installation and maintenance efforts, while the high performance shielding concept enables more reliable power and data transmission. Up until now, engineers and installers had to use two separate connections to transfer both data and power.

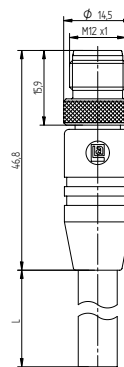
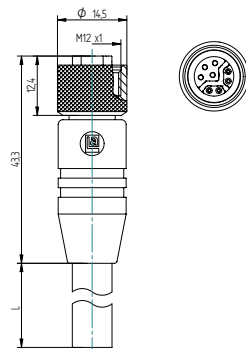
The M12 Hybrid Connectors revolutionize connectivity by providing one interface that simultaneously transfers power up to 2 x 6A and data with speeds up to 100 Mbit/s.

M12 Hybrid Connectors are built to withstand harsh environments, including exposure to any kind of mechanical stress, such as the shock and vibration that comes with operating in high pressure cleaning processes (IP69K). The M12 Hybrid Connectors can handle the daily rigors of use with heavy equipment in the machine building, food and beverage, automotive, material handling, industrial automation and building automation industries.

M12 Hybrid Single-Ended Overmolded Cordsets, 8-Pole (Y-Coded)

Technical Information

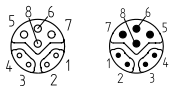
Product Description		
Order Designation	RKTS 8Y	RSTS 8Y
		
Description	M12 Hybrid single-ended molded cordset, female straight, 8-pole, Y-coded, 360° shielded, screw attachment transmits power and data (Fast Ethernet, 100 Mbit/s, Cat 5)	M12 Hybrid single-ended molded cordset, male straight, 8-pole, Y-coded, 360° shielded, screw attachment transmits power and data (Fast Ethernet, 100 Mbit/s, Cat 5)
Type Contact	Female	Male
Number of Contacts	8 Pole (4 + 4)	
Standard	IEC 61076-2-113	
Construction Type	Y-Coded	
Technical Data		
Rated Voltage	50 V AC/DC	
Rated Current	0.5 A (data) / 6 A (power)	
Rated Impulse Voltage	0.8 kV	
Pollution Degree	3 acc. to DIN EN 60664-1 (VDE 0110-1)	
Environmental Conditions		
Protection Class (IEC 60529)	IP65, IP67, IP69K (only when mated to associated counterparts)	
Temperature Range (connector)	-40 °C to +90 °C, notice derating	
Technical Drawing		



L = Standard length of cable





































Pin Assignment

8-pin, Y-coded



- 1 = white/orange
- 2 = orange
- 3 = white/green
- 4 = green
- 5 = blue
- 6 = white
- 7 = brown
- 8 = black

Order Information




Order No.	Order Designation	No. of Pins	Jacket	Conductor Size	Characteristics
934845001	RKTS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934845002	RKTS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934845003	RKTS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934845004	RKTS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934845005	RKTS 8Y-922/20 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934845006	RKTS 8Y-922/25 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934847001	RSTS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934847002	RSTS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934847003	RSTS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934847004	RSTS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934847005	RSTS 8Y-922/20 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934847006	RSTS 8Y-922/25 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  

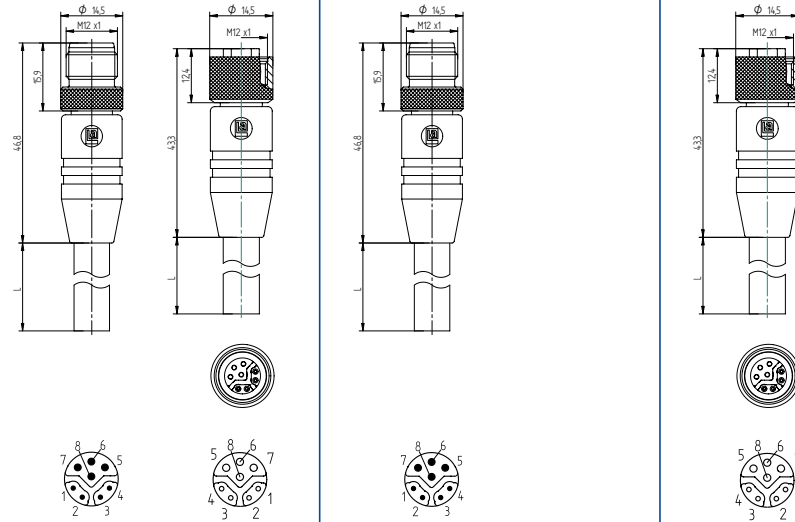
Special circuitry available upon request

Use of the product in aggressive media must be checked on a case-by-case basis.
Subject to technical modification.

M12 Hybrid Double-Ended Overmolded Cordsets, 8-Pole (Y-Coded)

Technical Information

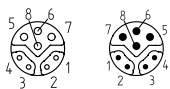
Product Description			
Order Designation	RSTS 8Y-RKTS 8Y	RSTS 8Y-RSTS 8Y	RKTS 8Y-RKTS 8Y
			
Description	M12 Hybrid double-ended molded cordset, male straight to female straight, 8-pole, Y-coded, 360° shielded, screw attachment transmits power and data (Fast Ethernet, 100 Mbit/s, Cat 5).	M12 Hybrid double-ended molded cordset, male straight to male straight, 8-pole, Y-coded, 360° shielded, screw attachment transmits power and data (Fast Ethernet, 100 Mbit/s, Cat 5).	M12 Hybrid double-ended molded cordset, female straight to female straight, 8-pole, Y-coded, 360° shielded, screw attachment transmits power and data (Fast Ethernet, 100 Mbit/s, Cat 5).
Type Contact	Male to Female	Male to Male	Female to Female
Number of Contacts	8 Pole (4 + 4)		
Standard	IEC 61076-2-113		
Construction Type	Y-Coded		
Technical Data			
Rated Voltage	50 V AC/DC		
Rated Current	0.5 A (data) / 6 A (power)		
Rated Impulse Voltage	0.8 kV		
Pollution Degree	3 acc. to DIN EN 60664-1 (VDE 0110-1)		
Environmental Conditions			
Protection Class (IEC 60529)	IP65, IP67, IP69K (only when mated to associated counterparts)		
Temperature Range (connector)	-40 °C to +90 °C, notice derating		
Technical Drawing			



L = Standard length of cable









































































Pin Assignment

8-pin, Y-coded





- 1 = white/orange
- 2 = orange
- 3 = white/green
- 4 = green
- 5 = blue
- 6 = white
- 7 = brown
- 8 = black

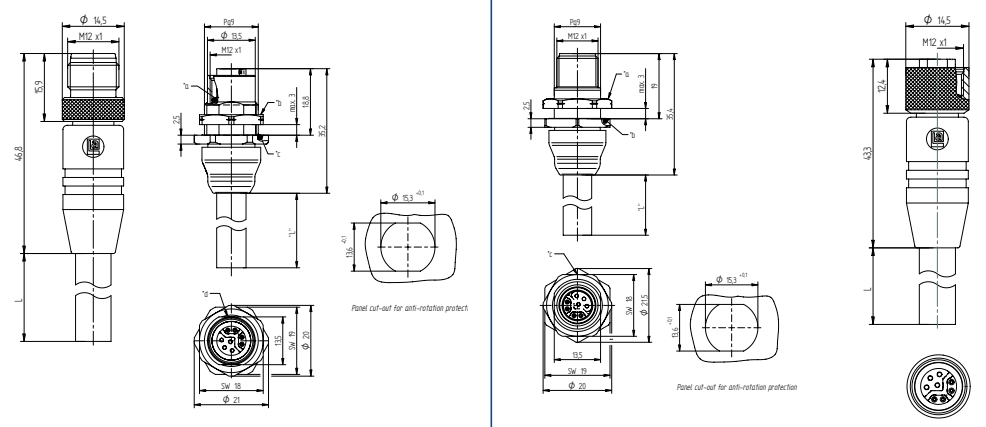
Order Information

Order No.	Order Designation	No. of Pins	Jacket	Conductor Size	Characteristics
934966001	RSTS 8Y-RKTS 8Y-922/0.3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966002	RSTS 8Y-RKTS 8Y-922/0.6 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966003	RSTS 8Y-RKTS 8Y-922/1 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966004	RSTS 8Y-RKTS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966005	RSTS 8Y-RKTS 8Y-922/3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966006	RSTS 8Y-RKTS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966007	RSTS 8Y-RKTS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966008	RSTS 8Y-RKTS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966101	RKTS 8Y-RKTS 8Y-922/0.3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966102	RKTS 8Y-RKTS 8Y-922/0.6 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966103	RKTS 8Y-RKTS 8Y-922/1 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966104	RKTS 8Y-RKTS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966105	RKTS 8Y-RKTS 8Y-922/3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966106	RKTS 8Y-RKTS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966107	RKTS 8Y-RKTS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966108	RKTS 8Y-RKTS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966301	RSTS 8Y-RSTS 8Y-922/0,3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966302	RSTS 8Y-RSTS 8Y-922/0,6 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966303	RSTS 8Y-RSTS 8Y-922/1 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966304	RSTS 8Y-RSTS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966305	RSTS 8Y-RSTS 8Y-922/3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966306	RSTS 8Y-RSTS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966307	RSTS 8Y-RSTS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966308	RSTS 8Y-RSTS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  

M12 Hybrid Double-Ended Overmolded Cordsets, 8-Pole (Y-Coded)

Technical Information

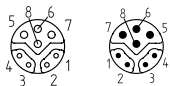
Product Description		
Order Designation	RSTS 8Y-RKHS 8Y	RSHS 8Y-RKTS 8Y
		
Description	M12 Hybrid double-ended molded cordset, male straight to female straight receptacle, 8-pole, Y-coded, 360° shielded, screw attachment transmits power and data (Fast Ethernet, 100 Mbit/s, Cat 5).	M12 Hybrid double-ended molded cordset, male straight receptacle to female straight, 8-pole, Y-coded, 360° shielded, screw attachment transmits power and data (Fast Ethernet, 100 Mbit/s, Cat 5).
Type Contact	Male to Female	Male to Female
Number of Contacts	8 Pole (4 + 4)	
Standard	IEC 61076-2-113	
Construction Type	Y-Coded	
Technical Data		
Rated Voltage	50 V AC/DC	
Rated Current	0.5 A (data) / 6 A (power)	
Rated Impulse Voltage	0.8 kV	
Pollution Degree	3 acc. to DIN EN 60664-1 (VDE 0110-1)	
Environmental Conditions		
Protection Class (IEC 60529)	IP65, IP67, IP69K (only when mated to associated counterparts)	
Temperature Range (connector)	-40 °C to +90 °C, notice derating	
Technical Drawing		



L = Standard length of cable

















































Pin Assignment

8-pin, Y-coded




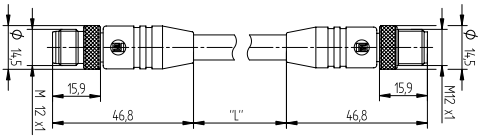
- 1 = white/orange
- 2 = orange
- 3 = white/green
- 4 = green
- 5 = blue
- 6 = white
- 7 = brown
- 8 = black

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Conductor Size	Characteristics
934966201	RSTS 8Y-RKHS 8Y-922/0.3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966202	RSTS 8Y-RKHS 8Y-922/0.6 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966203	RSTS 8Y-RKHS 8Y-922/1 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966204	RSTS 8Y-RKHS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966205	RSTS 8Y-RKHS 8Y-922/3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966206	RSTS 8Y-RKHS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966207	RSTS 8Y-RKHS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966208	RSTS 8Y-RKHS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966501	RSHS 8Y-RKTS 8Y-922/0.3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966502	RSHS 8Y-RKTS 8Y-922/0.6 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966503	RSHS 8Y-RKTS 8Y-922/1 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966504	RSHS 8Y-RKTS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966505	RSHS 8Y-RKTS 8Y-922/3 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966506	RSHS 8Y-RKTS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966507	RSHS 8Y-RKTS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934966508	RSHS 8Y-RKTS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  



M12 Hybrid Double-Ended Overmolded Cordsets, 4-Pole (D-Coded) to 8-Pole (Y-Coded)

Technical Information

























Product Description	
Order Designation	RSTS 4D-RSTS 8Y
	
Description	M12 Hybrid adapter double-ended molded cordset, male straight 4-pole, D-coded to male straight, 8-pole, Y-coded, 360° shielded, screw attachment transmits data (Fast Ethernet, 100 Mbit/s, Cat 5).
Type Contact	Male to Male
Number of Contacts	4 Pole (D-Coded) 8-Pole (Y-Coded)
Standard	RSTS 4D: IEC 61076-2-101 / RSTS 8Y: IEC 61076-2-113
Construction Type	D-Coded / Y-Coded
Technical Data	
Rated Voltage	50 V AC/DC
Rated Current	0.5 A (data) / 6 A (power)
Rated Impulse Voltage	0.8 kV
Pollution Degree	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Environmental Conditions	
Protection Class (IEC 60529)	IP65, IP67, IP69K (only when mated to associated counterparts)
Temperature Range (connector)	-25 °C to +80 °C
Technical Drawing	
	

L = Standard length of cable





































Pin Assignment

4-pin, D-coded		8-pin, Y-coded			
	1 = white/orange 2 = white/green 3 = orange 4 = green		1 = white/orange 2 = orange 3 = white/green 4 = green	5 = n.c. 6 = n.c. 7 = n.c. 8 = n.c.	

Order Information

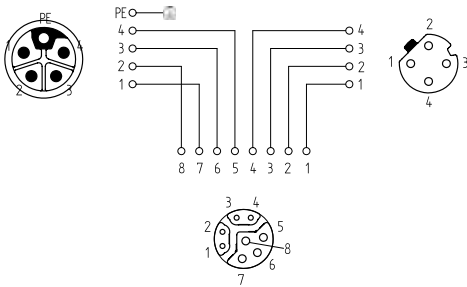
Order No.	Order Designation	No. of Pins	Jacket	Conductor Size	Characteristics
934967001	RSTS 4D-RSTS 8Y-484/0,3 M	4	PUR, black	AWG 26	  
934967002	RSTS 4D-RSTS 8Y-484/0,6 M	4	PUR, black	AWG 26	  
934967003	RSTS 4D-RSTS 8Y-484/1 M	4	PUR, black	AWG 26	  
934967004	RSTS 4D-RSTS 8Y-484/2 M	4	PUR, black	AWG 26	  
934967005	RSTS 4D-RSTS 8Y-484/3 M	4	PUR, black	AWG 26	  
934967006	RSTS 4D-RSTS 8Y-484/5 M	4	PUR, black	AWG 26	  
934967007	RSTS 4D-RSTS 8Y-484/10 M	4	PUR, black	AWG 26	  
934967008	RSTS 4D-RSTS 8Y-484/15 M	4	PUR, black	AWG 26	  

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Conductor Size	Characteristics
934925001	RSHS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934925002	RSHS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934925003	RSHS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934925004	RSHS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934925005	RSHS 8Y-922/20 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934925006	RSHS 8Y-922/25 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934926001	RKHS 8Y-922/2 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934926002	RKHS 8Y-922/5 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934926003	RKHS 8Y-922/10 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934926004	RKHS 8Y-922/15 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934926005	RKHS 8Y-922/20 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  
934926006	RKHS 8Y-922/25 M	8	PUR, black	4x26AWG (data) and 4x0.75mm ² (power)	  

Wiring Diagramm

ASBS M12 YLD



Order Information

Order No.	Order Designation	Characteristics
934928001	ASBS 2 M12 YLD	

