M12 Circular Connectors



Be certain. Belden.

M12 Circular Connectors

These connectors have been used routinely for decades worldwide to connect sensors/ actuators with control cabinets or I/O modules. Protected against dust and moisture and resistant to many oils and chemical substances, the M12 connectors provide reliable, long-lasting wiring solutions.

Product Features

- Standardized connector formats, A-, B-, D-, U-, and X-coding
- Wide range of integrated connectors, field attachable and overmolded connectors – with and without LED function indicator, unshielded and shielded
- 3, 4, 5, 6, 8, and 12-pin versions
- Various cable versions
- Versions with degrees of protection IP65, IP67, IP68 to IP69K

Benefits

- Flexible and robust designs offer reliable solutions with a long service life
- Standardized M12 connector technology allows for quick assembly and wiring, increasing productivity
- Low installation workload and simplified maintenance (screwing on/screwing off) save time and money

Applications

Sensor and actuator applications in automation technology in fields ranging from machine and system construction, and transport, to renewable energy and building automation.

Among others, connection of:

- Inductive/capacitive proximity switches
- Light barriers
- Rotary encoders/position encoders
- Valve clusters
- Servomotors
- Machine vision lighting and lamps
 - Communication interface for I/O modules
 - Field bus/network
 - Connection of cameras, information systems
 - Door control for superordinate unit

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Standard Female Connectors

Technical Information

Product Description	200	2/2// 22		
Order Designation	RKT	RKT/LED		
Description	Actuator/sensor cordset, M12 overmolded female connector, straight, with self-locking screw coupling, 8 to 6-pin version: for connection to plug-in miniature sensor distribution unit type SBS, 12-pin: for connection to plug-in actuator/sensor distribution unit type ASBSM	Actuator/sensor cordset, M12 overmolded female connector, straight with LED operation and function indicators, self-locking screw coupling		
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL			
Technical Data				
Ambient Temperature	-40 °C to +90 °C, mind	cable temperature range		
Housing Material/Grip	Т	PU		
Contact Holder Material	Т	PU		
Contact Material/Surface Finish	CuSn (8 and 12-pin: CuZn), gold over nickel plating	CuSn, nickel underlay and gold-plated		
Screw Coupling Material	CuZn, nic	ckel-plated		
Mechanical Data				
Degree of Protection	IP67 (only when mated to	o associated counterparts)		
Electrical Data				
Contact Resistance	≤5	mΩ		
Rated Voltage	3 to 4-pin 250 V, 5-pin 60 V (UL 30 V AC/DC), 6 to 12-pin 30 V	30 V		
Rated Current	3 to 5-pin 4 A, 6 to 8-pin 2 A, 12-pin 1.5 A	4 A		
Pollution Degree		3		
Technical Drawing				
	Ø 155 M 12 M M 12 M Ø 105 Ø 105 Ø 105	9 K5		

*a = 0-ring • *b = Protective sleeve assembly • L = Standard length of cable RKT/LED: B = Green operation indicator • F = Yellow function indicator

Pin Assignment

3-pin			4-pin			5-pin		6-pin		
3 0 0	1 = brown 2 = n.c. 3 = blue 4 = black		3004	1 = brown 2 = white 3 = blue 4 = black		3 4	1 = brown 2 = white 3 = blue 4 = black 5 = green/yellow (RKT 5-56/M = gray)	3 0 0 0 7 2 8 1	1 = white 2 = green 3 = yellow 4 = gray	5 = brown 6 = n.c. 7 = blue 8 = n.c.
8-pin			12-pin							
3 0 0 0 0 0 7	1 = white 2 = brown 3 = green 4 = yellow	5 = gray 6 = pin 7 = blue 8 = shield	5 6 7 4 11 0 0 0 0 12 8 3 2 10 1	1 = brown 2 = blue 3 = white 4 = green	5 = pink 6 = yellow 7 = black 8 = gray	9 = red 10 = violet 11 = gray/p 12 = red/bl				

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
11363	RKT 4-3-06/2 M	3	PVC, orange	UL 🖦
11364	RKT 4-3-06/5 M	3	PVC, orange	
11362	RKT 4-3-06/10 M	3	PVC, orange	
18170	RKT 4-3-224/2 M	3	PUR, halogen-free, black	UL 🍗 🖦 🥽
15730	RKT 4-3-224/5 M	3	PUR, halogen-free, black	
15729	RKT 4-3-224/10 M	3	PUR, halogen-free, black	
71267	RKT 4-3-260/2 M	3	PUR, halogen-free, orange	
71268	RKT 4-3-260/5 M	3	PUR, halogen-free, orange	
71269	RKT 4-3-260/10 M	3	PUR, halogen-free, orange	
303	RKT 4-3-294/2 M	3	PVC, black	
8927	RKT 4-3-294/5 M	3	PVC, black	
304	RKT 4-3-294/10 M	3	PVC, black	
11348	RKT 4-07/2 M	4	PVC, orange	UL 🖦
11349	RKT 4-07/5 M	4	PVC, orange	
11347	RKT 4-07/10 M	4	PVC, orange	
11355	RKT 4-225/2 M	4	PUR, halogen-free, black	UL 🍗 🛌 ლ
11356	RKT 4-225/5 M	4	PUR, halogen-free, black	
18222	RKT 4-225/10 M	4	PUR, halogen-free, black	
11357	RKT 4-251/2 M	4	PUR, halogen-free, orange	UL V
11358	RKT 4-251/5 M	4	PUR, halogen-free, orange	
25703	RKT 4-251/10 M	4	PUR, halogen-free, orange	
53582	RKT 4-265/2 M	4	PUR, halogen-free, gray	(*************************************
58734	RKT 4-265/5 M	4	PUR, halogen-free, gray	-
88351	RKT 4-265/10 M	4	PUR, halogen-free, gray	
393	RKT 4-295/2 M	4	PVC, black	[2222]
76494	RKT 4-295/5 M	4	PVC, black	-
76495	RKT 4-295/10 M	4	PVC, black	
699	RKT 4-500/2 M	4	PUR, halogen-free, black	
700	RKT 4-500/5 M	4	PUR, halogen-free, black	
701	RKT 4-500/10 M	4	PUR, halogen-free, black	
52386	RKT 4-602/2 M	4	TPE, yellow	UL 🛌
44836	RKT 4-602/5 M	4	TPE, yellow	
11159	RKT 4-602/10 M	4	TPE, yellow	
11381	RKT 5-56/2 M	5	PVC, orange	UL 🖦
11382	RKT 5-56/5 M	5	PVC, orange	
11380	RKT 5-56/10 M	5	PVC, orange	1
109187	RKT 5-72/2 M	5	PUR, black	
28810	RKT 5-72/5 M	5	PUR, black	
86359	RKT 5-72/10 M	5	PUR, black	-
13359	RKT 5-87/2 M	5	PUR, black	
13357	RKT 5-87/5 M	5	PUR, black	
13358	RKT 5-87/10 M	5	PUR, black	-

Special circuitry available upon request

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Standard Female Connectors (continued)

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
47084	RKT 5-226/2 P89	5	PUR, halogen-free, black	UL 🍗 🥌 🥶
46973	RKT 5-226/5 P89	5	PUR, halogen-free, black	
934637156	RKT 5-226/10 P89	5	PUR, halogen-free, black	
11373	RKT 5-228/2 M	5	PUR, halogen-free, black	UL 🍗 🛌 🚬
11374	RKT 5-228/5 M	5	PUR, halogen-free, black	
17046	RKT 5-228/10 M	5	PUR, halogen-free, black	1
11378	RKT 5-259/2 M	5	PUR, halogen-free, orange	UL 🍗 🧫 🧨
11379	RKT 5-259/5 M	5	PUR, halogen-free, orange	
30091	RKT 5-259/10 M	5	PUR, halogen-free, orange	1
51487	RKT 5-289/2 M	5	PVC, black	\
51488	RKT 5-289/5 M	5	PVC, black	
51489	RKT 5-289/10 M	5	PVC, black	1
4280	RKT 5-296/2 M	5	PVC, black	[[]
1177	RKT 5-296/5 M	5	PVC, black	
11158	RKT 5-296/10 M	5	PVC, black	1
46898	RKT 8-6-268/2 M	6	PUR, halogen-free, orange	
15718	RKT 8-6-268/5 M	6	PUR, halogen-free, orange	
15727	RKT 8-6-268/10 M	6	PUR, halogen-free, orange	1
62977	RKT 8-6-337/2 M	6	PUR, halogen-free, black	UL 🍗 🛌 ლ
62982	RKT 8-6-337/5 M	6	PUR, halogen-free, black	
62978	RKT 8-6-337/10 M	6	PUR, halogen-free, black	1
11387	RKT 8-09/2 M	8	PUR, orange	(H+1))
11388	RKT 8-09/5 M	8	PUR, orange	
11386	RKT 8-09/10 M	8	PUR, orange	1
47077	RKT 8-282/2 M	8	PUR, halogen-free, black	+>)) UL \
46772	RKT 8-282/5 M	8	PUR, halogen-free, black	
60548	RKT 8-282/10 M	8	PUR, halogen-free, black	1
97356	RKT 8-344/2 M	8	PUR, halogen-free, black	UL E
97357	RKT 8-344/5 M	8	PUR, halogen-free, black	
80411	RKT 8-344/10 M	8	PUR, halogen-free, black	1
105729	RKT 12-346/2 M	12	PUR, halogen-free, black	UL E
103590	RKT 12-346/5 M	12	PUR, halogen-free, black	
104142	RKT 12-346/10 M	12	PUR, halogen-free, black	1

Special circuitry available upon request

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
11393	RKT/LED A 4-3-06/2 M	3	PVC, orange	UL 🖦
11394	RKT/LED A 4-3-06/5 M	3	PVC, orange	
11392	RKT/LED A 4-3-06/10 M	3	PVC, orange	1
43593	RKT/LED A 4-3-224/2 M	3	PUR, halogen-free, black	UL 🍗 🛌 🚛
17615	RKT/LED A 4-3-224/5 M	3	PUR, halogen-free, black	
27451	RKT/LED A 4-3-224/10 M	3	PUR, halogen-free, black	1
42752	RKT/LED A 4-3-260/2 M	3	PUR, halogen-free, orange	
42753	RKT/LED A 4-3-260/5 M	3	PUR, halogen-free, orange	
71293	RKT/LED A 4-3-260/10 M	3	PUR, halogen-free, orange	1
11402	RKT/LED F 4-07/2 M	4	PVC, orange	UL 🛌
11403	RKT/LED F 4-07/5 M	4	PVC, orange	
11401	RKT/LED F 4-07/10 M	4	PVC, orange	1
43741	RKT/LED F 4-225/2 M	4	PUR, halogen-free, black	UL 🍗 📻 🖓
43742	RKT/LED F 4-225/5 M	4	PUR, halogen-free, black	
43739	RKT/LED F 4-225/10 M	4	PUR, halogen-free, black	1

LED A: PNP make contact, LED F: PNP break/make contact Special circuitry available upon request

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Standard Female Connectors

Product Description				
Order Designation	RKWT	RKWT/LED		
Description	Actuator/sensor cordset, M12 overmolded female connector, angled, with self-locking screw coupling, 8 to 6-pin version: for connection to plug-in miniature sensor distribution unit type SBS	Actuator/sensor cordset, M12 overmolded female connector, angled, with LED operation and function indicators, self-locking screw coupling		
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL			
Technical Data				
Ambient Temperature	-40 °C to +90 °C, mind	cable temperature range		
Housing Material/Grip	Т	PU		
Contact Holder Material	T	PU		
Contact Material/Surface Finish	CuSn (8 and 12-pin CuZn), gold over nickel plating	CuSn, nickel underlay and gold-plated		
Screw Coupling Material	CuZn, nic	kel-plated		
Mechanical Data				
Degree of Protection	IP65, IP67, IP68 (2 h at 10 bar; only w	hen mated to associated counterparts)		
Electrical Data				
Contact Resistance	≤5	mΩ		
Rated Voltage	3 to 4-pin 240 V, 5-pin 60 V, 6 to 12-pin 30 V	30 V		
Rated Current	3 to 5-pin 4 A, 6 to 12-pin 2 A	4 A		
Pollution Degree		3		
Technical Drawing				
	26.5 12 1.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5 14.5	26.5 12 14.5 Oder npn On.c. On.c		

^{*}a = 0-ring • *b = Protective sleeve assembly • B = Operation indicator (green) • F = Function indicator (yellow) • F2 = Function indicator (white) • L = Standard length of cable

3-pin	4-pin	5-pin	6-pin
1 = brown 2 = n.c. 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = green/yellow (RKT 5-56/M = gray)	5 6 1 = white 5 = brown 2 = green 6 = n.c. 3 = yellow 7 = blue 4 = gray 8 = n.c.

8-pin			12-pin			
3 0 0 0 7 2 8 1	1 = white 2 = brown 3 = green 4 = yellow	5 = gray 6 = pink 7 = blue 8 = shield	5 6 7 4 11 0 0 0 12 8 3 0 0 0 9	1 = brown 2 = blue 3 = white 4 = green	5 = pink 6 = yellow 7 = black 8 = gray	9 = red 10 = violet 11 = gray/pink 12 = red/blue

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
11449	RKWT 4-3-06/2 M	3	PVC, orange	UL 🖦
11450	RKWT 4-3-06/5 M	3	PVC, orange	UL 🖦
11448	RKWT 4-3-06/10 M	3	PVC, orange	UL 🖦
43595	RKWT 4-3-224/2 M	3	PUR, halogen-free, black	UL 🗽 🖦
43597	RKWT 4-3-224/5 M	3	PUR, halogen-free, black	UL 🗽 🕳 🥽
29165	RKWT 4-3-224/10 M	3	PUR, halogen-free, black	UL 🍗 느 🥽
71290	RKWT 4-3-260/2 M	3	PUR, halogen-free, orange	CHUL W
71291	RKWT 4-3-260/5 M	3	PUR, halogen-free, orange	UL P
71292	RKWT 4-3-260/10 M	3	PUR, halogen-free, orange	UL P
11436	RKWT 4-07/2 M	4	PVC, orange	UL 🖦
11437	RKWT 4-07/5 M	4	PVC, orange	UL 🛌
11435	RKWT 4-07/10 M	4	PVC, orange	UL 🖦
11441	RKWT 4-225/2 M	4	PUR, halogen-free, black	UL 🗽 🕳 🥽
11442	RKWT 4-225/5 M	4	PUR, halogen-free, black	UL 🗽 🕳 🥽
18158	RKWT 4-225/10 M	4	PUR, halogen-free, black	UL 🗽 🕳 🥽
11443	RKWT 4-251/2 M	4	PUR, halogen-free, orange	CF UL
11444	RKWT 4-251/5 M	4	PUR, halogen-free, orange	UL P
27094	RKWT 4-251/10 M	4	PUR, halogen-free, orange	UL P

Special circuitry available upon request

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Standard Female Connectors (continued)

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
11463	RKWT 5-56/2 M	5	PVC, orange	UL 🏲 📥 🧲
11464	RKWT 5-56/5 M	5	PVC, orange	UL 🍗 🕳 🥽
11462	RKWT 5-56/10 M	5	PVC, orange	UL Y
40212	RKWT 5-228/2 M	5	PUR, halogen-free, black	UL Y =
29637	RKWT 5-228/5 M	5	PUR, halogen-free, black	
17977	RKWT 5-228/10 M	5	PUR, halogen-free, black	
10437	RKWT 5-259/2 M	5	PUR, halogen-free, orange	
58901	RKWT 5-259/5 M	5	PUR, halogen-free, orange	
5800	RKWT 5-259/10 M	5	PUR, halogen-free, orange	
46899	RKWT 8-6-268/2 M	6	PUR, halogen-free, orange	
17128	RKWT 8-6-268/5 M	6	PUR, halogen-free, orange	
46900	RKWT 8-6-268/10 M	6	PUR, halogen-free, orange	
62983	RKWT 8-6-337/2 M	6	PUR, halogen-free, black	
62980	RKWT 8-6-337/5 M	6	PUR, halogen-free, black	
62981	RKWT 8-6-337/10 M	6	PUR, halogen-free, black	
13710	RKWT 8-09/2 M	8	PUR, orange	
13709	RKWT 8-09/5 M	8	PUR, orange	
13708	RKWT 8-09/10 M	8	PUR, orange	
64546	RKWT 8-282/2 M	8	PUR, halogen-free, black	
64547	RKWT 8-282/5 M	8	PUR, halogen-free, black	
60551	RKWT 8-282/10 M	8	PUR, halogen-free, black	

Special circuitry available upon request

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
11471	RKWT/LED A 4-3-06/2 M	3	PVC, orange	UL 🖦
11472	RKWT/LED A 4-3-06/5 M	3	PVC, orange	UL 🖦
11470	RKWT/LED A 4-3-06/10 M	3	PVC, orange	UL 🖦
11477	RKWT/LED A 4-3-224/2 M	3	PUR, halogen-free, black	UL P
11478	RKWT/LED A 4-3-224/5 M	3	PUR, halogen-free, black	UL Y = C
11475	RKWT/LED A 4-3-224/10 M	3	PUR, halogen-free, black	UL Y
38795	RKWT/LED A 4-3-260/2 M	3	PUR, halogen-free, orange	
17572	RKWT/LED A 4-3-260/5 M	3	PUR, halogen-free, orange	
14157	RKWT/LED A 4-3-260/10 M	3	PUR, halogen-free, orange	
11539	RKWT/LED P 4-07/2 M	4	PVC, orange	UL C
11540	RKWT/LED P 4-07/5 M	4	PVC, orange	UL 🛌
11538	RKWT/LED P 4-07/10 M	4	PVC, orange	UL 🛌
11544	RKWT/LED P 4-225/2 M	4	PUR, halogen-free, black	UL 🍗 🛌 🥶
11545	RKWT/LED P 4-225/5 M	4	PUR, halogen-free, black	UL Y
16978	RKWT/LED P 4-225/10 M	4	PUR, halogen-free, black	UL Y
11547	RKWT/LED P 4-251/2 M	4	PUR, halogen-free, orange	
11548	RKWT/LED P 4-251/5 M	4	PUR, halogen-free, orange	
11546	RKWT/LED P 4-251/10 M	4	PUR, halogen-free, orange	
75305	RKWT/LED W 4-265/2 M	4	PUR, halogen-free, black	
75316	RKWT/LED W 4-265/5 M	4	PUR, halogen-free, black	UL M = C
85877	RKWT/LED W 4-265/10 M	4	PUR, halogen-free, black	UL M

Contact (yellow-green), LED P: PNP break/make contact (yellow-yellow-green antivalent), LED W: PNP break/make contact (yellow-white-green antivalent) Special circuitry available upon request

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Shielded Female Connectors

Technical Information

Order Designation	RKTS	RKWTS
Description	Actuator/sensor cordset, M12 overmolded female connector, straight, with screw coupling, shield connected to knurled nut	Actuator/sensor cordset, M12 overmolded female connector, 360° shield connected to knurled nut, angled, with screw coupling
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	
Technical Data		
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range
Housing Material/Grip	Ti	PU
Contact Holder Material	PBT (8-pin TPU)	PBT
Contact Material/Surface Finish	CuSn (4 and 5-pin), CuZn (8	-pin), gold over nickel plating
Screw Coupling Material	CuZn, nic	kel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated to associated counterparts)	IP67, IP68, IP69K (only when mated to associated counterparts)
Electrical Data		
Contact Resistance	≤ 5	mΩ
Rated Voltage	4-pin 250 V, 5-pi	in 60 V, 8-pin 30 V
Rated Current	4 and 5-pin	4 A, 8-pin 2 A
Pollution Degree		3
Technical Drawing		
	M12x1 14.5	\$\frac{\phi}{28}\$

^{*}a = 0-ring • L = Standard length of cable

Pin Assignment

4-pin	5-pin	8-pin
1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = gray	1 = white 5 = gray 2 = brown 6 = pink 3 = green 7 = blue 4 = yellow 8 = red

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
11411	RKTS 4-182/2 M	4	PVC, orange	 + +1))
11412	RKTS 4-182/5 M	4	PVC, orange	
11410	RKTS 4-182/10 M	4	PVC, orange	
49203	RKTS 4-288/2 M	4	PUR, halogen-free, black	UL (***)
49205	RKTS 4-288/5 M	4	PUR, halogen-free, black	
49202	RKTS 4-288/10 M	4	PUR, halogen-free, black	
11417	RKTS 5-183/2 M	5	PVC, orange	 + +1))
11418	RKTS 5-183/5 M	5	PVC, orange	
11416	RKTS 5-183/10 M	5	PVC, orange	
49231	RKTS 5-298/2 M	5	PUR, halogen-free, black	UL (100 (100 (100 (100 (100 (100 (100 (10
49232	RKTS 5-298/5 M	5	PUR, halogen-free, black	
49230	RKTS 5-298/10 M	5	PUR, halogen-free, black	
11423	RKTS 8-184/2 M	8	PVC, orange	 + +1))
11424	RKTS 8-184/5 M	8	PVC, orange	
11422	RKTS 8-184/10 M	8	PVC, orange	
49261	RKTS 8-299/2 M	8	PUR, halogen-free, black	UL (100 (100 (100 (100 (100 (100 (100 (10
49262	RKTS 8-299/5 M	8	PUR, halogen-free, black	
49260	RKTS 8-299/10 M	8	PUR, halogen-free, black	
934703004	RKWTS 4-182/2 M	4	PVC, orange	 + +1))
934703007	RKWTS 4-182/5 M	4	PVC, orange	
934703002	RKWTS 4-182/10 M	4	PVC, orange	
934703011	RKWTS 4-288/2 M	4	PUR, halogen-free, black	UL (100 (100 (100 (100 (100 (100 (100 (10
934703014	RKWTS 4-288/5 M	4	PUR, halogen-free, black	
934703009	RKWTS 4-288/10 M	4	PUR, halogen-free, black	
934703017	RKWTS 5-183/2 M	5	PVC, orange	
934703018	RKWTS 5-183/5 M	5	PVC, orange	
934703016	RKWTS 5-183/10 M	5	PVC, orange	
934703022	RKWTS 5-298/2 M	5	PUR, halogen-free, black	UL (***)
934703025	RKWTS 5-298/5 M	5	PUR, halogen-free, black	
934703020	RKWTS 5-298/10 M	5	PUR, halogen-free, black	
934703026	RKWTS 8-184/2 M	8	PVC, orange	 + ->))
934703027	RKWTS 8-184/5 M	8	PVC, orange	
9771	RKWTS 8-184/10 M	8	PVC, orange	1
934703030	RKWTS 8-299/2 M	8	PUR, halogen-free, black	UL (***))
934703032	RKWTS 8-299/5 M	8	PUR, halogen-free, black	
934703028	RKWTS 8-299/10 M	8	PUR, halogen-free, black	┥

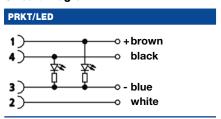
Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Female Connectors for Food & Beverage – PVC

Product Description						
Order Designation	PRKT	PRKT/LED				
Description	Actuator/sensor cordset, M12 overmolded female connector, straight, with self-locking screw coupling, stainless steel hexagonal nut with self-locking screw coupling, with LED operation and fundicators, stainless steel hexagonal nut					
Note	Especially suitable for use in the food & beverage industry.					
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101					
Approvals	-					
Technical Data						
Ambient Temperature	-25 °C to +70 °C, mind	cable temperature range				
Housing Material/Grip	P	VC				
Contact Holder Material	P	VC				
Contact Material/Surface Finish	CuSn, gold ove	er nickel plating				
Screw Coupling Material	Stainle	ss steel				
Mechanical Data						
Degree of Protection	IP67, IP69K (only when mated to associated counterparts)					
Electrical Data						
Contact Resistance	≤5	mΩ				
Rated Voltage	4-pin 250 V, 5-pin 60 V	30 V				
Rated Current	4	A				
Pollution Degree		3				
Technical Drawing						
	MONTH STATE OF THE	Mac to the state of the state o				

 $^{^*}a = 0 - \text{ring} \bullet ^*b = \text{Protective sleeve assembly} \bullet L = \text{Standard length of cable} \bullet B = 0 \text{peration indicator (green)} \bullet F = \text{Function indicator}$

4-pin 5-pin 1 = brown 2 = white 3 = blue 4 = black 5-pin 1 = brown 2 = white 3 = blue 4 = black 5 = gray

Circuit Diagram



Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
53259	PRKT 4-07/2 M	4	PVC, orange	
28336	PRKT 4-07/5 M	4	PVC, orange	
13287	PRKT 4-07/10 M	4	PVC, orange	
934637022	PRKT 5-56/2 M	5	PVC, orange	
45340	PRKT 5-56/5 M	5	PVC, orange	
46894	PRKT 5-56/10 M	5	PVC, orange	
66786	PRKT/LED F 4-07/2 M	4	PVC, orange	
105095	PRKT/LED F 4-07/5 M	4	PVC, orange	
46990	PRKT/LED F 4-07/10 M	4	PVC, orange	

LED F: PNP break/make contact Special circuitry available upon request

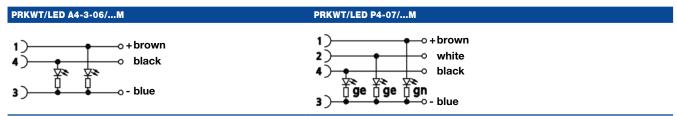
Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Female Connectors for Food & Beverage – PVC

Product Description						
Order Designation	PRKWT	PRKWT/LED				
Description	Actuator/sensor cordset, M12 overmolded female connector, angled, with self-locking screw coupling, stainless steel hexagonal nut Actuator/sensor cordset, M12 overmolded female connector, a with LED and function indicators, self-locking screw coupling, stainless steel hexagonal nut					
Note	Especially suitable for use in the food & beverage industry.					
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101					
Approvals	-					
Technical Data						
Ambient Temperature	-25 °C to +70 °C, mind	cable temperature range				
Housing Material/Grip	P	VC				
Contact Holder Material	P	VC				
Contact Material/Surface Finish	CuSn, gold ov	er nickel plating				
Screw Coupling Material	Stainle	ess steel				
Mechanical Data						
Degree of Protection	IP67, IP69K (only when mated to associated counterparts)					
Electrical Data						
Contact Resistance	≤5	imΩ				
Rated Voltage	4-pin 250 V, 5-pin 60 V	30 V				
Rated Current	4	I A				
Pollution Degree		3				
Technical Drawing						
	26.5 12 15 14.5 14.5 16 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	26.5 12 13 14 15 10 10 10 10 10 10 10 10 10				

*a = 0-ring $\bullet *b = Protective$ sleeve assembly $\bullet L = Standard$ length of cable $\bullet B = Operation$ indicator (green) $\bullet F = Function$ indicator (yellow)

3-pin	4-pin	5-pin
1 = brown 2 = n.c. 3 = blue 4 = black	1 = brown 2 = n.c. 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = gray

Circuit Diagram



Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
53263	PRKWT 4-07/2 M	4	PVC, orange	
13601	PRKWT 4-07/5 M	4	PVC, orange	
13584	PRKWT 4-07/10 M	4	PVC, orange	
11157	PRKWT 5-56/2 M	5	PVC, orange	
13635	PRKWT 5-56/5 M	5	PVC, orange	
54711	PRKWT 5-56/10 M	5	PVC, orange	
13863	PRKWT/LED A 4-3-06/2 M	3	PVC, orange	
13862	PRKWT/LED A 4-3-06/5 M	3	PVC, orange	
13864	PRKWT/LED A 4-3-06/10 M	3	PVC, orange	
18021	PRKWT/LED P 4-07/5 M	4	PVC, orange	
18026	PRKWT/LED P 4-07/10 M	4	PVC, orange	
18027	PRKWT/LED P 4-07/25 M	4	PVC, orange	

LED A: PNP make contact (yellow-green), LED P: PNP break/make contact (yellow-yellow-green antivalent) Special circuitry available upon request

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Female Connectors for Food & Beverage – Wash-Down

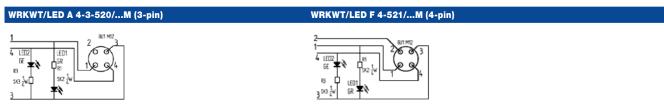
Technical Information

Product Description							
Order Designation	WRKT	WRKT/LED					
Description	Actuator/sensor cordset, M12 overmolded female connector, straight, stainless steel hexagonal nut	Actuator/sensor cordset, M12 overmolded female connector, straight LED operation and function indicators, stainless steel hexagonal nut					
Note	Especially suitable for use in wash-down applications.						
RoHS-compliant (2011/65/EU)	Yes						
(Construction Type) Standard	IEC 61076-2-101						
Approvals	UL, ECOLAB						
Technical Data							
Ambient Temperature	-40 °C to +105 °C (UL: up to +90	°C), mind cable temperature range					
Housing Material/Grip	1	pp					
Contact Holder Material	1	pp					
Contact Material/Surface Finish	CuSn (3, 4, and 5-pin), CuZn	(8-pin), gold over nickel plating					
Screw Coupling Material	Stainle	ess steel					
Mechanical Data							
Degree of Protection	IP67, IP68, IP69K (only when m	IP67, IP68, IP69K (only when mated to associated counterparts)					
Electrical Data							
Contact Resistance	≤5	imΩ					
Rated Voltage	3 to 4-pin 250 V, 5-pin 60 V, 8-pin 30 V	30 V					
Rated Current	3 and 5-pin	4 A, 8-pin 2 A					
Pollution Degree		3					
Technical Drawing							
	© 14.5 SW 14	\$\phi\$ 14.5.					

 $L = Standard \ length \ of \ cable$

3-pin	4-pin	5-pin	8-pin
1 = brown 2 = n.c. 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = gray	5 1 = white 5 = gray 6 = pink 3 = green 7 = blue 4 = yellow 8 = red

Circuit Diagram



Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
934733001	WRKT 4-3-520/2 M	3	TPE, orange	ECO UL A
934733002	WRKT 4-3-520/5 M	3	TPE, orange	ECO UL A
934733003	WRKT 4-3-520/10 M	3	TPE, orange	ECO UL A
934733007	WRKT 4-521/2 M	4	TPE, orange	ECO UL A
934733008	WRKT 4-521/5 M	4	TPE, orange	ECO UL C
934733009	WRKT 4-521/10 M	4	TPE, orange	ECO UL E
934733013	WRKT 5-522/2 M	5	TPE, orange	ECO UL A
934733014	WRKT 5-522/5 M	5	TPE, orange	ECO UL E
934733015	WRKT 5-522/10 M	5	TPE, orange	ECO UL A
934733019	WRKT 8-523/2 M	8	TPE, orange	ECO UL A
934733020	WRKT 8-523/5 M	8	TPE, orange	ECO UL C
934733021	WRKT 8-523/10 M	8	TPE, orange	ECO UL C
9779	WRKT/LED A 4-3-520/2 M	3	TPE, orange	ECO UL C
9818	WRKT/LED A 4-3-520/5 M	3	TPE, orange	ECO UL C
9819	WRKT/LED A 4-3-520/10 M	3	TPE, orange	ECO UL A
9262	WRKT/LED F 4-521/2 M	4	TPE, orange	ECO UL D
9261	WRKT/LED F 4-521/5 M	4	TPE, orange	ECO UL D
9820	WRKT/LED F 4-521/10 M	4	TPE, orange	ECO UL D

LED A/LED F: PNP make contact Special circuitry available upon request

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Female Connectors for Food & Beverage – Wash-Down

Technical Information

Product Description				
Order Designation	WRKWT	WRKWT/LED		
		- Ba		
Description	Actuator/sensor cordset, M12 female connector, angled, stainless steel hexagonal nut	Actuator/sensor cordset, M12 female connector, angled, LED operation and function indicators, stainless steel hexagonal nut		
Note	Especially suitable for use in wash-down applications.			
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL, ECOLAB			
Technical Data				
Ambient Temperature	-40 °C to +105 °C (UL: up to +9	0 °C), mind cable temperature range		
Housing Material/Grip		PP		
Contact Holder Material		PP		
Contact Material/Surface Finish	CuSn (3, 4, and 5-pin), CuZr	n (8-pin), gold over nickel plating		
Screw Coupling Material	Stain	less steel		
Mechanical Data				
Degree of Protection	IP67, IP68, IP69K (only when mated to associated counterparts)			
Electrical Data				
Contact Resistance	≤	5 mΩ		
Rated Voltage	3 to 4-pin 250 V, 5-pin 60 V, 8-pin 30 V	30 V		
Rated Current	3 and 5-pii	1 4 A, 8-pin 2 A		
Pollution Degree		3		
Technical Drawing				
	26.6	46.75		

 $L = Standard\ length\ of\ cable\ \bullet\ B = Operation\ indicator\ (green)\ \bullet\ F = Function\ indicator\ (yellow)\ \bullet\ F2 = Function\ indicator\ (yellow)$

Pin Assignment

3-pin	4-pin	5-pin	8-pin
1 = brown 2 = n.c. 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = gray	5 1 = white 5 = gray 2 = brown 6 = pink 3 = green 7 = blue 4 = yellow 8 = red

Circuit Diagram

WRKWT/LED A 4-3-250/...M (3-pin) WRKWT/LED F 4-521/...M (4-pin) WRKWT/LED P 4-521/...M (4-pin)

Order Information

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
934734001	WRKWT 4-3-520/2 M	4	TPE, orange	ECO UL
934734002	WRKWT 4-3-520/5 M	4	TPE, orange	ECO UL
934734003	WRKWT 4-3-520/10 M	4	TPE, orange	ECO UL
934734007	WRKWT 4-521/2 M	4	TPE, orange	ECO UL
934734008	WRKWT 4-521/5 M	4	TPE, orange	ECO UL
934734009	WRKWT 4-521/10 M	4	TPE, orange	ECO UL A
934734013	WRKWT 5-522/2 M	5	TPE, orange	ECO UL D
934734014	WRKWT 5-522/5 M	5	TPE, orange	ECO UL D
934734015	WRKWT 5-522/10 M	5	TPE, orange	ECO UL D
934734019	WRKWT 8-523/2 M	8	TPE, orange	ECO UL A
934734020	WRKWT 8-523/5 M	8	TPE, orange	ECO UL
934734021	WRKWT 8-523/10 M	8	TPE, orange	ECO UL
9821	WRKWT/LED A 4-3-520/2 M	3	TPE, orange	ECO UL
9824	WRKWT/LED A 4-3-520/5 M	3	TPE, orange	ECO UL
9829	WRKWT/LED A 4-3-520/10 M	3	TPE, orange	ECO UL
9830	WRKWT/LED F 4-521/2 M	4	TPE, orange	ECO UL
9831	WRKWT/LED F 4-521/5 M	4	TPE, orange	ECO UL
9832	WRKWT/LED F 4-521/10 M	4	TPE, orange	ECO UL
9258	WRKWT/LED P 4-521/2 M	4	TPE, orange	ECO UL
7319	WRKWT/LED P 4-521/5 M	4	TPE, orange	ECO UL
10502	WRKWT/LED P 4-521/10 M	4	TPE, orange	ECO UL D

LED A/LED F: PNP make contact (yellow-green), LED P: PNP break/make contact (yellow-yellow-green) Special circuitry available upon request

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Standard Male Connectors

Product Description						
Order Designation	RST	RSWT				
Description	Actuator/sensor cordset, M12 overmolded male connector, straight, with self-locking screw coupling	Actuator/sensor cordset, M12 overmolded male connector, angled, with self-locking screw coupling				
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101					
Approvals	UL					
Technical Data						
Ambient Temperature	-40 °C to +90 °C, mind	cable temperature range				
Housing Material/Grip	Т	PU				
Contact Holder Material	Т	PU				
Contact Material/Surface Finish	CuSn, gold ov	er nickel plating				
Screw Coupling Material	CuZn, nic	ckel-plated				
Mechanical Data						
Degree of Protection	IP67, IP68 (only when mate	d to associated counterparts)				
Electrical Data						
Contact Resistance	≤5 mΩ					
Rated Voltage		-pin 60 V, 8-pin 30 V				
Rated Current		4 A, 8-pin 2 A				
Pollution Degree		3				
Technical Drawing						
	M12x1 61 14.5 10.5 10.5 10.5	Φ 14.5 Φ 8.8 Φ 10.5				

^{*}a = Protective sleeve assembly $\bullet L = Standard$ length of cable

3-pin 4-pin 5-pin 8-pin 5 = gray 6 = pink 7 = blue 8 = shield 1 = brown 1 = brown 1 = brown 1 = white 2 = white 3 = blue 4 = black 3 = blue 4 = black2 = white 3 = blue 4 = black 2 = brown3 = green 4 = yellow Contact 1 leading 5 = green/yellow Contact 5 leading

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
11719	RST 3-06/2 M	3	PVC, orange	UL 🖦
11720	RST 3-06/5 M	3	PVC, orange	UL 🖦
11718	RST 3-06/10 M	3	PVC, orange	UL 🖦
43703	RST 3-224/2 M	3	PUR, halogen-free, black	UL 🍗 🥽 🥌
43704	RST 3-224/5 M	3	PUR, halogen-free, black	UL 🍗 🥽 🛌
43702	RST 3-224/10 M	3	PUR, halogen-free, black	UL 🍗 🚛 느
41731	RST 3-260/2 M	3	PUR, halogen-free, orange	
71255	RST 3-260/5 M	3	PUR, halogen-free, orange	
71266	RST 3-260/10 M	3	PUR, halogen-free, orange	
9835	RST 3-294/2 M	3	PVC, black	
3148	RST 3-294/5 M	3	PVC, black	
3149	RST 3-294/10 M	3	PVC, black	
11804	RST 4-07/2 M	4	PVC, orange	UL 🖦
11805	RST 4-07/5 M	4	PVC, orange	UL 🖦
11803	RST 4-07/10 M	4	PVC, orange	UL 🖦
11809	RST 4-225/2 M	4	PUR, halogen-free, black	UL 🍗 🚛 🦱
11810	RST 4-225/5 M	4	PUR, halogen-free, black	UL 🍗 🚛 🛌
29618	RST 4-225/10 M	4	PUR, halogen-free, black	UL 🍗 🚛 🛌
11811	RST 4-251/2 M	4	PUR, halogen-free, orange	
11812	RST 4-251/5 M	4	PUR, halogen-free, orange	CF UL Y
46902	RST 4-251/10 M	4	PUR, halogen-free, orange	CF UL Y C
91332	RST 4-265/2 M	4	PUR, halogen-free, gray	UL Comment
51939	RST 4-265/5 M	4	PUR, halogen-free, gray	UL C
81994	RST 4-265/10 M	4	PUR, halogen-free, gray	UL C
			1	

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Standard Male Connectors (continued)

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
693	RST 4-500/2 M	4	PUR, halogen-free, black	
694	RST 4-500/5 M	4	PUR, halogen-free, black	
695	RST 4-500/10 M	4	PUR, halogen-free, black	
46615	RST 4-602/2 M	4	TPE, yellow	UL
26875	RST 4-602/5 M	4	TPE, yellow	UL
55304	RST 4-602/10 M	4	TPE, yellow	UL
12016	RST 5-56/2 M	5	PVC, orange	UL 🖦
12017	RST 5-56/5 M	5	PVC, orange	UL 🖦
12015	RST 5-56/10 M	5	PVC, orange	UL 🖦
10436	RST 5-72/2 M	5	PUR, black	
15274	RST 5-72/5 M	5	PUR, black	
107305	RST 5-72/10 M	5	PUR, black	
15792	RST 5-87/2 M	5	PUR, black	
15794	RST 5-87/5 M	5	PUR, black	
15795	RST 5-87/10 M	5	PUR, black	
11890	RST 5-228/2 M	5	PUR, halogen-free, black	
11891	RST 5-228/5 M	5	PUR, halogen-free, black	
17061	RST 5-228/10 M	5	PUR, halogen-free, black	UL W
11895	RST 5-259/2 M	5	PUR, halogen-free, orange	
11896	RST 5-259/5 M	5	PUR, halogen-free, orange	
47018	RST 5-259/10 M	5	PUR, halogen-free, orange	
51495	RST 5-289/2 M	5	PVC, black	
51496	RST 5-289/5 M	5	PVC, black	
51497	RST 5-289/10 M	5	PVC, black	
10435	RST 5-296/2 M	5	PVC, black	
934637790	RST 5-296/5 M	5	PVC, black	
1222	RST 5-296/10 M	5	PVC, black	£****
12084	RST 8-09/2 M	8	PUR, orange	
12085	RST 8-09/5 M	8	PUR, orange	
12083	RST 8-09/10 M	8	PUR, orange	

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
47076	RST 8-282/2 M	8	PUR, halogen-free, black	UL 🍗 🧲 느
64545	RST 8-282/5 M	8	PUR, halogen-free, black	UL W
64544	RST 8-282/10 M	8	PUR, halogen-free, black	UL 🔪 🚛
97324	RST 8-344/2 M	8	PUR, halogen-free, black	UL (****)
97325	RST 8-344/5 M	8	PUR, halogen-free, black	UL (***)
108754	RST 8-344/10 M	8	PUR, halogen-free, black	UL (****)
9838	RST 12-346/2 M	12	PUR, halogen-free, black	UL (°°°°)
105423	RST 12-346/5 M	12	PUR, halogen-free, black	UL (****)
934637041	RST 12-346/10 M	12	PUR, halogen-free, black	UL (****)
12106	RSWT 3-06/2 M	3	PVC, orange	UL 🖦
12107	RSWT 3-06/5 M	3	PVC, orange	UL 🖦
8816	RSWT 3-06/10 M	3	PVC, orange	UL 🖦
934636133	RSWT 3-224/2 M	3	PUR, halogen-free, black	UL Y C
70397	RSWT 3-224/5 M	3	PUR, halogen-free, black	UL 🍗 连 느
1028	RSWT 3-224/10 M	3	PUR, halogen-free, black	UL 🍗 类
12112	RSWT 4-07/2 M	4	PVC, orange	UL 🖦
12113	RSWT 4-07/5 M	4	PVC, orange	UL 🖦
12111	RSWT 4-07/10 M	4	PVC, orange	UL 🖦
46523	RSWT 4-225/2 M	4	PUR, halogen-free, black	UL Y C
44597	RSWT 4-225/5 M	4	PUR, halogen-free, black	UL Y C
46629	RSWT 4-225/10 M	4	PUR, halogen-free, black	
934636116	RSWT 5-56/2 M	5	PVC, orange	UL 🖦
9859	RSWT 5-56/5 M	5	PVC, orange	UL 🖦
9870	RSWT 5-56/10 M	5	PVC, orange	UL 🖦
44782	RSWT 5-228/2 M	5	PUR, halogen-free, black	UL 🍗 🦲
50527	RSWT 5-228/5 M	5	PUR, halogen-free, black	UL 🍗 🧀
58489	RSWT 5-228/10 M	5	PUR, halogen-free, black	UL 🍗 🦲
15951	RSWT 8-09/2 M	8	PUR, orange	UL Y
9882	RSWT 8-09/5 M	8	PUR, orange	UL M
934637356	RSWT 8-09/10 M	8	PUR, orange	UL W

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Shielded Male Connectors

Product Description						
Product Description	RSTS					
Description	Actuator/sensor cordset, M12 overmolded male connector, straight, shielded, with screw coupling, 360° shield connected to knurled screw					
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101					
Approvals	UL					
Technical Data						
Ambient Temperature	-25 °C to +80 °C, mind cable temperature range					
Housing Material/Grip	TPU					
Contact Holder Material	PBT (8-pin: TPU)					
Contact Material/Surface Finish	CuSn (4 and 5-pin), CuZn (8-pin), gold over nickel plating					
Screw Coupling Material	CuZn, nickel-plated					
Mechanical Data						
Degree of Protection	IP67 (only when mated to associated counterparts)					
Electrical Data						
Contact Resistance	≤5 mΩ					
Rated Voltage	4-pin 250 V, 5-pin 60 V, 8-pin 30 V					
Rated Current	4 to 5-pin 4 A, 8-pin 2 A					
Pollution Degree	3					
Technical Drawing						
	91 91 14.5					

 $[*]a = Protective sleeve assembly \bullet L = Standard length of cable$

4-pin 5-pin 8-pin

1 = brown 2 = white 3 = blue 4 = black 5 = gray

4 - pin 5-pin 8-pin

1 = white 5 = gray 2 = brown 6 = pink 3 = green 7 = blue 4 = yellow 8 = red

Contact 5 leading

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
12087	RSTS 4-182/2 M	4	PVC, orange	 +))
12088	RSTS 4-182/5 M	4	PVC, orange	[+ 1))
12086	RSTS 4-182/10 M	4	PVC, orange	 +))
49307	RSTS 4-288/2 M	4	PUR, halogen-free, black	UL (
49308	RSTS 4-288/5 M	4	PUR, halogen-free, black	UL (***))
49306	RSTS 4-288/10 M	4	PUR, halogen-free, black	(UL) (****)
12093	RSTS 5-183/2 M	5	PVC, orange	[+))
12094	RSTS 5-183/5 M	5	PVC, orange	(
12092	RSTS 5-183/10 M	5	PVC, orange	(
49234	RSTS 5-298/2 M	5	PUR, halogen-free, black	UL (##))
49235	RSTS 5-298/5 M	5	PUR, halogen-free, black	
49233	RSTS 5-298/10 M	5	PUR, halogen-free, black	
12099	RSTS 8-184/2 M	8	PVC, orange	(##+°))
12100	RSTS 8-184/5 M	8	PVC, orange	[+ 1))
12098	RSTS 8-184/10 M	8	PVC, orange	[##·))
49264	RSTS 8-299/2 M	8	PUR, halogen-free, black	
49265	RSTS 8-299/5 M	8	PUR, halogen-free, black	
49263	RSTS 8-299/10 M	8	PUR, halogen-free, black	

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Male Connectors for Food & Beverage – PVC

Product Description		
Order Designation	PRST	PRSWT
Description	Actuator/sensor cordset, M12 overmolded male connector, straight, with self-locking screw coupling, stainless steel hexagonal screw	Actuator/sensor cordset, M12 overmolded male connector, angled, with self-locking screw coupling, stainless steel hexagonal screw
Note	Especially suitable for use in the food & beverage industry.	
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	-	
Technical Data		
Ambient Temperature	-25 °C to +70 °C, mind	cable temperature range
Housing Material/Grip	P	VC
Contact Holder Material	P	VC
Contact Material/Surface Finish	CuZn, gold ove	er nickel plating
Screw Coupling Material	Stainle	ss steel
Mechanical Data		
Degree of Protection	IP67, IP69K (only when mate	ed to associated counterparts)
Electrical Data		
Contact Resistance	≤ 5	mΩ
Rated Voltage	250 V, 5	-pin 60 V
Rated Current	4	A
Pollution Degree		3
Technical Drawing		
	M12×1 Ø1 SW 12 SW 14 F(0) F(0) F(0) Ø 10.5	915 15 15 15 15 16 17 18 18 18 19 10.5

 $^{{}^{\}star}a = \text{Protective sleeve assembly} \, \bullet \, L = \text{Standard length of cable}$

PRST Pin Assignment

4-pin

5-pin



1 = brown 2 = white 3 = blue 4 = black



1 = brown

2 = white 3 = blue 4 = black 5 = green/yellow

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
38298	PRST 4-07/2 M	4	PVC, orange	
59202	PRST 4-07/5 M	4	PVC, orange	
18230	PRST 4-07/10 M	4	PVC, orange	
9884	PRST 5-56/2 M	5	PVC, orange	
9894	PRST 5-56/5 M	5	PVC, orange	
9895	PRST 5-56/10 M	5	PVC, orange	
9901	PRSWT 4-07/2 M	4	PVC, orange	
9904	PRSWT 4-07/5 M	4	PVC, orange	
9909	PRSWT 4-07/10 M	4	PVC, orange	
9910	PRSWT 5-56/2 M	5	PVC, orange	
9911	PRSWT 5-56/5 M	5	PVC, orange	
9912	PRSWT 5-56/10 M	5	PVC, orange	

Single-Ended Overmolded M12 Cordset for Actuators and Sensors – Male Connectors for Food & Beverage – Wash-Down

Technical Information

Product Description			
Order Designation	WRST	WRSWT	
	- Charles	100 PM	
Description	Actuator/sensor cordset, M12 overmolded male, straight, stainless	Actuator/sensor cordset, M12 overmolded male, angled, stainless	
Nata	steel hexagonal screw	steel hexagonal screw	
Note	Especially suitable for use in wash-down applications.		
RoHS-compliant (2011/65/EU) (Construction Type) Standard	Yes IEC 61076-2-101		
Approvals	UL, ECOLAB		
Technical Data	OL, LCOLAB		
Ambient Temperature	-40 °C to +105 °C (III · un to +90	0 °C), mind cable temperature range	
Housing Material/Grip		PP	
Contact Holder Material		PP	
Contact Material/Surface Finish		oin), nickel underlay and gold-plated	
Screw Coupling Material		ess steel	
Mechanical Data			
Degree of Protection	IP67, IP68, IP69K (only when n	nated to associated counterparts)	
Electrical Data			
Contact Resistance	≤!	5 mΩ	
Rated Voltage	3 to 4-pin 250 V, 5-pin 60 V, 8-p	oin 30 V (3 to 5-pin UL 30 V AC/DC)	
Rated Current	3 and 5-pin	4 A, 8-pin 2 A	
Pollution Degree		3	
Technical Drawing			
	. M 17 x 1	. W 14	
	KC		
	3		
	<u> </u>		
	ш		

 $L = Standard \ length \ of \ cable$

3-pin 4-pin 5-pin 8-pin

4-pin 5-pin 8-pin

1 = brown 3 = blue 4 = black 3 = blue 4 = black 5 = gray

4 = black 5 = gray

8-pin

1 = brown 2 = white 5 = gray 2 = blue 4 = black 5 = gray

1 = brown 6 = pink 3 = green 7 = blue 4 = yellow 8 = red

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
934735001	WRST 3-520/2 M	3	TPE, orange	ECO UL
934735002	WRST 3-520/5 M	3	TPE, orange	ECO UL
934735003	WRST 3-520/10 M	3	TPE, orange	ECO UL
934735007	WRST 4-521/2 M	4	TPE, orange	ECO UL
934735008	WRST 4-521/5 M	4	TPE, orange	ECO UL
934735009	WRST 4-521/10 M	4	TPE, orange	ECO UL
934735013	WRST 5-522/2 M	5	TPE, orange	ECO UL
934735014	WRST 5-522/5 M	5	TPE, orange	ECO UL
934735015	WRST 5-522/10 M	5	TPE, orange	ECO UL
934735019	WRST 8-523/2 M	8	TPE, orange	ECO UL
934735020	WRST 8-523/5 M	8	TPE, orange	ECO UL
934735021	WRST 8-523/10 M	8	TPE, orange	ECO UL
934736001	WRSWT 3-520/2 M	3	TPE, orange	ECO UL
934736002	WRSWT 3-520/5 M	3	TPE, orange	ECO UL
934736003	WRSWT 3-520/10 M	3	TPE, orange	ECO UL
934736007	WRSWT 4-521/2 M	4	TPE, orange	ECO UL
934736008	WRSWT 4-521/5 M	4	TPE, orange	ECO UL D
934736009	WRSWT 4-521/10 M	4	TPE, orange	ECO UL D
934736013	WRSWT 5-522/2 M	5	TPE, orange	ECO UL
934736014	WRSWT 5-522/5 M	5	TPE, orange	ECO UL
934736015	WRSWT 5-522/10 M	5	TPE, orange	ECO UL C
934736019	WRSWT 8-523/2 M	8	TPE, orange	ECO UL D
934736020	WRSWT 8-523/5 M	8	TPE, orange	ECO UL C
934736021	WRSWT 8-523/10 M	8	TPE, orange	ECO UL A

Single-Ended Overmolded $1/2^{\prime\prime}$ UNF or M12 Cordsets for Actuators and Sensors – Female Connectors

Product Description	DIAT OIL	DVWT OU
Order Designation	RKT 3U	RKWT 3U
Description	Actuator/sensor cordset, 1/2" UNF or M12 overmolded female connector, straight, C- (or U-)coding, with self-locking screw coupling, 3-pin	Actuator/sensor cordset, 1/2" UNF or M12 overmolded female connector, angled, C- (or U-)coding, with self-locking screw coupling, 3-pin
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	Based on IEC 61076-2-101	
Approvals	UL	
Technical Data		
Ambient Temperature	-20 °C to + 90 °C, min	d cable temperature range
Housing Material/Grip		TPU
Contact Holder Material		TPU
Contact Material/Surface Finish	CuSn,	gold-plated
Screw Coupling Material	CuZn, n	ickel-plated
Mechanical Data		
Degree of Protection	IP67, IP69K (only when ma	ted to associated counterparts)
Electrical Data		
Contact Resistance	≤	$5\text{m}\Omega$
Rated Voltage	2	250 V
Rated Current		4 A
Pollution Degree		3
Technical Drawing		
	1/2'-20UNF-2B/M12 x1	26.5 11 0.5 14.5 14.5 10.5

*a = 0-ring ullet *b = Protective sleeve assembly ullet L = Standard length of cable

3-pin, U-coding



1 = brown 2 = blue 3 = green/yellow

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
11342	RKT 3U-12-19/2 M	3	PVC, orange	
11343	RKT 3U-12-19/5 M	3	PVC, orange	
9913	RKT 3U-12-19/10 M	3	PVC, orange	
11345	RKT 3U-18/2 M	3	PVC, yellow	UL 🖦
11346	RKT 3U-18/5 M	3	PVC, yellow	UL I
11344	RKT 3U-18/10 M	3	PVC, yellow	UL L
91183	RKT 3U-226/2 M	3	PUR, halogen-free, black	
54204	RKT 3U-226/5 M	3	PUR, halogen-free, black	
76347	RKT 3U-226/10 M	3	PUR, halogen-free, black	
11433	RKWT 3U-18/2 M	3	PVC, yellow	UL L
11434	RKWT 3U-18/5 M	3	PVC, yellow	UL C
11432	RKWT 3U-18/10 M	3	PVC, yellow	UL C
11430	RKWT 3U-12-19/2 M	3	PVC, orange	
11431	RKWT 3U-12-19/5 M	3	PVC, orange	
86075	RKWT 3U-12-19/10 M	3	PVC, orange	

Single-Ended Overmolded 1/2" UNF Connectors for Actuators and Sensors - Male Connectors

Product Description				
Order Designation	RST 3U			
Description	Actuator/sensor cordset, 1/2" UNF overmolded male connector, straight, C- (or U)-coding, with self-locking screw coupling, 3-pin			
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	based on IEC 61076-2-101			
Approvals	UL			
Technical Data				
Ambient Temperature	-25 °C to +80 °C, mind cable temperature range			
Housing Material/Grip	TPU			
Contact Holder Material	TPU			
Contact Material/Surface Finish	CuZn, gold-plated			
Screw Coupling Material	CuZn, nickel-plated			
Mechanical Data				
Degree of Protection	IP67 (only when mated to associated counterparts)			
Electrical Data				
Contact Resistance	≤5 mΩ			
Rated Voltage	250 V			
Rated Current	4 A			
Pollution Degree	3			
Technical Drawing				
	1/2'-20UNF-1A 91 14.5 14.5			

 $[\]mbox{``a = Protective sleeve assembly } \bullet \mbox{$L = S$tandard length of cable}$

3-pin, U-coding



1 = green 2 = red/black3 = red/white

Contact 1 leading

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
74357	RST 3U-226/2 M	3	PUR, halogen-free, black	UL 🍗 💴 🥌
54921	RST 3U-226/5 M	3	PUR, halogen-free, black	UL 🍗 🚛 🥌
9920	RST 3U-226/10 M	3	PUR, halogen-free, black	UL 🏠 🧲 🥌

Single-Ended Overmolded M12 Data Cordsets - Industrial Ethernet

Technical Information

Product Description			
Order Designation	0985 342 118	0985 342 102	0985 342 130
Description	Industrial Ethernet cordset, M12 female connector, straight, with screw coupling, D-coding, 4-pin, 360° shield connected to knurled coupling nut	Industrial Ethernet cordset, M12 male connector, straight, with screw coupling, D-coding, 4-pin, 360° shield connected to knurled coupling nut	Industrial Ethernet cordset, M12 male connector, angled, with screw coupling, D-coding, 4-pin, 360° shield connected to knurled coupling nut
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	UL		
Technical Data			
Ambient Temperature	-25 °C to +80 °C, mind	d cable temperature range	-25 °C to to + 85 °C, mind cable temperature range
Housing Material/Grip		TPU	
Contact Holder Material		PBT	
Contact Material/Surface Finish		CuSn, gold-plated	
Screw Coupling Material		CuZn, nickel-plated	
Mechanical Data			
Degree of Protection	IP67 (only when mated to associate	d counterparts) IP67, IP68, IP69K	(only when mated to associated counterparts)
Electrical Data			
Contact Resistance		≤ 5 mΩ	
Rated Voltage		250 V	
Rated Current		4 A	
Pollution Degree		3	
Technical Drawing			
	D-Stag O-Stag O-Stag	Φ 1 Φ 1 Φ 1 Φ 1 Φ 1 Φ 1 Φ 1 Φ 1 Φ 1 Φ 1	D-Corientry D-cooling 32 55 55 55 55 55 55 55 55 55 55 55 55 55

 $L = Standard\ length\ of\ cable$

Pin Assignment

4-pin, D-coding

1 = yellow
2 = white
2 = white
3 = orange
4 = blue

4-pin, D-coding

1 = yellow
2 = white
3 = orange
4 = blue

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
9922	0985 342 118/0.3 M	4	PUR, halogen-free, shielded, green	UL (#1) (***)
9923	0985 342 118/0.6 M	4	PUR, halogen-free, shielded, green	UL (#1)) ()
934717002	0985 342 118/1 M	4	PUR, halogen-free, shielded, green	UL (#1)) ()
934717003	0985 342 118/2 M	4	PUR, halogen-free, shielded, green	UL (#1)) ()
2618	0985 342 118/3 M	4	PUR, halogen-free, shielded, green	UL (#1)) ()
934717004	0985 342 118/5 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
934717005	0985 342 118/10 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
934717006	0985 342 118/15 M	4	PUR, halogen-free, shielded, green	UL (#+1)) (***********************************
934717007	0985 342 118/20 M	4	PUR, halogen-free, shielded, green	UL (#+1)) (***********************************
9924	0985 342 118/25 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
9926	0985 342 102/0.3 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
9927	0985 342 102/0.6 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
934636933	0985 342 102/1 M	4	PUR, halogen-free, shielded, green	UL (#+1)) (***)
75631	0985 342 102/2 M	4	PUR, halogen-free, shielded, green	UL (##-)) (***********************************
91037	0985 342 102/3 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
75632	0985 342 102/5 M	4	PUR, halogen-free, shielded, green	UL (#+)) ()
77830	0985 342 102/10 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
934636134	0985 342 102/15 M	4	PUR, halogen-free, shielded, green	UL (##)) (**)
2781	0985 342 102/20 M	4	PUR, halogen-free, shielded, green	UL ##)
934636087	0985 342 102/25 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
934636800	0985 342 130/0.3 M	4	PUR, halogen-free, shielded, green	UL (##)) (***)
9929	0985 342 130/0.6 M	4	PUR, halogen-free, shielded, green	UL (##)) (***)
2521	0985 342 130/1 M	4	PUR, halogen-free, shielded, green	UL (##)) (***)
2374	0985 342 130/2 M	4	PUR, halogen-free, shielded, green	UL (##-)) ()
2522	0985 342 130/3 M	4	PUR, halogen-free, shielded, green	UL (##-)) (***********************************
934726002	0985 342 130/5 M	4	PUR, halogen-free, shielded, green	UL (##-)) (***********************************
2524	0985 342 130/10 M	4	PUR, halogen-free, shielded, green	UL (##)) ()
2525	0985 342 130/15 M	4	PUR, halogen-free, shielded, green	UL (##)) ()
2375	0985 342 130/20 M	4	PUR, halogen-free, shielded, green	UL (##)) ()
9930	0985 342 130/25 M	4	PUR, halogen-free, shielded, green	UL (#*)) (***)
			1	·

Single-Ended Overmolded M12 Data Cordsets – Male Industrial Ethernet for Railway Applications

Technical Information

Product Description					
Order Designation	0985 508 120	0985 508 123			
Description	Industrial Ethernet cordset with rail approval, Cat 5 (ProfiNet), M12 male connector, straight, 4-pin, D-coding	Industrial Ethernet cordset with rail approval, Cat 5 (ProfiNet), M12 male connector, angled, 4-pin, D-coding			
RoHS-compliant (2011/65/EU)	Yes				
(Construction Type) Standard	IEC 61076-2-101				
Approvals	IEC 61373, DIN EN 50467, DIN EN 45545-2, DIN 5510, based on EN 50	0155			
Technical Data					
Ambient Temperature	-40 °C to +85 °C, mind	cable temperature range			
Housing Material/Grip		PA			
Contact Holder Material	F	PA			
Contact Material/Surface Finish	CuSn, go	old-plated			
Screw Coupling Material	CuZn, nickel-plated				
Mechanical Data					
Degree of Protection	IP67 (only when mated to	associated counterparts)			
Electrical Data					
Contact Resistance		mΩ			
Rated Voltage		0 V			
Rated Current		A			
Pollution Degree		3			
Technical Drawing					
	Ø 11.5	D-Coderagy D-coding			

 $L = Standard \ length \ of \ cable$

4-pin, D-coding



1 = yellow 2 = white 3 = orange 4 = blue

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
9933	0985 508 120/0.3 M	4	X-FRNC, black	RAIL W III III III III III III III III III
9936	0985 508 120/0.6 M	4	X-FRNC, black	RAIL W III III III III III III III III III
934688015	0985 508 120/1 M	4	X-FRNC, black	RAIL W III)
934688011	0985 508 120/2 M	4	X-FRNC, black	RAIL W III)
9937	0985 508 120/3 M	4	X-FRNC, black	RAIL W III III III III III III III III III
934688012	0985 508 120/5 M	4	X-FRNC, black	RAIL W III)
934688013	0985 508 120/10 M	4	X-FRNC, black	RAIL W III III III III III III III III III
934688014	0985 508 120/15 M	4	X-FRNC, black	RAIL W III III III III III III III III III
9942	0985 508 120/20 M	4	X-FRNC, black	RAIL W III)
9946	0985 508 120/25 M	4	X-FRNC, black	RAIL W III)
10413	0985 508 123/0.3 M	4	X-FRNC, black	RAIL (#1)
10417	0985 508 123/0.6 M	4	X-FRNC, black	RAIL W III)
934802001	0985 508 123/1 M	4	X-FRNC, black	RAIL (#1)
934802002	0985 508 123/2 M	4	X-FRNC, black	RAIL (#1)
10418	0985 508 123/3 M	4	X-FRNC, black	RAIL (#1)
934802003	0985 508 123/5 M	4	X-FRNC, black	RAIL (#1)
934802004	0985 508 123/10 M	4	X-FRNC, black	RAIL (#1)
10424	0985 508 123/15 M	4	X-FRNC, black	RAIL (#1)
10425	0985 508 123/20 M	4	X-FRNC, black	RAIL (#1)
10427	0985 508 123/25 M	4	X-FRNC, black	RAIL (#)

Single-Ended Overmolded M12 Data Cordsets – Female Industrial Ethernet for Railway Applications

Technical Information

Product Description	
Order Designation	0985 508 124
Description	Industrial Ethernet cordset with rail approval, Cat 5, M12 molded, receptacle, female, straight, 4-pin, D-coding
RoHS-compliant (2011/65/EU)	Yes
(Construction Type) Standard	IEC 61076-2-101
Approvals	IEC 61373, DIN EN 50467, DIN EN 45545-2, based on EN 50155
Technical Data	
Ambient Temperature	-40 °C to +85 °C, mind cable temperature range
Housing Material/Grip	PA
Contact Holder Material	PBT
Contact Material/Surface Finish	CuSn, gold-plated
Screw Coupling Material	CuZn, nickel-plated
Mechanical Data	
Degree of Protection	IP67 (only when mated to associated counterparts)
Electrical Data	
Contact Resistance	≤ 5 mΩ
Rated Voltage	250 V
Rated Current	4 A
Pollution Degree	3
Technical Drawing	
	Pg 9 DIN 40430 O-Ring / O-ring Sechskantmutter SW 18/ hexagon nut SW 18

L = Standard length of cable

4-pin, D-coding



1 = yellow 2 = white 3 = orange 4 = blue

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
934803001	0985 508 124/1 M	4	X-FRNC, black	RAIL WE SHOW TO SHOW THE PROPERTY OF THE PROPE
934803002	0985 508 124/2 M	4	X-FRNC, black	RAIL WE THINK THE
934803003	0985 508 124/5 M	4	X-FRNC, black	RAIL WE THINK THE
934803004	0985 508 124/10 M	4	X-FRNC, black	RAIL WE THINK THE
10379	0985 508 124/15 M	4	X-FRNC, black	RAIL WE SHOW THE SHOW
10382	0985 508 124/20 M	4	X-FRNC, black	RAIL WE SHOW THE SHOW
10383	0985 508 124/25 M	4	X-FRNC, black	RALL WE SHOW THE SHOW

Single-Ended Overmolded M12 Data Cordsets for Gigabit Applications – Male Connectors

Technical Information

Product Description		
Order Designation	RSTS 8X-478	BRSTS 8X-552
		The state of the s
Description	Cat 6a single-ended molded data cordsets for Industrial Ethernet gigabit applications (supports data transmission rates of up to 10 gigabits), with M12 male connector, X-coding, 360° shield connected to knurled nut, 8-pin	Cat 6a single-ended molded data cordsets for Industrial Ethernet gigabit applications (supports data transmission rates of up to 10 gigabits), with M12 male connector, X-coding, 360° shield connected to knurled nut, 8-pin and rail approval
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-109	IEC 61076-2-109
	Cable: • ISO/IEC 11801 Cat 7 • EN 50173-1 • TIA/EIA-568-B.2 (May 2001)	Cable: • ISO/IEC 11801 Cat 7 • EN 50173-1 • DIN 5510-2, EN 45545-2 • TIA/EIA-568-B.2 (May 2001)
Approvals	UL	DIN EN 45545-2, DIN EN 50467, DIN EN 61373, based on DIN EN 50155
Technical Data		
Ambient Temperature	-40 °C to +80 °C, mind cable temperature range	-40 °C to +85 °C, mind cable temperature range
Housing Material/Grip		PA
Contact Holder Material		PA
Contact Material/Surface Finish	CuZ	n, Cu/Au
Screw Coupling Material	CuZn, r	nickel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated	to associated counterparts)
Electrical Data		
Contact Resistance	<u> </u>	: 5 mΩ
Rated Voltage		48 V
Rated Current		0.5 A
Pollution Degree	3 as per DIN EN	60664-1 (VDE 0110)
Technical Drawing		
	M12 x 1	M12 x 1

 $L = Standard \ length \ of \ cable$

8-pin, X-coding



1 = white/orange

2 = orange 3 = white/green 4 = green

1 = white/brown

2 = brown 3 = white/blue 4 = blue

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
934809001	RSTS 8X-478/2 M	8	PUR, halogen-free, black	UL (##'))
934809002	RSTS 8X-478/5 M	8	PUR, halogen-free, black	UL (##1))
934809003	RSTS 8X-478/10 M	8	PUR, halogen-free, black	UL (##1))
934809004	RSTS 8X-478/15 M	8	PUR, halogen-free, black	UL (##1))
10391	RSTS 8X-478/20 M	8	PUR, halogen-free, black	UL (##1))
10396	RSTS 8X-478/25 M	8	PUR, halogen-free, black	UL (##1)
934809009	BRSTS 8X-552/2 M	8	PUR, halogen-free, black	RAIL (H+1)
934809010	BRSTS 8X-552/5 M	8	PUR, halogen-free, black	RAIL (H+1)
934809011	BRSTS 8X-552/10 M	8	PUR, halogen-free, black	RAIL (H+1)
934809012	BRSTS 8X-552/15 M	8	PUR, halogen-free, black	RAIL (H+1)
10384	BRSTS 8X-552/20 M	8	PUR, halogen-free, black	RAIL (H+1)
10386	BRSTS 8X-552/25 M	8	PUR, halogen-free, black	RAIL (H+1)

Single-Ended Overmolded M12 Data Cordsets - PROFIBUS® Female Connectors

Technical Information

Product Description		
Order Designation	0975 254 103	0975 254 131 (RKWTS 5B)
Description	PROFIBUS overmolded cordset, M12 female connector, straight, with screw coupling, B-coding, 5-pin	PROFIBUS overmolded cordset, M12 female connector, angled, with screw coupling, B-coding, 5-pin, 360° shield connected to knurled screw, conductor color coding as per Euro standard
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	-
Technical Data		
Ambient Temperature	-25 °C to +85 °C, mind	cable temperature range
Housing Material/Grip	Т	PU
Contact Holder Material	TPU	PBT
Contact Material/Surface Finish	CuZn, go	old-plated
Screw Coupling Material	CuZn, nic	kel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated to associated counterparts)	IP67, IP68, IP69K (only when mated to associated counterparts)
Electrical Data		
Contact Resistance	≤5	mΩ
Rated Voltage	6	0 V
Rated Current	4	A
Pollution Degree		3
Technical Drawing		
	M12×1 S1 OF OF OF OF O13.5	0 16.5 TO 17 TO 18.5 TO 19.5 T

L = Standard length of cable

5-pin, B-coding



1 = n.c. 2 = line A, green 3 = n.c. 4 = line B, red 5 = n.c.

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
55410	0975 254 103/0.3 M	5	PUR, halogen-free, shielded, violet	
86913	0975 254 103/0.6 M	5	PUR, halogen-free, shielded, violet	UL # "
12504	0975 254 103/1 M	5	PUR, halogen-free, shielded, violet	UL (#1) ()
17047	0975 254 103/2 M	5	PUR, halogen-free, shielded, violet	UL () ()
12505	0975 254 103/3 M	5	PUR, halogen-free, shielded, violet	UL (#11) (***)
12506	0975 254 103/5 M	5	PUR, halogen-free, shielded, violet	UL (##)) (***)
34618	0975 254 103/10 M	5	PUR, halogen-free, shielded, violet	UL (##1) (***)
28404	0975 254 103/15 M	5	PUR, halogen-free, shielded, violet	UL (##)) ()
50580	0975 254 103/20 M	5	PUR, halogen-free, shielded, violet	UL (##1) (***)
58900	0975 254 103/25 M	5	PUR, halogen-free, shielded, violet	UL (##1) (***)
9951	0975 254 131/0.3 M	5	PUR, halogen-free, shielded, violet	
9952	0975 254 131/0.6 M	5	PUR, halogen-free, shielded, violet	
9953	0975 254 131/1 M	5	PUR, halogen-free, shielded, violet	
934728001	0975 254 131/2 M	5	PUR, halogen-free, shielded, violet	
5220	0975 254 131/3 M	5	PUR, halogen-free, shielded, violet	
934728002	0975 254 131/5 M	5	PUR, halogen-free, shielded, violet	
934728003	0975 254 131/10 M	5	PUR, halogen-free, shielded, violet	
9954	0975 254 131/15 M	5	PUR, halogen-free, shielded, violet	
9955	0975 254 131/20 M	5	PUR, halogen-free, shielded, violet	
9957	0975 254 131/25 M	5	PUR, halogen-free, shielded, violet	

Single-Ended Overmolded M12 Data Cordsets - PROFIBUS® Male Connectors

Technical Information

Product Description		
Order Designation	0975 254 102	0975 254 132 (RSWTS 5B)
Description	PROFIBUS overmolded cordset, M12 male connector, straight, with screw coupling, B-coding, 5-pin	PROFIBUS overmolded cordset, M12 male connector, angled, with screw coupling, B-coding, 5-pin, 360° shield connected to knurled screw, conductor color coding as per Euro standard
RoHS-compliant (2011/65/EU)	Yes	,
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	_
Technical Data		
Ambient Temperature	-25 °C to +85 °C. mind	cable temperature range
Housing Material/Grip	· ·	PU
Contact Holder Material	TPU	PBT
Contact Material/Surface Finish		old-plated
Screw Coupling Material		ckel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated to associated counterparts)	IP67, IP68, IP69K (only when mated to associated counterparts)
Electrical Data		
Contact Resistance	<5	imΩ
Rated Voltage		0 V
Rated Current		4 A
Pollution Degree		3
Technical Drawing		
	M12×1 Ø1 Ø1 Ø1 Ø13.5	B-Enderung B-Enderung S2 S5.9

 $L = Standard \ length \ of \ cable$

5-pin, B-coding



1 = n.c. 2 = line A, green 3 = n.c. 4 = line B, red 5 = n.c.

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
63558	0975 254 102/0.3 M	5	PUR, halogen-free, shielded, violet	UL ##
89452	0975 254 102/0.6 M	5	PUR, halogen-free, shielded, violet	UL (#1)) (****)
12503	0975 254 102/1 M	5	PUR, halogen-free, shielded, violet	UL (#+1) (****)
17062	0975 254 102/2 M	5	PUR, halogen-free, shielded, violet	(UL (#+1)) (**** ******************************
12502	0975 254 102/3 M	5	PUR, halogen-free, shielded, violet	UL (#+1)) (****)
12501	0975 254 102/5 M	5	PUR, halogen-free, shielded, violet	
34625	0975 254 102/10 M	5	PUR, halogen-free, shielded, violet	UL (#+1)
62291	0975 254 102/15 M	5	PUR, halogen-free, shielded, violet	
47928	0975 254 102/20 M	5	PUR, halogen-free, shielded, violet	(UL (#+1)) (****)
47929	0975 254 102/25 M	5	PUR, halogen-free, shielded, violet	
9958	0975 254 132/0.3 M	5	PUR, halogen-free, shielded, violet	
9959	0975 254 132/0.6 M	5	PUR, halogen-free, shielded, violet	
9960	0975 254 132/1 M	5	PUR, halogen-free, shielded, violet	
934726003	0975 254 132/2 M	5	PUR, halogen-free, shielded, violet	
5221	0975 254 132/3 M	5	PUR, halogen-free, shielded, violet	
934726001	0975 254 132/5 M	5	PUR, halogen-free, shielded, violet	
934726004	0975 254 132/10 M	5	PUR, halogen-free, shielded, violet	
9961	0975 254 132/15 M	5	PUR, halogen-free, shielded, violet	
9962	0975 254 132/20 M	5	PUR, halogen-free, shielded, violet	
9963	0975 254 132/25 M	5	PUR, halogen-free, shielded, violet	

Single-Ended Overmolded M12 Data Cordsets - CANopen®/DeviceNet™ Female Connectors

Product Description				
Order Designation	0935 253 105	0935 253 106		
Description	CANopen®/DeviceNet™ overmolded cordset, thin cable, M12 female connector, straight, with screw coupling, A-coding, 5-pin	CANopen®/DeviceNet™ overmolded cordset, thin cable, M12 female connector, angled, with screw coupling, A-coding, 5-pin		
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL	-		
Technical Data				
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range		
Housing Material/Grip	Т	PU		
Contact Holder Material	Т	PU		
Contact Material/Surface Finish	CuSn, go	old-plated		
Screw Coupling Material	CuZn, nic	ckel-plated		
Mechanical Data				
Degree of Protection	IP67 (only when mated to	o associated counterparts)		
Electrical Data				
Contact Resistance	≤5	imΩ		
Rated Voltage	6	0 V		
Rated Current	4	I A		
Pollution Degree		3		
Technical Drawing				
	M12×1 S1 OE 013.5	28 X C Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y		
	14.5			

^{*}a = 0-ring • L = Standard length of cable

5-pin, A-coding



1 = shield, blank 2 = +24 V, red 3 = GND (0 V), black 4 = CAN_H, white 5 = CAN_L, blue

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
4994	0935 253 105/0.3 M	5	PUR, halogen-free, black	UL * H) C ` \
68012	0935 253 105/0.6 M	5	PUR, halogen-free, black	UL * +
10972	0935 253 105/1 M	5	PUR, halogen-free, black	
15735	0935 253 105/2 M	5	PUR, halogen-free, black	
10973	0935 253 105/3 M	5	PUR, halogen-free, black	
10974	0935 253 105/5 M	5	PUR, halogen-free, black	
15734	0935 253 105/10 M	5	PUR, halogen-free, black	
27310	0935 253 105/15 M	5	PUR, halogen-free, black	
18313	0935 253 105/20 M	5	PUR, halogen-free, black	
44339	0935 253 105/25 M	5	PUR, halogen-free, black	
9964	0935 253 106/0.3 M	5	PUR, halogen-free, black	
9965	0935 253 106/0.6 M	5	PUR, halogen-free, black	* H C Y
72440	0935 253 106/1 M	5	PUR, halogen-free, black	* * * * * * * * * * * * * * * * * * *
934637009	0935 253 106/2 M	5	PUR, halogen-free, black	* * * * * * * * * * * * * * * * * * *
92496	0935 253 106/3 M	5	PUR, halogen-free, black	* * * * * * * * * * * * * * * * * * *
72442	0935 253 106/5 M	5	PUR, halogen-free, black	* * * * * * * * * * * * * * * * * * *
6660	0935 253 106/10 M	5	PUR, halogen-free, black	
11155	0935 253 106/15 M	5	PUR, halogen-free, black	
9968	0935 253 106/20 M	5	PUR, halogen-free, black	
9969	0935 253 106/25 M	5	PUR, halogen-free, black	

Single-Ended Overmolded M12 Data Cordsets - CANopen®/DeviceNet™ Male Connectors

Technical Information

Product Description		
Order Designation	0935 253 104	0935 253 107
		•
Description	CANopen®/DeviceNet™ overmolded cordset, thin cable, M12 male connector, straight, with screw coupling, A-coding, 5-pin	CANopen®/DeviceNet™ overmolded cordset, thin cable, M12 male connector, angled, with screw coupling, A-coding, 5-pin
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	-
Technical Data		
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range
Housing Material/Grip	Т	PU
Contact Holder Material	ī	PU
Contact Material/Surface Finish	CuSn, nickel unde	rlay and gold-plated
Screw Coupling Material	CuZn, nic	ckel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated to	o associated counterparts)
Electrical Data		
Contact Resistance	≤5	5 mΩ
Rated Voltage	6	0 V
Rated Current	4	4 A
Pollution Degree		3
Technical Drawing		
	M12x1 91 99 14.5	32 YXZH 14.5 Sg2

 $L = Standard \ length \ of \ cable$

5-pin, A-coding



1 = shield wire 2 = red 3 = black 4 = white 5 = blue

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
934637388	0935 253 104/0.3 M	5	PUR, halogen-free, black	UL * + 1
83982	0935 253 104/0.6 M	5	PUR, halogen-free, black	UL 🗼 🗐 🗀
10969	0935 253 104/1 M	5	PUR, halogen-free, black	UL 🗼 🖦 🗀
30602	0935 253 104/2 M	5	PUR, halogen-free, black	UL (**)
10970	0935 253 104/3 M	5	PUR, halogen-free, black	(UL) (# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
10971	0935 253 104/5 M	5	PUR, halogen-free, black	(UL) (# 1) (C) (T) (C)
18314	0935 253 104/10 M	5	PUR, halogen-free, black	
27309	0935 253 104/15 M	5	PUR, halogen-free, black	
54879	0935 253 104/20 M	5	PUR, halogen-free, black	
107860	0935 253 104/25 M	5	PUR, halogen-free, black	UL (**)
9970	0935 253 107/0.3 M	5	PUR, halogen-free, black	
9972	0935 253 107/0.6 M	5	PUR, halogen-free, black	* * * *
9975	0935 253 107/1 M	5	PUR, halogen-free, black	* * * * * * * * * * * * * * * * * * * *
9976	0935 253 107/2 M	5	PUR, halogen-free, black	* * * *
92481	0935 253 107/3 M	5	PUR, halogen-free, black	
268	0935 253 107/5 M	5	PUR, halogen-free, black	
9977	0935 253 107/10 M	5	PUR, halogen-free, black	
9978	0935 253 107/15 M	5	PUR, halogen-free, black	
9979	0935 253 107/20 M	5	PUR, halogen-free, black	
9980	0935 253 107/25 M	5	PUR, halogen-free, black	* * * *

Single-Ended Overmolded M12 Data Cordsets - AS Interface Male Connectors

Product Description					
Order Designation	0915 340 102				
Description	AS Interface cordset, M12 overmolded male connector, straight, with screw coupling, A-coding, 4-pin				
RoHS-compliant (2011/65/EU)	Yes				
(Construction Type) Standard	IEC 61076-2-101				
Approvals	UL				
Technical Data					
Ambient Temperature	-25 °C to +70 °C, mind cable temperature range				
Housing Material/Grip	PVC				
Contact Holder Material	PVC				
Contact Material/Surface Finish	CuZn, nickel underlay and gold-plated				
Screw Coupling Material	Stainless steel				
Mechanical Data					
Degree of Protection	IP67, IP69K (only when mated to associated counterparts)				
Electrical Data					
Contact Resistance	≤5 mΩ				
Rated Voltage	250 V				
Rated Current	4 A				
Pollution Degree	3				
Technical Drawing					
	<u>M12×1</u>				
	<u>Ø1₁₁-</u>				
	\$\frac{43.5}{49.5}\$				
	•3				
	φ8.8				
	ø 10.3				
	φ · · · · · · · · · · · · · · · · · · ·				
	_ SW14_				

^{*}a = 0-ring supplied loose • L = Standard length of cable

4-pin, A-coding



1 = brown 2 = white 3 = blue 4 = black

Order No.	Order Designation	No. of Pins	Jacket	Characteristics
9981	0915 340 102/0.3 M	4	PVC, black	UL ()
9982	0915 340 102/0.6 M	4	PVC, black	UL ()
9983	0915 340 102/1 M	4	PVC, black	UL ()
9985	0915 340 102/2 M	4	PVC, black	UL (• • • • • • • • • • • • • • • • • •
9986	0915 340 102/3 M	4	PVC, black	UL ()
76305	0915 340 102/5 M	4	PVC, black	UL ()
72243	0915 340 102/10 M	4	PVC, black	UL C
9987	0915 340 102/15 M	4	PVC, black	UL ()
72245	0915 340 102/20 M	4	PVC, black	UL C
96142	0915 340 102/25 M	4	PVC, black	UL C

Field Attachable M12 Connectors for Actuators and Sensors - Standard Female Connectors

Product Description		
Order Designation	ELKA	ELKA transparent
Description	Field attachable connector, M12 female connector, straight, with screw coupling, assembly using screw-type terminals, strain relief via clamping cage	Field attachable connector, M12 female connector, straight, with screw coupling, assembly using screw-type terminals, electronics unit for LED indicators can be mounted, strain relief via clamping cage
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	CSA	
Technical Data		
Ambient Temperature	-25 °C t	o +90 °C
Housing Material/Grip	F	PA
Contact Holder Material	F	PA
Contact Material/Surface Finish	CuZn, Sn (Au ve	rsions: CuZn, Au)
Screw Coupling Material	ZnAI/Ni (ELKA 401	2 K PG 7: PA plastic)
Mechanical Data		
Degree of Protection	IP65, IP67 (only when mate	d to associated counterparts)
Electrical Data		
Contact Resistance	≤5	mΩ
Rated Voltage	up to 4-pin 25	50 V, 5-pin 60 V
Rated Current		A
Pollution Degree		3
Technical Drawing		
	© 20	© 20 M 12 ©

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
933139100	ELKA 4012 PG 7	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA 🎦
933725100	ELKA 4012 K PG 7	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA 🎾
933139500	ELKA 4012 PG 7 Au	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA 🎾
933169100	ELKA 4012 PG 9	4	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (PG 9)	CSA 🎾
933169500	ELKA 4012 PG 9 Au	4	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (PG 9)	CSA 🎾
933170100	ELKA 5012 PG 7	5	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA 🎾
933171100	ELKA 5012 PG 9	5	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (PG 9)	CSA 🎦
933171500	ELKA 5012 PG 9 Au	5	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (PG 9)	CSA 🎾
933210199	ELKA 4012 PG 7 transparent	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA 🍗

Conversion table mm² to AWG on page 20.

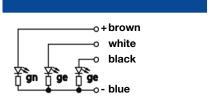
Field Attachable M12 Connectors for Actuators and Sensors - Standard Female Connectors

Product Description		
Order Designation	RKC	RKC/LED
Description	Field attachable connector, M12 female connector, straight, with screw coupling, assembly using screw-type terminals	Field attachable connector, M12 female connector, straight, with screw coupling and LED operation and function indicators, assembly using screw-type terminals, including printed circuit board
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	
Technical Data		
Ambient Temperature	-25 °C t	0 +90 °C
Housing Material/Grip	P	ВТ
Contact Holder Material	P	ВТ
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn (8-pin: CuZn, gold over nickel plating)	CuZn, copper underlay, CuSnZn
Screw Coupling Material	CuZn, nic	kel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated to	associated counterparts)
Electrical Data		
Contact Resistance	-	mΩ
Rated Voltage	3 and 4-pin 250 V, 5-pin 60 V, 8-pin 30 V	30 V
Rated Current	4 A (8-pin 2 A)	4 A
Pollution Degree		3
Technical Drawing		
	#12x1 *B	M12x1 20 20 4b 5W 4c

^{*}a = 0-ring \bullet $*b = Seal <math>\bullet$ *c = Cap nut

3-pin	4-pin	5-pin	8-pin
3 0 0 0 1	3000	3 0 0 0 0 1	3 0 0 0 7 2 8 1

Circuit Diagram



Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
11212	RKC 4/3/7	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL UL
11213	RKC 4/3/9	3	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	TUL UL
11214	RKC 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL UL
11215	RKC 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL UL
11220	RKC 5/7	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL UL
11221	RKC 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL
44995	RKC 8/9	8	screw	max. 0.50 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL
69993	RKC/LED 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL
93983	RKC/LED 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL UL

Conversion table mm² to AWG on page 20.

Field Attachable M12 Connectors for Actuators and Sensors - Standard Female Connectors

Product Description							
Order Designation	ELWIKA	ELWIKA transparent					
Description	Field attachable connector, M12 female connector, angled, with screw coupling, assembly using screw-type terminals, strain relief via clamping cage	Field attachable connector, M12 female connector, angled, with screw coupling, assembly using screw-type terminals, electronics unit for LED indicators can be mounted, strain relief via clamping cage					
RoHS-compliant (2011/65/EU)	Yes						
(Construction Type) Standard	IEC 61076-2-101						
Approvals	CSA						
Technical Data							
Ambient Temperature	-25 °C	to +90 °C					
Housing Material/Grip		PA					
Contact Holder Material		PA					
Contact Material/Surface Finish	CuZn/Sn (ELWIKA 50	012 PG 9 Au: CuZn/Au)					
Screw Coupling Material	ZnAI/Ni (ELWIKA 40	12 K PG 7: PA plastic)					
Mechanical Data							
Degree of Protection	IP65, IP67 (only when mate	d to associated counterparts)					
Electrical Data							
Contact Resistance		0 mΩ					
Rated Voltage		50 V, 5-pin 60 V					
Rated Current		1 A					
Pollution Degree		3					
Technical Drawing							
	30,5 ≈10 L to de	30,5 ≈10 10 10 10 10 10 10 10 10 10 10 10 10 10 1					
	30,5 ≈10 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □						

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
933172100	ELWIKA 4012 PG 7	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA CSA
933726100	ELWIKA 4012 K PG 7	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA CSA
933174100	ELWIKA 4012 PG 9	4	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (PG 9)	CSA CSA
933175100	ELWIKA 5012 PG 7	5	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA CSA
933176100	ELWIKA 5012 PG 9	5	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (PG 9)	CSA CSA
933176500	ELWIKA 5012 PG 9 Au	5	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (PG 9)	CSA CSA
933173199	ELWIKA 4012 PG 7 transparent	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (PG 7)	CSA CSA

Conversion table mm² to AWG on page 20.

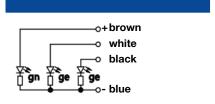
Field Attachable M12 Connectors for Actuators and Sensors - Standard Female Connectors

Product Description			
Order Designation	RKCW	RKCW/LED	
Description	Field attachable connector, M12 female connector, angled, with screw coupling, assembly using screw-type terminals	Field attachable connector, M12 female connector, angled, with screw coupling and LED operation and function indicators, assembly using screw-type terminals, including printed circuit board	
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	UL		
Technical Data			
Ambient Temperature	-25 °C	to +90 °C	
Housing Material/Grip	F	PBT	
Contact Holder Material	F	PBT	
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn (8-pin: CuZn, nickel underlay and gold-plated)	CuZn, copper underlay, CuSnZn	
Screw Coupling Material	CuZn, ni	ckel-plated	
Mechanical Data			
Degree of Protection	IP67 (only when mated t	to associated counterparts)	
Electrical Data			
Contact Resistance	≤!	5 mΩ	
Rated Voltage	3 to 4-pin 250 V, 5-pin 60 V, 8-pin 30 V	30 V	
Rated Current	4 A (8-pin 2 A)	4 A	
Pollution Degree		3	
Technical Drawing			
	35 20 *d 55 55 55 55 55 55 55 55 55 55 55 55 55	35 VXZIX ***********************************	

^{*}a = 0-ring • *b = Seal • *c = Cap nut • *d = Insert can be rotated 90°

3-pin	4-pin	5-pin	8-pin	
3 0 0 0 1	3 0 0	3 0 0 0 1	3 0 0 0 7 2 8 1	

Circuit Diagram



Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
11256	RKCW 4/3/7	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗
11257	RKCW 4/3/9	3	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗
11258	RKCW 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗
11259	RKCW 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗
11260	RKCW 5/7	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗
11261	RKCW 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗
45006	RKCW 8/9	8	screw	max. 0.50 mm ²	Ø 4.0 to 8.0 mm (AF 19)	
69994	RKCW/LED 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗
93984	RKCW/LED 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗

Conversion table mm² to AWG on page 20.

Field Attachable M12 Connectors for Actuators and Sensors - Shielded Female Connectors

Order Designation	RKCQ	RKCWQ					
Description	Field attachable connector, M12 female connector, straight, with screw coupling, assembly using spring-type terminals	Field attachable connector, M12 female connector, angled, with screw coupling, assembly using spring-type terminals					
RoHS-compliant (2011/65/EU)	Yes						
(Construction Type) Standard	IEC 61076-2-101						
Approvals	-						
Technical Data							
Ambient Temperature	-25 °C	to +90 °C					
Housing Material/Grip	PBT						
Contact Holder Material	F	PBT					
Contact Material/Surface Finish	Stainless steel, silv	er-plated, gold-plated					
Screw Coupling Material	CuZn, ni	ckel-plated					
Mechanical Data							
Degree of Protection	IP67 (only when mated t	o associated counterparts)					
Electrical Data							
Contact Resistance	≤!	5 mΩ					
Rated Voltage	2	50 V					
Rated Current		4 A					
Pollution Degree		3					
Technical Drawing							
	M12x1 N 12x1 N 12x1 N 12x1 N 12x1	Co. 75 D-Byrg D-Byrg					

^{*}a = 0-ring \bullet $*b = Seal <math>\bullet$ *c = Cap nut

4-pin



Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
58836	RKCQ 4/7	4	spring	0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 3.0 to 6.5 mm (AF 15)	
69507	RKCQ 4/9	4	spring	0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 4.0 to 8.0 mm (AF 19)	
103747	RKCWQ 4/7	4	spring	0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 4.0 to 6.5 mm (AF 15)	
103751	RKCWQ 4/9	4	spring	0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 4.0 to 8.0 mm (AF 19)	

Conversion table mm² to AWG on page 20.

Field Attachable M12 Connectors for Actuators and Sensors – Female Connectors for Food & Beverage

Product Description					
Order Designation	RKCN	RKCWN			
Description	Field attachable connector, M12 female connector, straight, with stainless steel hexagonal screw coupling, assembly using screw-type terminals	Field attachable connector, M12 female connector, angled, with stainless steel hexagonal screw coupling, assembly using screw-type terminals			
Note	Especially suitable for use in the food processing equipment.				
RoHS-compliant (2011/65/EU)	Yes				
(Construction Type) Standard	IEC 61076-2-101				
Approvals	UL				
Technical Data					
Ambient Temperature	-25 °C to +90 °C (8-pin -25 °C to +85 °C)				
Housing Material/Grip	PBT (8-	-pin: PA)			
Contact Holder Material	PBT (8-pin: PA)				
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn (8	-pin: CuZn, gold over nickel plating)			
Screw Coupling Material	Stainle	ess steel			
Mechanical Data					
Degree of Protection	IP67 (only when mated to	o associated counterparts)			
Electrical Data					
Contact Resistance	≤5	mΩ			
Rated Voltage		in 60 V, 8-pin 30 V			
Rated Current		A, 8-pin 2 A			
Pollution Degree		3			
Technical Drawing					
	9 20 M12 x1 SW 19	35 • • • • • • • • • • • • • • • • • • •			

^{*}a = 0-ring • *b = Seal • *c = Cap nut • *d = Insert can be rotated 90°

4-pin	5-pin	8-pin
3000		$ \begin{array}{c} 4 \\ 5 \\ 6 \\ 3 \\ 2 \\ 8 \end{array} $

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
18321	RKCN 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL P
30544	RKCN 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL P
46897	RKCN 5/7	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL P
46594	RKCN 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL P
51351	RKCN 8/9	8	screw	max. 0.50 mm ²	Ø 3.0 to 6.5 mm (AF 15)	
18322	RKCWN 4/7	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL P
30545	RKCWN 4/9	4	screw	max. 0.50 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL P
28331	RKCWN 5/7	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL P
47735	RKCWN 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL P

Conversion table mm² to AWG on page 20.

Field Attachable M12 Connectors for Actuators and Sensors - Shielded Female Connectors

Product Description				
Order Designation	RKCS	RKCQS	EF 12S	
Description	Field attachable connector, M12 female con- nector, with screw coupling, can be shielded, assembly using screw-type terminals, A-coding	Field attachable connector, M12 female con- nector, with screw coupling, can be shielded, assembly using spring-type terminals, A-coding	Field attachable connector, M12 female connector, with screw coupling, can be shielded, assembly using spring-type terminals	
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	-		UL	
Technical Data				
Ambient Temperature	-25 °C t	o +90 °C	-25 °C to +85 °C	
Housing Material/Grip	GD-ZnAl, n	ickel-plated	CuZn, nickel-plated	
Contact Holder Material	PBT, RKCS 8/9: PA	PBT	PA	
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn	Spring steel, silver-plated and gold-plated	CuSn, gold-plated	
Screw Coupling Material	CuZn, nic	kel-plated	CuZn, nickel-plated	
Mechanical Data				
Degree of Protection	I	P67 (only when mated to associated counterpar	ts)	
Electrical Data				
Contact Resistance		≤ 10 mΩ	_	
Rated Voltage	4-pin 250 V, 5-pin 60 V, 8-pin 30 V	250 V	2-pin 60 V, 4-pin 250 V, 5-pin 60 V	
Rated Current	4 to 5-pin 4 A, 8-pin 2 A	4	Α	
Pollution Degree		3		
Technical Drawing				
	Guilleuise and Tour Sty. Guilleuise and Tour Sty. grap disense with fair Sty. Guilleuise and Tour Sty. Guilleuise and	Enthuse net for 10- grip stone with 10-10 Storie-reg 10 10 10 10 10 10 10 10 10 10 10 10 10	9 17 M2 11 1 2 2	

3-pin	4-pin	5-pin	8-pin
3 0 0 4		3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c} 4 & 5 \\ 0 & 0 \\ 0 & 0 \\ 2 & 8 \\ 1 \end{array} $

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
7376	RKCS 4/7	4	screw	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	(H+1)) (
56437	RKCS 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	(H+1)) (
56439	RKCS 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	(H+1))
59923	RKCS 8/9	8	screw	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	(H+1)) (
11156	RKCQS 4/3/9	3	spring	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	(H+1))
69511	RKCQS 4/9	4	spring	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	(H+1))
934446003	EF 12S4A	4	spring	0.25 to 0.34 mm ²	Ø 6.0 to 8.0 mm	UL (#*)) `
934446004	EF 12S5A	5	spring	0.25 to 0.34 mm ²	Ø 6.0 to 8.0 mm	UL (##'))

Conversion table mm² to AWG on page 20.

Field Attachable M12 Duo Connectors for Actuators and Sensors - Duo Female Connectors

Technical Information

Product Description				
Order Designation	RKC DUO	RKCN DUO		
Description	Field attachable connector, M12 Duo female connector, straight, with screw coupling, for connection of two cables, assembly using screw-type terminals	Field attachable connector, M12 Duo female connector, straight, with stainless steel hexagonal screw coupling, for connection of two cables assembly using screw-type terminals		
Note	-	Especially suitable for use in the food processing equipment.		
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	-			
Technical Data				
Ambient Temperature	-25 °C t	o +90 °C		
Housing Material/Grip	P	BT		
Contact Holder Material	P	BT		
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn			
Screw Coupling Material	CuZn, nickel-plated	Stainless steel		
Mechanical Data				
Degree of Protection	IP67 (only when mated to	associated counterparts)		
Electrical Data				
Contact Resistance	≤5	mΩ		
Rated Voltage	4-pin 250 V, 5-pi	n 60 V, 8-pin 30 V		
Rated Current	4 and 5-pin	4 A, 8-pin 2 A		
Pollution Degree		3		
Technical Drawing				
	M12x1 Pg 11	# a Pg 11		

*a = 0-ring

4-pin	5-pin	8-pin	
3 0 0 4	3 0 0 4 0 0 0 1	3 (000) 7 2 8 1	

Order Information

Order No.	Order Designation	No. of Pins	Conductor Size	Cable Range	Characteristics
18235	RKC 4/DUO	4	max. 0.75 mm ²	2 x 3 mm/2 x 5 mm	
18234	RKC 5/DU0	5	max. 0.75 mm ²	2 x 3 mm/2 x 5 mm	
49913	RKC 8/DUO	8	max. 0.50 mm ²	2 x 3 mm/2 x 5 mm	
18237	RKCN 4/DUO	4	max. 0.75 mm ²	2 x 3 mm/2 x 5 mm	
42612	RKCN 5/DU0	5	max. 0.75 mm ²	2 x 3 mm/2 x 5 mm	

Conversion table mm² to AWG on page 20.

Field Attachable M12 Connectors for Actuators and Sensors - Standard Male Connectors

Technical Information

Product Description				
Order Designation	RSC/ELST	RSCW/ELWIST	RSCQ	
Description	connector, straight, with screw coupling, connector, angled, with screw coupling, connector, straight		Field attachable connector, M12 male connector, straight, with screw coupling, assembly using spring-type terminals	
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	RSC/RSCW: UL (8-pin assembled: no UL app ELST/ELWIST: CSA	proval)	-	
Technical Data				
Ambient Temperature		-25 °C to +90 °C		
Housing Material/Grip	PA 66	PE	ВТ	
Contact Holder Material	PA 66	PE	ВТ	
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZi	n (8-pin: nickel underlay, gold-plated)	Stainless steel, silver-plated, gold-plated	
Screw Coupling Material	ZnAl Cu	CuZn, nicl	kel-plated	
Mechanical Data				
Degree of Protection		IP67 (only when mated to associated counterpart	ts)	
Electrical Data				
Contact Resistance		≤ 10 mΩ		
Rated Voltage	3 to 4-pin 250 V	, 5-pin 60 V, 8-pin 30 V	250 V	
Rated Current	3 and 5-p	in 4 A, 8-pin 2 A	4 A	
Pollution Degree		3		
Technical Drawing				
	Dimensions for ELST may differ	Dimensions for ELWIST may differ	19 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

^{*}a = 0-ring $\bullet *b = Seal \bullet *c = Cap nut$

Pin Assignment

3-pin	4-pin	5-pin	8-pin
4 · · · · · · · · · · · · · · · · · · ·	3	4 • • 3 1 • 2	7 (3 3 3 1 2 2
		Contact 5 leading	6

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
933098100	ESLT 4012 PG 7	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (AF 15)	CSA 🍗
933727100	ELST 4012 K PG7	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (AF 15)	CSA 🍗
933098500	ELST 4012 PG 7 Au	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (AF 15)	CSA 🍗
933162100	ELST 4012 PG 9	4	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (AF 19)	CSA 🍗
933162500	ELST 4012 PG 9 Au	4	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (AF 19)	CSA 🍗
933163100	ELST 5012 PG 7	5	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (AF 15)	CSA 🍗
933164100	ELST 5012 PG 9	5	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (AF 19)	CSA 🏲
933164500	ELST 5012 PG 9 Au	5	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (AF 19)	CSA TO
11576	RSC 3/7	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL Y
11577	RSC 3/9	3	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗
11584	RSC 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL Y
11585	RSC 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL Y
11590	RSC 5/7	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL Y
11591	RSC 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL Y
44971	RSC 8/9	8	screw	max. 0.50 mm ²	Ø 4.0 to 8.0 mm (AF 19)	
933165100	ELWIST 4012 PG 7	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (AF 15)	CSA 🎾
933728100	ELWIST 4012 K PG 7	4	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (AF 15)	CSA 🎾
933166100	ELWIST 4012 PG 9	4	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (AF 19)	CSA 🎾
933167100	ELWIST 5012 PG 7	5	screw	max. 0.75 mm ²	Ø 4.0 to 6.0 mm (AF 15)	CSA 🎾
933168100	ELWIST 5012 PG 9	5	screw	max. 0.75 mm ²	Ø 6.0 to 8.0 mm (AF 19)	CSA 🎾
11599	RSCW 3/7	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗
11600	RSCW 3/9	3	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗
11603	RSCW 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗
11604	RSCW 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗
11605	RSCW 5/7	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗
11606	RSCW 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗
44994	RSCW 8/9	8	screw	max. 0.50 mm ²	Ø 4.0 to 8.0 mm (AF 19)	
71306	RSCQ 3/7	3	spring	0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 3.0 to 6.5 mm (AF 15)	
71307	RSCQ 3/9	3	spring	0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 4.0 to 8.0 mm (AF 19)	
58838	RSCQ 4/7	4	spring	0.14 mm² with ferrule 0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 3.0 to 6.5 mm (AF 15)	
69225	RSCQ 4/9	4	spring	0.14 to 0.50 mm²,	Ø 4.0 to 8.0 mm (AF 19)	
				0.14 mm ² with ferrule		

Conversion table mm² to AWG on page 20.

Field Attachable M12 Connectors for Actuators and Sensors – Male Connectors for Food & Beverage

Product Description						
Order Designation	RSCN	RSCWN				
Description	Field attachable connector, M12 male connector, straight, with stainless steel hexagonal screw coupling, assembly using screw-type terminals					
Note	Especially suitable for use in the food processing equipment.					
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101					
Approvals	UL					
Technical Data						
Ambient Temperature	-25 °C to +90 °C, 8-pin: -25 °C to +85 °C	-25 °C to +90 °C				
Housing Material/Grip	PBT					
Contact Holder Material	PBT					
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn (8-pin: nickel underlay, gold-plated)	CuZn, copper underlay, CuSnZn				
Screw Coupling Material	Stainless steel					
Mechanical Data						
Degree of Protection	IP67 (only when mated to	o associated counterparts)				
Electrical Data						
Contact Resistance) mΩ				
Rated Voltage	4-pin 250 V, 5-pin 60 V, 8-pin 30 V	4-pin 250 V, 5-pin 60 V				
Rated Current	4 to 5-pin 4 A, 8-pin 2 A	4 A				
Pollution Degree		3				
Technical Drawing						
	M12x1 91 SW19 SW19	40 • 21 • 3 • 4 • 5 • 5 • 5 • 5 • 5 • 5 • 5 • 6				

^{*}a = 0-ring \bullet $*b = Seal <math>\bullet$ *c = Cap nut

4-pin	5-pin	8-pin	
4 3 1 2	4 • • • 3 · · · · · · · · · · · · · · · ·	7 0 4 3	

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
18319	RSCN 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 🖹
30542	RSCN 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗 🖹
28330	RSCN 5/7	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 🖹
30546	RSCN 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗 🖹
51352	RSCN 8/9	8	screw	max. 0.50 mm ²	Ø 4.0 to 8.0 mm (AF 19)	
18320	RSCWN 4/7	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 🖹
30543	RSCWN 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗 🖹
46901	RSCWN 5/7	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 🖹
47756	RSCWN 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗 🖨

Conversion table mm² to AWG on page 20.

Field Attachable M12 Connectors for Actuators and Sensors - Shielded Male Connectors

Product Description						
Order Designation	RSCS	RSCQS	EM12S			
Description	connector, straight, with screw coupling, can be shielded, assembly using screw-type connector, straight, with screw coupling, can be shielded, assembly using spring-type		Field attachable connector, M12 male connector, straight, with screw coupling, assembly using insulation displacement termination			
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101					
Approvals	-		UL			
Technical Data						
Ambient Temperature	-12 °C t	o +90 °C	-25 °C to +85 °C			
Housing Material/Grip	GD-ZnAl, n	ickel-plated	CuZn, nickel-plated			
Contact Holder Material	PBT, RSCS 8/9: PA	PBT	PA			
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn Stainless steel, silver-plated and gold-plate		CuSn, gold-plated			
Screw Coupling Material		CuZn, nickel-plated				
Mechanical Data						
Degree of Protection	I	P67 (only when mated to associated counterpart	ts)			
Electrical Data						
Contact Resistance		≤ 5 mΩ				
Rated Voltage	4-pin 250 V, 5-pin 60 V, 8-pin 30 V	250 V	4-pin 250 V, 5-pin 60 V			
Rated Current	4 to 5-pin 4 A, 8-pin 2 A	<u> </u>	A			
Pollution Degree		3				
Technical Drawing						
	to Place with SW 50 gray of the SW 50 gray of th	Graftsdar and Tw 50 group states with Star 5	0 17 M12 M12 2 3 SW14			

4-pin	5-pin	8-pin	
4 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 • • 3 1 • • 2	7 0 3	

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
56436	RSCS 4/9	4	screw	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	(H+1)
56438	RSCS 5/9	5	screw	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	[H+1)
59922	RSCS 8/9	8	screw	max. 0.75 mm ²	Ø 4.0 to 9.0 mm	[H+1)
71308	RSCQS 3/9	3	screw	0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 4.0 to 9.0 mm	[H+1)
69509	RSCQS 4/9	4	screw	0.14 to 0.50 mm², 0.14 mm² with ferrule	Ø 4.0 to 9.0 mm	[H+1)
934445003	EM 12S4A	4	Insulation Displace- ment Termination	0.25 to 0.34 mm ²	Ø 6.0 to 8.0 mm	UL (##'))
934445004	EM 12S5A	5	Insulation Displace- ment Termination	0.25 to 0.34 mm ²	Ø 6.0 to 8.0 mm	UL (#*))

Field Attachable M12 Duo Connectors for Actuators and Sensors - Duo Male Connectors

Product Description		
Order Designation	RSC DUO	RSCN DUO
Description	Field attachable connector, M12 Duo male connector, straight, with screw coupling, for connection of two cables, assembly using screw-type terminals	Field attachable connector, M12 Duo male connector, straight, with stainless steel hexagonal screw coupling, for connection of two cables, assembly using screw-type terminals
Note	-	Especially suitable for use in the food processing equipment.
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	-	
Technical Data		
Ambient Temperature	-25 °C	to +90 °C
Housing Material/Grip	· ·	PBT
Contact Holder Material	PA	PBT
Contact Material/Surface Finish	CuZn, copper	underlay, CuSnZn
Screw Coupling Material	CuZn, nickel-plated	Stainless steel
Mechanical Data		
Degree of Protection	IP67 (only when mated t	o associated counterparts)
Electrical Data		
Contact Resistance	≤!	5 mΩ
Rated Voltage	4-pin 250 V, 5-p	in 60 V, 8-pin 30 V
Rated Current	4 and 5-pin	4 A, 8-pin 2 A
Pollution Degree		3
Technical Drawing		
	91 Pg11	9 20 M12 X1 91 Pg11 IZ 6 SW 19

^{*}a = 0-ring

4-pin	5-pin	8-pin
1 3	1 5 2	7 0 3

Order Information

Order No.	Order Designation	No. of Pins	Conductor Size	Cable Range	Characteristics
18236	RSC 4/DUO	4	max. 0.75 mm ²	2 x 3 mm/2 x 5 mm	
18233	RSC 5/DU0	5	max. 0.75 mm ²	2 x 3 mm/2 x 5 mm	~
49569	RSC 8/DU0	8	max. 0.50 mm ²	2 x 3 mm/2 x 5 mm	1
18323	RSCN 4/DUO	4	max. 0.75 mm ²	2 x 3 mm/2 x 5 mm	
45491	RSCN 5/DUO	5	max. 0.75 mm ²	2 x 3 mm/2 x 5 mm	

Field Attachable 1/2" UNF Connectors for Actuators and Sensors – Female Connectors

Product Description		
Order Designation	RKC 3U	RKCW 3U
Description	Field attachable connector, 1/2" UNF female connector, straight, C- or U-coding, with screw coupling, assembly using screw-type terminals, 3-pin	Field attachable connector, 1/2" UNF female connector, angled, C- or U-coding, with screw coupling, assembly using screw-type terminals, 3-pin
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	based on IEC 61076-2-101	
Approvals	UL	
Technical Data		
Ambient Temperature	-25 °C	C to +90 °C
Housing Material/Grip		PBT
Contact Holder Material		PBT
Contact Material/Surface Finish	CuZn, copper	underlay, CuSnZn
Screw Coupling Material	CuZn, r	nickel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated	to associated counterparts)
Electrical Data		
Contact Resistance	<u> </u>	5 mΩ
Rated Voltage	:	250 V
Rated Current		4 A
Pollution Degree		3
Technical Drawing		
	1/2'-20UNF-2B *a *b	33 20 20 50 50 50 50 50 50

^{*} a = Seals • *b = Cap nut

3-pin, U-coding



1 = green/yellow 2 = blue 3 = brown

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
11210	RKC 3U/7	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm	UL 🍗 🖦
11211	RKC 3U/9	3	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm	UL 🍗 🖦
11254	RKCW 3U/7	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm	UL 🍗 🖦
11255	RKCW 3U/9	3	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm	UL 🍗 🖦

Field Attachable 1/2" UNF Connectors for Actuators and Sensors - Male Connectors

Technical Information

Product Description		
Order Designation	RSC 3U	RSCW 3U
Description	Field attachable connector, 1/2" UNF male connector, straight, C- (or U-)coding, with screw coupling, assembly using screw-type terminals, 3-pin	Field attachable connector, 1/2" UNF male connector, angled, C- (or U-)coding, with screw coupling, assembly using screw-type terminals, 3-pin
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	based on IEC 61076-2-101	
Approvals	UL	
Technical Data		
Ambient Temperature	-25 °C	to +90 °C
Housing Material/Grip	F	PBT
Contact Holder Material	F	PBT
Contact Material/Surface Finish	CuZn, copper u	ınderlay, CuSnZn
Screw Coupling Material	CuZn, nic	ckel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated t	o associated counterparts)
Electrical Data		
Contact Resistance		5 mΩ
Rated Voltage	25	50 V
Rated Current	4	4 A
Pollution Degree		3
Technical Drawing		
	1/2'-20UNF-2A 20	*a 20

RSC 3U: *a = Insert can be rotated 90° • *b= 0-ring • *c = Seal • *d = Cap nut RSCW 3U: *a = 0-ring • *b = Seal • *c = Cap nut

3-pin, U-coding



Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
11582	RSC 3U/7	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 느
11583	RSC 3U/9	3	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗 느
11601	RSCW 3U/7	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 🖦
11602	RSCW 3U/9	3	screw	max. 0.75 mm ²	Ø 4.0 to 8.0 mm (AF 19)	UL 🍗 느

Field Attachable 1/2" UNF Connectors for Actuators and Sensors - Male Connectors

Product Description	
Order Designation	RSFU
Description	Receptacle connector, 1/2" UNF male connector, straight, C- (or U-)coding
RoHS-compliant (2011/65/EU)	Yes
(Construction Type) Standard	similar to IEC 61076-2-101
Approvals	UL
Technical Data	
Ambient Temperature	-25 °C to +80 °C, mind cable temperature range
Housing Material/Grip	CuZn, nickel-plated
Contact Holder Material	PA
Contact Material	CuZn
Surface Finish	Nickel-plated and gold-plated
Mechanical Data	
Degree of Protection	IP67 (only when mated to associated counterparts)
Electrical Data	
Contact Resistance	≤5 mΩ
Rated Voltage	3 and 4-pin 250 V, 5-pin 60 V
Rated Current	4 A
Pollution Degree	3
Technical Drawing	
	1/2'-20UNF-1A SP 1/4'-18 NPT

^{*}a = 0-ring \bullet *b = Terminal area potted

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
11626	RSF 3U/0.5 M	3	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 🖦
109638	RSF 4U/1 F	4	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 느
11637	RSF 5U/0.5 M	5	screw	max. 0.75 mm ²	Ø 3.0 to 6.5 mm (AF 15)	UL 🍗 느

Field Attachable M12 Data Cordsets - Industrial Ethernet - Male Connectors

Product Description		
Order Designation	RSCIS 4D/9	BRSCIS 4D/9
Description	Field attachable connector, M12 male connector, with screw coupling, shielded, insulation displacement connection, 4-pin, D-coding	Field attachable connector, M12 male connector, with screw coupling, shielded, insulation displacement connection, 4-pin, D-coding
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	DIN EN 50155, DIN EN 45545-2, DIN EN 50467, DIN EN 61373
Technical Data		
Ambient Temperature	-40 °C t	0 +85 °C
Housing Material/Grip	CuZn, nic	kel-plated
Contact Holder Material	F	PA PA
Contact Material/Surface Finish	CuZn, nicke	l/gold-plated
Screw Coupling Material	CuZn, nic	kel-plated
Mechanical Data		
Degree of Protection	IP65, IP67 (only when mater	d to associated counterparts)
Electrical Data		
Contact Resistance	≤1() mΩ
Rated Voltage		50 V
Rated Current		Α
Pollution Degree		3
Technical Drawing		
	Werregologischrade locking screw Lichtungserschrade coale daud 45.4 65.5 M 12 c 1 SW 15.	Were explangual trade locking surve Lichtagour extractioning collections At 12 x 1 M 12 x 1

4-pin, D-coding



Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Cable Range	Characteristics
934828002	RSCIS 4D/9	4	IDC	0.25 to 0.34 mm ²	PG 9: Ø 6.0 to 8.0 mm	
934828001	BRSCIS 4D/9	4	IDC	0.25 to 0.34 mm ²	PG 9: Ø 6.0 to 8.0 mm	RAIL (+1))

Conversion table mm² to AWG on page 20.

Field Attachable M12 Data Connectors - Industrial Ethernet - Female Connectors

Product Description				
Order Designation	0986 EFC 105			
Description	Field attachable connector, M12 female connector, with screw coupling, shieldable, assembly using spring-type terminal, 4-pin, D-coding			
Note	Transmission properties for Cat 5 and Cat 5e as per ISO IEC 11801 or TIA/EIA-568-B.2.			
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	-			
Technical Data				
Ambient Temperature	-25 °C to +90 °C			
Housing Material/Grip	GD-ZnAl, nickel-plated			
Contact Holder Material	PBT			
Contact Material/Surface Finish	Stainless steel, silver-plated and gold-plated			
Screw Coupling Material	CuZn, nickel-plated			
Mechanical Data				
Degree of Protection	IP67 (only when mated to associated counterparts)			
Electrical Data				
Contact Resistance	≤5 mΩ			
Rated Voltage	250 V			
Rated Current	4 A			
Pollution Degree	3			
Technical Drawing				
	Griffstate and Say 101 grip Speed with Speed			

4-pin, D-coding



Order Information

Order No.	Order Designation	No. of Pins	Cable Range	Characteristics
104584	0986 EFC 105	4	Ø 4.0 to 9.0 mm	

Field Attachable M12 Data Connectors - Industrial Ethernet - Male Connectors

Product Description				
Order Designation	0986 EMC 102	0986 EMC 600		
Description	Field attachable Industrial Ethernet connector, M12 male connector, with screw coupling, shielded, assembly using spring-type terminals, 4-pin, D-coding	Field attachable Industrial Ethernet connector, M12 male connector, with screw coupling, shielded, assembly using insulation displacement termination, 8-pin, X-coding		
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	based on IEC 61076-2-101	E DIN EN 61076-2-109		
Approvals	-			
Technical Data				
Ambient Temperature	-25 °C to +90 °C	-25 °C to +85 °C		
Housing Material/Grip	GD-ZnAl, n	ickel-plated		
Contact Holder Material	PBT	PA		
Contact Material/Surface Finish	Stainless steel, silver-plated and gold-plated	CuZn, gold-plated		
Screw Coupling Material	CuZn, nic	skel-plated		
Mechanical Data				
Degree of Protection	IP67 (only when mated to	associated counterparts)		
Electrical Data				
Contact Resistance	≤5 mΩ	≤ 10 mΩ		
Rated Voltage	250 V	50 V AC/60 V DC		
Rated Current	4 A	0.5 A		
Pollution Degree	3	2		
Technical Drawing				
	Griffiative net SW SW grip store with SW 18 SS	Φ 16,8 M 12 x1 Codierung 8 encoding 1 2 3 4 2 3 3 5 4 4 5 5 6 5 6 5 6 5 6 5 6 5 6 5 6 6 5 6 6 5 6		

4-pin, D-coding 8-pin, X-coding 7 6 5 1

Order Information

Order No.	Order Designation	No. of Pins	Cable Range	Characteristics
71327	0986 EMC 102	4	Ø 4.0 to 9.0 mm	((++1)
934637032	0986 EMC 600	8	Ø 4.0 to 9.0 mm	RAIL (H+1)

Field Attachable M12 Data Connectors - Industrial Ethernet with Railway Authorities License

Product Description						
Order Designation	0986 EFC 107	0986 EMC 105				
Description	Field attachable connector, M12 female connector, with screw coupling, shielded, assembly using spring-type terminal, 4-pin, D-coding	Field attachable connector, M12 male connector, with screw coupling, shielded, assembly using spring-type terminal, 4-pin, D-coding				
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101					
Approvals	IEC 61373, DIN EN 50467, DIN EN 45545-2, DIN 5510, based on EN 50	0155				
Technical Data						
Ambient Temperature	-40 °C t	o +90 °C				
Housing Material/Grip	GD-ZnAI, n	iickel-plated				
Contact Holder Material	PBT					
Contact Material/Surface Finish	Stainless steel, silver-	plated and gold-plated				
Screw Coupling Material	CuZn, nickel-plated					
Mechanical Data						
Degree of Protection	IP67 (only when mated to associated counterparts)					
Electrical Data						
Contact Resistance	≤5	mΩ				
Rated Voltage	25	50 V				
Rated Current		A				
Pollution Degree		3				
Technical Drawing						
	Definition on the 10 graph and the 10 gr	Griffedur et 24 to 10 to				

0986 EFC 107 Pin Assignment

4-pin, D-coding



0986 EMC 105 Pin Assignment

4-pin, D-coding



Order Information

Order No.	Order Designation	No. of Pins	Cable Range	Characteristics
109969	0986 EFC 107	4	Ø 6.7 mm	(RAIL (H1)) (1)
109471	0986 EMC 105	4	Ø 6.7 mm	RAIL (HIV))

Field Attachable M12 Data Connectors (PROFIBUS®) - Female Connectors

Product Description						
Order Designation	0976 PFC 101	0976 PFC 102				
Description	Field attachable PROFIBUS connector, M12 female connector, with screw coupling, 5-pin, B-coding, shielded, assembly using screw-type terminals	Field attachable PROFIBUS connector, M12 female connector, with screw coupling, 4-pin, B-coding, shielded, assembly using spring-type terminals				
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101	based on IEC 61076-2-101				
Approvals	_					
Technical Data						
Ambient Temperature	-25 °C t	0 +90 °C				
Housing Material/Grip	GD-ZnAI, n	ickel-plated				
Contact Holder Material	P	ВТ				
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn	Stainless steel, silver-plated and gold-plated				
Screw Coupling Material	CuZn, nic	kel-plated				
Mechanical Data						
Degree of Protection	IP67 (only when mated to associated counterparts)					
Electrical Data						
Contact Resistance	≤5	mΩ				
Rated Voltage		2 V				
Rated Current		Α				
Pollution Degree		3				
Technical Drawing						
	Gerifficial and that spill graph arms that spill graph arms and the spill graph arms with Sair 86 and	Grifflute ent TM 85 (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d				

4-pin, B-coding 5-pin, B-coding 3 0 0 2 1

Order Information

Order No.	Order Designation	No. of Pins	Cable Range	Characteristics
66247	0976 PFC 101	5	Ø 4.0 to 9.0 mm	• • • • • • • • • • • • • • • • • • •
60120	0976 PFC 102	4	Ø 4.0 to 9.0 mm	(mm)

Field Attachable M12 Data Connectors (PROFIBUS®) - Male Connectors

Product Description			
Order Designation	0976 PMC 101	0976 PMC 102	
Description	Field attachable PROFIBUS connector, M12 male connector, with screw coupling, 5-pin, B-coding, shielded, assembly using screw-type terminals	Field attachable PROFIBUS connector, M12 male connector, with screw coupling, 4-pin, B-coding, shielded, assembly using spring-type terminals	
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	-		
Technical Data			
Ambient Temperature	-25 °C t	0 +90 °C	
Housing Material/Grip	GD-ZnAI, r	iickel-plated	
Contact Holder Material	Р	ВТ	
Contact Material/Surface Finish	CuZn, copper underlay, CuSnZn	Stainless steel, silver-plated, gold-plated	
Screw Coupling Material	CuZn, nic	skel-plated	
Mechanical Data			
Degree of Protection	IP67 (only when mated to	o associated counterparts)	
Electrical Data			
Contact Resistance	≤5	mΩ	
Rated Voltage	60 V	32 V	
Rated Current	4	I A	
Pollution Degree		3	
Technical Drawing			
	Griffidise and SW 150 grig slieve with SW 15 grid slieve with SW 15	Griffitulia and Sur Sur Igu grip silenee with Sur Igu grip silenee wit	

4-pin, B-coding 5-pin, B-coding 4 1 2 5-pin, B-coding

Order Information

Order No.	Order Designation	No. of Pins	Cable Range	Characteristics
66248	0976 PMC 101	5	Ø 4.0 to 9.0 mm	(·++)
60121	0976 PMC 102	4	Ø 4.0 to 9.0 mm	(····

M12 Receptacle Connectors for Actuators and Sensors – Standard Female Connectors with Stranded Hook-up Wire

Order Designation	RKFM/0.5 M	RKF/0.5M					
Description	Receptacle connector, M12 female connector, FIXCON-compatible, for front mounting, assembled with stranded hook-up wire, conductor terminal area potted, M16 x 1.5/M20 x 1.5 screw coupling at mounting side	Receptacle connector, M12 female connector, FIXCON-compatible, for front mounting, assembled with stranded hook-up wire, conducto terminal area potted, PG 9 screw coupling at mounting side					
Note	Mounting using RSKFM 16 or RSKFM 20						
RoHS-compliant (2011/65/EU)	Yes						
(Construction Type) Standard	IEC 61076-2-101						
Approvals	UL						
Technical Data							
Ambient Temperature	-25 °C to +80 °C, mind cable temperature range						
Housing Material/Grip	CuZn, nickel-plated						
Contact Holder Material		PU					
Contact Material/Surface Finish	CuSn, nickel underlay and gold-plated (3, 4, and 5	CuSn, nickel underlay and gold-plated (3, 4, and 5-pin), CuZn, nickel underlay and gold-plated (8-pin)					
Mechanical Data							
Degree of Protection	IP67 (only when mated to	o associated counterparts)					
Electrical Data							
Contact Resistance	≤5	mΩ					
Rated Voltage	3 to 4-pin 250 V, 5-pin 60 V, 8 to 12-pin 30 V	3 to 4-pin 250 V, 5-pin 60 V, 8-pin 30 V					
Rated Current	3 to 5-pin 4 A, 8-pin 2 A, 12-pin 1.5 A	3 and 5-pin 4 A, 8-pin 2 A					
Pollution Degree		3					
Technical Drawing							
	\$\frac{\fin}}}}}}{\frac}\frac{	90 80 Sw 17					

 $^{{}^{\}star}a = 0 \text{-ring} \bullet {}^{\star}b = 0 \text{-ring supplied loose} \bullet {}^{\star}c = \text{Conductor terminal area potted} \bullet L = \text{Standard length of cable}$

3-pin	4-pin	5-pin	8-pin
1 = brown 2 = n.c. 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = green/yellow	1 = white 5 = gray 2 = brown 6 = pink 3 = green 7 = blue 4 = yellow 8 = red

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
26130	RKFM 4-3/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🍗 느
26129	RKFM 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🍗 느
87470	RKFMN 4/0.5 M	4	stranded hook-up wire	0.34 mm², stainless steel design	UL 🍗 느
26132	RKFM 5/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🍗 느
64874	RKFM 5B/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🍗 느
26134	RKFM 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🍗 느
86153	RKFM 12/0.5 M	12	stranded hook-up wire	0.34 mm ²	UL 🍗 📥
50575	RKFM 4/20/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🍗 📥
50617	RKFM 5/20/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🍗 📥
50616	RKFM 8/20/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🍗 📥
11266	RKF 4-3/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🍗 📥
11267	RKF 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🍗 📥
11270	RKF 5/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🍗 📥
52180	RKF 5B/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🍗 📥
11273	RKF 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🍗 📥

M12 Receptacle Connectors for Actuators and Sensors – Standard Female Connectors with Stranded Hook-up Wire

Product Description	DVFDM/O F M	DVED/O E M				
Order Designation	RKFPM/0.5 M	RKFP/0.5 M				
Description	Receptacle connector, M12 female connector, FIXCON-compatible, for front mounting, adjustable, assembled with stranded hook-up wire, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side	Receptacle connector, M12 female connector, FIXCON-compatible, for front mounting, assembled with stranded hook-up wire, conductor terminal area potted, PG 9 screw coupling at mounting side				
Note	Mated with mounting nut RSKFM 16	Mated with mounting nut RSKF 9				
RoHS-compliant (2011/65/EU)	Yes					
(Construction Type) Standard	IEC 61076-2-101					
Approvals	UL					
Technical Data						
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range				
Housing Material/Grip	CuZn, nickel-plated					
Contact Holder Material	PA					
Contact Material/Surface Finish	CuZn, gold over nickel plating					
Mechanical Data						
Degree of Protection	IP67 (only when mated to	o associated counterparts)				
Electrical Data						
Contact Resistance	-	5 mΩ				
Rated Voltage	3 to 4-pin 250 V, 5	3 to 4-pin 250 V, 5-pin 60 V, 8-pin 30 V				
Rated Current	3 and 5-pin	3 and 5-pin 4 A, 8-pin 2 A				
Pollution Degree		3				
Technical Drawing						
	*b SW 18	\$\frac{\mathbf{M}_{12}\mathbf{M}}{\mathbf{M}_{12}\m				

*a = 0-ring $\bullet *b = 0$ -ring/adjusting nut supplied loose $\bullet *c = C$ onductor terminal area potted $\bullet L = S$ tandard length of cable

RKFPM Pin Assignment

3-pin	4-pin	5-pin	8-pin
1 = brown 2 = n.c. 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = green/yellow	1 = white 5 = gray 2 = brown 6 = pink 3 = green 7 = blue 4 = yellow 8 = red

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
26136	RKFPM 4-3/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🏲 느
26137	RKFPM 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🏲 느
26139	RKFPM 5/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🎦 드
26141	RKFPM 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🏲 느
11274	RKFP 4-3/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🏲 느
11275	RKFP 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🏲 🖦
11276	RKFP 5/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🍗 🖦
17218	RKFP 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🏲 📥

M12 Receptacle Connectors for Actuators and Sensors – Female Connectors with Stranded Hook-up Wire/Printed Circuit Board Pins

Product Description			
Order Designation	RKH/0.5 M	EF 12H	EF 12L
		E_0	
Description	Receptacle connector, M12 female connector, FIXCON-compatible, for rear panel mounting, assembled with stranded hook-up wire, conductor terminal area potted, PG 9 screw coupling at mounting side, with mounting nut AF 18	Receptacle connector, M12 female connector, FIXCON-compatible, for rear panel mounting, assembled with stranded hook-up wire, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side	Receptacle connector, M12 female connector for front and printed circuit board mounting, solder pin straight or angled
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	UL	-	UL
Technical Data			
Ambient Temperature	-25 °C to +80 °C, mind cable temperature range	-25 °C to +90 °C mind	cable temperature range
Housing Material/Grip	25 C to 100 G, mind capie temperature range	CuZn, nickel-plated	ouble temperature range
Contact Holder Material	TPU		 PA
Contact Material/Surface Finish	CuSn, nickel underlay and gold-plated (4 and 5-pin, A-coding), CuZn, nickel underlay and gold-plated (5-pin, B-coding and 8-pin, A-coding)		old-plated
Mechanical Data			
Degree of Protection	IP67, IP69K (only when mated to associated counterparts)	IP67 (only when mated to	associated counterparts)
Electrical Data			
Contact Resistance		≤ 10 mΩ	
Rated Voltage	3 to 4-pin 250 V, 5-	pin 60 V, 8-pin 30 V	4-pin 150 V, 5-pin 60 V
Rated Current		3 and 4-pin 4 A, 8-pin 2 A	
Pollution Degree		3	
Technical Drawing			
	9 20 90 513 90 705 90 7	FSI-COI snap lacking FSI-COI snap lacking	Component space on the circuit board Trent planel Circuit Drilling pattern To 20.1 Front planel To 20.1 To 20.1

*a = 0-ring • *b = 0-ring supplied loose • *c = Nut (AF 18) supplied loose • d = Anti-twist protection • L = Standard length of stranded hook-up wire

3-pin	4-pin	5-pin	8-pin
1 = brown 2 = n.c. 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = green/yellow	5

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
61486	RKH 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🏲 🖦
49228	RKH 5/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🏲 🖦
62596	RKH 5B/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🏲 🛌
68807	RKH 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🍗 느
934537001	EF12H4AFIX AU	4	stranded hook-up wire	0.34 mm ²	
934537201	EF12H5AFIX AU	5	stranded hook-up wire	0.34 mm ²	
933279200	EF12L4	4	PCB solder pin	-	UL 🍗 느
933551200	EF12L5A AU	5	PCB solder pin	-	UL 🍗 느
933395200	EF12LW4	4	PCB solder pin	-	UL 🍗 느
933821200	EF12LW5A AU	5	PCB solder pin	-	UL 🏲 🛌

M12 Receptacle Connectors for Actuators and Sensors -Female Connectors with Printed Circuit Board Pins

Technical Information

Product Description			
Order Designation	EF 12HL	RKHL	RKHLS
oraci successioni			
Description	Receptacle connector, M12 female connector for rear panel mounting, PCB contacts, M16 x 1.5 screw coupling at mounting side	Receptacle connector, M12 female connector for rear panel mounting, PCB contacts, PG 9 screw coupling at mounting side	Receptacle connector, M12 female connector for rear panel mounting, with shield sheet, PCB contacts, PG 9 screw coupling at mounting side
Note	-	Mounting using RSKF 9	Mounting using RSKF 9
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	-	UL	-
Technical Data			
Ambient Temperature	-25 °C to +90 °C	-25 °C to +80 °C	4 and 5-pin -30 °C to +80 °C, 8 and 12-pin -25 °C to +80 °C
Housing Material/Grip		CuZn, nickel-plated	
Contact Holder Material	PA	Т	PU
Contact Material/Surface Finish	CuZn, gold-plated	CuZn, nickel under	rlay and gold-plated
Screw Coupling Material		CuZn, nickel-plated	
Mechanical Data			
Degree of Protection	IP67, IP68 (24 h, 1 m; only when mated to associated counterparts)	IP67 (only when mated to	o associated counterparts)
Electrical Data			
Contact Resistance	≤ 10 mΩ		ίπΩ
Rated Voltage		4-pin 250 V, 5-pin 60 V, 8 to 12-pin 30 V	
Rated Current		4 to 5-pin 4 A, 8-pin 2 A, 12-pin 1.5 A	
Pollution Degree Technical Drawing		3	
	FOX-CON snop tecking 19	# d	920 Pg9 913.5 M12x1 92.5 915.5 921.5 921.5 921.5 921.5 921.5 921.5 921.5 921.5 921.5 921.5

RKHL: $*a = \text{Nut} \bullet *b = 0$ -ring $\bullet *c = 0$ -ring $\bullet *d = \text{Conductor terminal area potted} \bullet *e = \text{Anti-twist protection} \bullet *f = \text{Installation hole for anti-twist protection} \bullet *f = \text{Installation hole for$

*g = Drill pattern in printed circuit board RKHLS: *a = Nut • *b = 0-ring • *c = 0-ring • *d = Conductor terminal area potted • *e = Terminal lug/solder terminal • *f = Anti-twist protection • *g = Installation hole for anti-twist protection • *h = Drill pattern in printed circuit board

4-pin	5-pin	5-pin, B-coding	8-pin	12-pin	
3 0 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 5 1	3 0 0 0 7 2 8 1	5 6 7 4 11 0 0 0 0 12 8 3 0 0 0 9 2 10 1	

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Characteristics
934537002	EF12HL4AFIX AU	4	PCB solder pin	
934537202	EF12HL5AFIX AU	5	PCB solder pin	
56334	RKHL 4/S 5.5	4	PCB solder pin	UL 🍗 느
56335	RKHL 5/S 5.5	5	PCB solder pin	UL 🍗 느
56347	RKHL 5B/S 5.5	5	PCB solder pin	UL 🍗 느
62075	RKHL 8/S 5.5	8	PCB solder pin	UL 🍗 느
104079	RKHL 12/S 5.5	12	PCB solder pin	UL 🍗 느
104091	RKHLS 4/S 5.5	4	PCB solder pin	
104092	RKHLS 5/S 5.5	5	PCB solder pin	
104093	RKHLS 8/S 5.5	8	PCB solder pin	
102735	RKHLS 12/S 5.5	12	PCB solder pin	(++1) (

M12 Receptacle Connectors for Actuators and Sensors – Female Connectors with Stranded Hook-up Wire for Food & Beverage

Order Designation	PRKFM			
Description	Receptacle connector, M12 female connector, for front mounting, stainless steel housing, assembled with stranded hook-up wire, conducto terminal area potted, M16 x 1.5 screw coupling at mounting side			
Note	Mounting using RSKFM 16. Especially suitable for use in the food processing equipment.			
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL			
Technical Data				
Ambient Temperature	-25 °C to +70 °C, mind cable temperature range			
Housing Material/Grip	Stainless steel			
Contact Holder Material	PBT			
Contact Material/Surface Finish	CuSn, nickel underlay and gold-plated (4 and 5-pin), CuZn, nickel underlay and gold-plated (8-pin)			
Mechanical Data				
Degree of Protection	IP67, IP69K (only when mated to associated counterparts)			
Electrical Data				
Contact Resistance	≤5 mΩ			
Rated Voltage	4-pin 250 V, 5-pin 60 V, 8-pin 30 V			
Rated Current	4 to 5-pin 4 A, 8-pin 2 A			
Pollution Degree	3			
Technical Drawing				
	1. M12x1 1. SW17			

^{*}a = 0-ring $\bullet *b = 0$ -ring supplied loose $\bullet *c = 0$ Conductor terminal area potted $\bullet L = 0$ Standard length of stranded hook-up wire

4-pin	5-pin	8-pin	
1 = brown 2 = white 3 = blue 4 = black	3 = blue 4 = black 5 = green/yellov	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	5 = gray 6 = pink 7 = blue 8 = red

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
45740	PRKFM 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🗎 🖦
45741	PRKFM 5/0.5 M	5	stranded hook-up wire	1 x 0.50/4 x 0.34 mm ²	UL 📄 🖦
49798	PRKFM 8/0.5 M	8	stranded hook-up wire	0.22 mm ²	UL 📄 🖦

M12 Receptacle Connectors for Actuators and Sensors -Standard Male Connectors with Printed Circuit Board Pins

Order Designation	RSFM	RSF		
Description	Receptacle connector, M12 male connectors, FIXCON-compatible, for front mounting, solder terminals, M16 x 1.5 screw coupling at mounting side RSF 3/12 and RSF 4/12: M12 screw coupling at mounting side	Receptacle connector, M12 male connectors, FIXCON-compatible, for front mounting, solder terminals, PG 9 screw coupling at mounting side		
Note	Mounting using RSKFM 16	-		
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL			
Technical Data				
Ambient Temperature	-25 °C to +80 °C	-25 °C to +90 °C		
Housing Material/Grip	CuZn, nic	ckel-plated		
Contact Holder Material	1	PA		
Contact Material/Surface Finish	CuZn, nickel unde	rlay and gold-plated		
Mechanical Data				
Degree of Protection	IP67 (only when mated to	o associated counterparts)		
Electrical Data				
Contact Resistance	≤5	imΩ		
Rated Voltage	3 to 4-pin 250 V, 5-pin 60 V			
Rated Current	4 A			
Pollution Degree	3			
Technical Drawing				
	M12X1	M12x1 Ø1 Ø1 SW 17		

^{*}a = 0-ring supplied loose
*b = Important note: To ensure the mechanical stability and leak-tightness, the conductor terminal area must be potted after the cable is assembled.

3-pin	4-pin	5-pin
4 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3	
		Contact 5 leading

Order Information

Order No.	Order Designation	No. of Pins	Characteristics
26478	RSFM 3	3	UL 🍗 🖦
25023	RSFM 4	4	UL 🍗 🥌
26477	RSFM 5	5	UL 🍗 🖦
11619	RSF 3	3	UL 🍗 🖦
11627	RSF 4	4	UL 🍗 🖦
11632	RSF 5	5	UL 🍗 🖦
14252	RSF 3/12	3	UL 🍗 🖦
14249	RSF 4/12	4	UL 🍗 🥌

M12 Receptacle Connectors for Actuators and Sensors – Standard Male Connectors with Stranded Hook-up Wire

Product Description				
Order Designation	RSFM/0.5 M	RSF/0.5M		
Description	Receptacle connector, M12 male connector, FIXCON-compatible, for front mounting, assembled with stranded hook-up wire, conductor terminal area potted, M16 x 1.5 or M20 x 1.5 screw coupling at mounting side	Receptacle connector, M12 male connector, FIXCON-compatible, for front mounting, assembled with stranded hook-up wire, conductor terminal area potted, PG 9 screw coupling at mounting side		
Note	Mounting using RSKFM 16 or RSKFM 20	Mounting using RSKF 9		
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL			
Technical Data				
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range		
Housing Material/Grip	CuZn, nic	ckel-plated		
Contact Holder Material	PA, TPU (8	and 12-pin)		
Contact Material/Surface Finish	CuZn, nickel unde	rlay and gold-plated		
Screw Coupling Material	CuZn, nic	ckel-plated		
Technical Data				
Degree of Protection	IP67 (only when mated to	o associated counterparts)		
Electrical Data				
Contact Resistance	≤5 mΩ			
Rated Voltage	3 to 4-pin 250 V, 5-pin 60 V	(UL 30 V AC/DC), 8-pin 30 V		
Rated Current	3 to 5-pin 4 A, 8-p	oin 2 A, 12-pin 1.5 A		
Pollution Degree	3			
Technical Drawing				
	M12x1 e1 Sw17 who has a second sec	M12×1 ON Pg 9 Pg 9		
	M12x1 e1 e1 b SW23			

 $^{^{\}star}a = 0 \text{-ring supplied loose} \bullet ^{\star}b = Conductor \, terminal \, area \, potted \, \bullet \, L = Standard \, length \, of \, cable \, also that the conductor is the conductor of the conductor is the conductor of the conductor of the conductor is the conductor of the co$

3-pin 4-pin 5-pin, B-coding 5-pin 1 = brown 1 = brown 1 = brown 1 = brown 3 = blue 4 = black2 = white 3 = blue 4 = black 2 = white2 = white3 = blue4 = black3 = blue4 = black 5 = green/yellow 5 = green/yellow

Contact 5 leading

8-pin 12-pin 7 6 1 = white5 = gray 1 = brown 5 = pink9 = red8 12 11 4 9 10 2 5 2 = blue 3 = white 2 = brown 3 = green 6 = pink 7 = blue 10 = violet 11 = gray/pink 12 = red/blue 6 = yellow 7 = black 4 = yellow8 =shield 4 = green8 = gray

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
26142	RSFM 3/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🍗 🖦
26144	RSFM 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🍗 🧫
26146	RSFM 5/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🏲 📥
96551	RSFM 5B/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL 🏲 📥
26151	RSFM 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🏲
86154	RSFM 12/0.5 M	12	stranded hook-up wire	0.25 mm ²	UL 🏲 🖦
26143	RSFM 3/20/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🏲 🖦
26145	RSFM 4/20/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL P
26148	RSFM 5/20/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL P
26152	RSFM 8/20/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL P
107475	RSFM 12/20/0.5 M	12	stranded hook-up wire	0.14 mm ²	UL P
11621	RSF 3/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL P
11629	RSF 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL P
11634	RSF 5/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	UL P
14320	RSF 5B/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	
11638	RSF 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL P

Conversion table $\,mm^2$ to AWG on page 20.

M12 Receptacle Connectors for Actuators and Sensors – Male Connectors with Stranded Hook-up Wire

traduct Decemention			
roduct Description	DCE 12 E/O E M	DCE 1/2 14/0 F M DCFF	DCE 4/12/0 5 M
rder Designation	RSF 13.5/0.5 M	RSF 1/2-14/0.5 M RSFF	RSF 4/12/0.5 M
escription	Receptacle connector, M12 male connector, for front mounting, assembled with stranded hook-up wire, conductor terminal area potted, PG 13.5 screw coupling at mounting side	Receptacle connector, M12 male connector, for front mounting, assembled with stranded hook-up wire, 1/2" 14NPT screw coupling at mounting side RSFF: with removable pre-assembled plug insert and square flange	Receptacle connector, M12 male connector, for front mounting, assembled with strande hook-up wire, M12 screw coupling at mounting side
oHS-compliant (2011/65/EU)	Yes		
Construction Type) Standard	IEC 61076-2-101		
pprovals	_	UL	_
echnical Data			
mbient Temperature	-25 °C to +8	0 °C (RSFF: -25 °C to +90 °C), mind cable temp	perature range
ousing Material/Grip		CuZn, nickel-plated	
ontact Holder Material		PA	
ontact Material/Surface Finish		CuZn, gold-plated	
lechanical Data		ouzii, goid pidted	
egree of Protection		P67 (only when mated to associated counterpar	
lectrical Data	"	Tor torny when mateu to associated couliterpar	
ontact Resistance		≤5 mΩ	
ated Voltage		3 to 4-pin 250 V, 5-pin 60 V	
ated Current			
		4 A	
ollution Degree echnical Drawing		3	
	Pg 13.5	SET 1027-1037-1037-1037-1037-1037-1037-1037-103	Technology (in the property of the past of exclused appropriate guidant exclused appropriate guidant confincts guidant g

^{*}a = 0-ring supplied loose $\bullet *b = Position$ of coding for external surface of housing symmetrical and adjustable by 45° angle $\bullet *c = Installation$ hole

3-pin 4-pin 5-pin

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

4-pin 5-pin 2 = brown 2 = white 4 = black 5 = green/yellow

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
11620	RSF 3-13.5/0.5 M	3	stranded hook-up wire	0.34 mm ²	
11628	RSF 4-13.5/0.5 M	4	stranded hook-up wire	0.34 mm ²	
11633	RSF 5-13.5/0.5 M	5	stranded hook-up wire	4 x 0.34/1 x 0.50 mm ²	
2582	RSF 3-1/2-14/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🏲 📥
2261	RSF 4-1/2-14/1 F	4	stranded hook-up wire	0.34 mm ²	UL 🏲 📥
30420	RSF 4/12/0.5 M	4	stranded hook-up wire	0.34 mm ²	
934637371	RSFF 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	

M12 Receptacle Connectors for Actuators and Sensors – Male Connectors with Stranded Hook-up Wire

Product Description		
Order Designation	RSFPM/0.5M	RSFP/0.5 M
Description	Receptacle connector, M12 male connector, FIXCON-compatible, for front mounting, adjustable, assembled with stranded hook-up wire, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side	Receptacle connector, M12 male connector, for front mounting, adjustable, assembled with stranded hook-up wire, conductor terminal area potted, PG 9 screw coupling at mounting side, B-coding
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	
Technical Data		
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range
Housing Material/Grip	CuZn, nic	kel-plated
Contact Holder Material	PA, TPU (RS	SFP 8/0.5M)
Contact Material/Surface Finish	CuZn, nickel under	rlay and gold-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated to	associated counterparts)
Electrical Data		
Contact Resistance	≤5	mΩ
Rated Voltage	3 to 4-pin 250 V, 5-	-pin 60 V, 8-pin 30 V
Rated Current	3 and 5-pin	4 A, 8-pin 2 A
Pollution Degree		3
Technical Drawing		
	M12x1 Ø1 SW 17 M16x1.5 M16x1.5	N 12 x1

 $^{^{\}star}a = \text{Adjusting nut and 0-ring supplied loose} \bullet ^{\star}b = \text{Conductor terminal area potted} \bullet L = \text{Standard length of cable}$

3-pin 4-pin 5-pin 4 3 1 = brown **4 3 1** = brown

3

1 = brown 3 = blue 4 = black 1 2

1 = brown 2 = white 3 = blue 4 = black 3

2 = white 3 = blue 4 = black 5 = green/yellow

Contact 5 leading

5-pin, B-coding

4 3

1 = brown 2 = green 3 = blue 4 = red 5 = green/yellow

8-pin

1 = white 2 = brown 3 = green 4 = yellow

5 = gray 6 = pink 7 = blue 8 = red

Contact 5 leading

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
26153	RSFPM 3/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🍗 🖦
30616	RSFPM 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🍗 🖦
26155	RSFPM 5/0.5 M	5	stranded hook-up wire	1 x 0.50/4 x 0.34 mm ²	UL 🍗 🖦
26157	RSFPM 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🍗 🖦
11639	RSFP 3/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🍗 🖦
11640	RSFP 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🍗 🖦
11641	RSFP 5/0.5 M	5	stranded hook-up wire	1 x 0.50/4 x 0.34 mm ²	UL 🍗 🖦
14321	RSFP 5B/0.5 M	5	stranded hook-up wire	1 x 0.50/4 x 0.34 mm ²	UL 🍗 🖦
17219	RSFP 8/0.5 M	8	stranded hook-up wire	0.25 mm ²	UL 🍗 🧫

M12 Receptacle Connectors for Actuators and Sensors – Male Connectors with Stranded Hook-up Wire

Product Description		
Order Designation	EM12H	RSH/0.5M
Description	Receptacle connector, M12 male connector, FIXCON-compatible, for rear panel mounting, assembled with stranded hook-up wire, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side	Receptacle connector, M12 male connector, for rear panel mounting, assembled with stranded hook-up wire, PG 9 screw coupling at mounting side
Note	Mounting nut M16 x 1.5	Mounting nut RSKF 9
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	UL (3, 4, 5, and 8-pin only)
Technical Data		
Ambient Temperature	-25 °C to +90 °C, mind cable temperature range	-25 °C to +80 °C, mind cable temperature range
Housing Material/Grip	CuZn, nic	kel-plated
Contact Holder Material	PA 6 GF	PA
Contact Material/Surface Finish	CuZn, go	old-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated to	associated counterparts)
Electrical Data		
Contact Resistance	≤10) mΩ
Rated Voltage	3 to 4-pin 250 V, 5-pin	60 V, 8 and 12-pin 30 V
Rated Current	3 to 5-pin 4 A, 8-p	in 2 A, 12-pin 1.5 A
Pollution Degree		3
Technical Drawing		
	FIX-COIN snap locking A-Coding A-Coding SW 17 SW 18 M 12 x 1	Discharactivity for verdretschutz / Proved cut-out for onti-relation

^{*}a = Nut supplied loose (AF 18) • *b = 0-ring • *c = Anti-twist protection • L = Standard length of cable

3-pin 4-pin 5-pin

1 = brown 2 = n.c. 2 = white 3 = blue 4 = black 1 = brown 2 = white 3 = blue 4 = black 5 = green/yellow

8-pin			12-pin			
7 6 3	1 = white 2 = brown 3 = green 4 = yellow	5 = gray 6 = pink 7 = blue 8 = red	7 6 5 8 12 11 4 9 1 10 2	1 = brown 2 = blue 3 = white 4 = green	5 = pink 6 = yellow 7 = black 8 = gray	9 = red 10 = violet 11 = gray/pink 12 = red/blue

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
934536001	EM12H4AFIX AU	4	stranded hook-up wire	0.34 mm ²	
934536201	EM12H5AFIX AU	5	stranded hook-up wire	0.34 mm ²	
2496	RSH 3/0.5 M	3	stranded hook-up wire	0.34 mm ²	UL 🍗 느
61488	RSH 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	UL 🍗 느
73852	RSH 5/0.5 M	5	stranded hook-up wire	0.34 mm ²	UL 🍗 느
90245	RSH 8/0.5 M	8	stranded hook-up wire	1 x 0.50/4 x 0.34 mm ² /0.25 mm ²	UL 🍗 느
3720	RSH 12/0.5 M	12	stranded hook-up wire	0.14 mm ²	

M12 Receptacle Connectors for Actuators and Sensors -Male Connectors with Printed Circuit Board Pins

Product Description			
Order Designation	EM12HL	RSHL	RSHLS
oraci zooguano.			
Description	Receptacle Connectors, M12 male connector for rear panel mounting, PCB contacts, M16 x 1.5 screw coupling at mounting side, with 0-ring	Receptacle Connectors, M12 male connector for rear panel mounting, PCB contacts, PG 9 screw coupling at mounting side, with 0-ring	Receptacle Connectors, M12 male connector for rear panel mounting, with shield sheet, PCB contacts, PG 9 screw coupling at mounting side, with 0-ring
Note	Mounting nut M16 x 1.5	Mounting using RSKF 9	Mounting using RSKF 9
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	-	UL	-
Technical Data			
Ambient Temperature	-25 °C to +90 °C	-25 °C t	0 °08+ 0
Housing Material/Grip		CuZn, nickel-plated	
Contact Holder Material		PA, 12-pin: TPU	
Contact Material/Surface Finish		CuZn, gold-plated	
Mechanical Data			
Degree of Protection	ll ll	P67 (only when mated to associated counterpar	ts)
Electrical Data			
Contact Resistance		≤ 10 mΩ	
Rated Voltage	4-pin 250 V	, 5-pin 60 V, 8 to 12-pin 30 V (with encapsulated	installation)
Rated Current		4 to 5-pin 4 A, 8-pin 2 A, 12-pin 1.5 A	
Pollution Degree		3	
Technical Drawing			
	SW 17	** ** ** ** ** ** ** ** ** ** ** ** **	920 Pg9 H12x1 90.8 90.8 95.5 921.5

^{*}a = Nut • *b = 0-ring • *c = Conductor terminal area potted • *d = Anti-twist protection *e = Installation hole for anti-twist protection • *f = Drill pattern in printed circuit board • *v = Middle contact leading

4-pin	5-pin	5-pin, B-coding	
1 2	4 3 3 1 5 2	4 • • • 2 1 • 5 2	



Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Characteristics
934536002	EM12HL4AFIX AU	4	PCB solder pin	
934536202	EM12HL5AFIX AU	5	PCB solder pin	
56332	RSHL 4/S 5.5	4	PCB solder pin	UL 🍗 🧫
56333	RSHL 5/S 5.5	5	PCB solder pin	UL 🍗 🧫
56346	RSHL 5B/S 5.5	5	PCB solder pin	UL 🍗 느
62136	RSHL 8/S 5.5	8	PCB solder pin	UL 🍗 🧫
107209	RSHL 12/S 5.5	12	PCB solder pin	UL 🍗 🧫
104094	RSHLS 4/S 5.5	4	PCB solder pin	(H+1)) (
104095	RSHLS 5/S 5.5	5	PCB solder pin	(H+1)) (
104097	RSHLS 8/S 5.5	8	PCB solder pin	(H+1)) (
104098	RSHLS 12/S 5.5	12	PCB solder pin	(H+1)) (

M12 Receptacle Connectors for Actuators and Sensors - Male Connectors for Sensors

RSE I RSEO	ELST 400 RD/12
Receptacle connector, M12 male connector for sensors, press-in tube mounting, with short terminal contacts, without anti-twist protection, A-coding, with/without ventilation hole, with 0-ring RSE L: with ventilation hole Ø 2.0 mm RSE0: for M12 initiators, pin 5 not leading RSE 8/0.5 M: with stranded hook-up wire	Receptacle connector, M12 male connector for sensors, press-in tube mounting, without anti-twist protection, A-coding, with 0-ring, with lockable ventilation hole ELST 400 V: with anti-twist protection
Yes	
IEC 61076-2-101	
UL	
-25 °C to +85 °C	-25 °C to +90 °C
	_
F	PA
CuZn, gold-plated	CuZn/Sn or CuZn/Au
IP67 (only when mated to	associated counterparts)
≤1() mΩ
3 to 4-pin 250 V, 5-pin 60 V, 8-pin	30 V (with encapsulated installation)
·	pin 2 A
	3
* \$\phi 0.05 \\ \text{\$\sigma 9.55} \\ \text{\$\sigma 1.1} \\ \text{\$\sigma 9.4} \\ \text{\$\sigma 9.55 0.05} \\ \text{\$\sigma 9.9} \\ \$\s	Sensor tube
	mounting, with short terminal contacts, without anti-twist protection, A-coding, with/without ventilation hole, with 0-ring RSE L: with ventilation hole Ø 2.0 mm RSE0: for M12 initiators, pin 5 not leading RSE 8/0.5 M: with stranded hook-up wire Yes IEC 61076-2-101 UL -25 °C to +85 °C CuZn, gold-plated IP67 (only when mated to 3 to 4-pin 250 V, 5-pin 60 V, 8-pin 4 A, 8-

^{*}a = 0-ring supplied loose $\bullet *b = Ventilation hole <math>\bullet *c = Installation hole with 0$ -ring $\bullet *d = Installation hole without 0$ -ring

3-pin, A-coding

4-pin, A-coding

5-pin, A-coding

8-pin, A-coding

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
14509	RSE 3	3	solder terminal	solid max. 0.75 mm², stranded conductor max. 0.50 mm²	UL 🍗 🖦
11609	RSE 4	4	solder terminal	solid max. 0.75 mm², stranded conductor max. 0.50 mm²	UL 🍗 🖦
11610	RSE 4 L	4	solder terminal	solid max. 0.75 mm², stranded conductor max. 0.50 mm²	UL 🍗 🖦
26962	RSE 4 L Transparent	4	solder terminal	solid max. 0.75 mm², stranded conductor max. 0.50 mm²	UL 🍗 🖦
11613	RSE 5	5	solder terminal	solid max. 0.75 mm², stranded conductor max. 0.50 mm²	UL 🍗 🖦
46871	RSE0 5	5	solder terminal	solid max. 0.75 mm², stranded conductor max. 0.50 mm²	UL 🍗 🖦
11614	RSE 5 L	5	solder terminal	solid max. 0.75 mm², stranded conductor max. 0.50 mm²	UL 🍗 🖦
14210	RSE 8/0.5 M	8	stranded hook-up wire	solid max. 0.75 mm², stranded conductor max. 0.50 mm²	
932559306	ELST 400 RD/12 093 AU	4	solder terminal	max. 0.50 mm ²	UL 🍗 🖦
932559406	ELST 400 RD/12 093 SN	4	solder terminal	max. 0.50 mm ²	UL 🍗 🧫
933442306	ELST 400 RD/12 V AU	4	solder terminal	max. 0.50 mm ²	UL 🍗 🥌
933442406	ELST 400 RD/12 V SN	4	solder terminal	max. 0.50 mm ²	UL 🍗 📥

M12 Receptacle Connectors for Actuators and Sensors - Male Connectors for Sensors

Product Description		
Order Designation	ELST 400(L)/12	ELST 412
Description	Receptacle connector, M12 male connector for sensors, press-in tube mounting, A-coding, with sealing ribs, with and without ventilation hole ELST 400L: with ventilation hole	Receptacle connector, M12 male connector for sensors (with threading), press-in tube mounting, A-coding, with 0-ring
RoHS-compliant (2011/65/EU)	Yes	J.
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	
Technical Data		
Ambient Temperature	-25 °C t	0 +90 °C
Housing Material/Grip		-
Contact Holder Material	P	PA
Contact Material/Surface Finish	CuZ	n/Au
Mechanical Data		
Degree of Protection	IP67 (only when mated to associated counterparts)	IP68 (24 h, 1 m; only when mated to associated counterparts)
Electrical Data		
Contact Resistance	≤10) mΩ
Rated Voltage	25	0 V
Rated Current	4	A
Pollution Degree		3
Technical Drawing		
	Sensor tube	17 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
	with sealable ventilation hole	2

 $^{^*}a = 0$ -ring supplied loose ullet $^*b = V$ entilation hole ullet $^*c = I$ nstallation hole with 0-ring ullet $^*d = I$ nstallation hole without 0-ring

4-pin, A-coding

5-pin, A-coding





Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
932440106	ELST 400/12 093 AU	4	solder terminal	max. 0.50 mm ²	UL 🏲 🖦
932440206	ELST 400/12 093 SN	4	solder terminal	max. 0.50 mm ²	UL 🏲 🖦
934267106	ELST 500/12 093 AU	5	solder terminal	max. 0.50 mm ²	UL 🏲 🖦
934267206	ELST 500/12 093 SN	5	solder terminal	max. 0.50 mm ²	UL 🏲 🖦
932416106	ELST 400L/12 093 AU	4	solder terminal	max. 0.50 mm ²	UL 🏲 📥
932416206	ELST 400L/12 093 SN	4	solder terminal	max. 0.50 mm ²	UL 🏲 느
931902106	ELST 412 AU GRAU (gray)	4	solder terminal	max. 0.50 mm ²	UL 🏲 🛌
931902206	ELST 412 SN GRAU (gray)	4	solder terminal	max. 0.50 mm ²	UL 🏲 🖦

M12 Receptacle Connectors for Actuators and Sensors - Male Connectors for Sensors

Product Description				
Order Designation	ELST 412 LED	RSEL	RSELP	
Description	Receptacle connector, M12 male connector for sensors (with threading), PCB contacts, press-in tube mounting, fitted with LED (red), 0-ring ELSTYE: yellow LED	Receptacle connector, M12 male connector for sensors, press-in tube mounting, with long terminal contacts, for printed circuit board mounting, without anti-twist protection, A-coding, without ventilation hole	Receptacle connector, M12 male connector for sensors, press-in tube mounting, with long terminal contacts, for printed circuit board mounting, with anti-twist protection (octagonal shape), A-coding, without ventilation hole	
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL		_	
Technical Data				
Ambient Temperature	-25 °C to +90 °C	-25 °C to	2° 08+ c	
Housing Material/Grip				
Contact Holder Material		PA		
Contact Material/Surface Finish	CuZn/Sn or Au	CuZn, nickel under	lay and gold-plated	
Mechanical Data				
Degree of Protection	IP68 (o	nly when locked and mated to associated count	erparts)	
Electrical Data				
Contact Resistance		≤ 10 mΩ		
Rated Voltage	50 V	4-pin 250 V, 5-pin 60 V, 8-pin 30 V (with encapsulated installation)		
Rated Current	4 A (LED max. 10 mA)	4 to 5-pin 4 A, 8-pin 2 A		
Pollution Degree		3		
Technical Drawing				
	Sensor tube	#b #c	99.55/10.05* 910.4 910.4 99.4 / 9.5* 99.55/10.05 s.0.05 99.55/10.05 s.0.05	

 $[*]a = 0 - \text{ring supplied loose} \bullet *b = \text{Installation hole with } 0 - \text{ring} \bullet *c = \text{Installation hole without } 0 - \text{ring} \bullet *d = \text{Drill pattern in printed circuit board } 1 - \text{Installation hole without } 0 - \text{ring } \bullet *d = \text{Drill pattern in printed circuit board } 1 - \text{Installation hole without } 0 - \text{ring } \bullet *d = \text{Drill pattern in printed circuit board } 1 - \text{Installation hole without } 0 - \text{ring } \bullet *d = \text{Drill pattern in printed circuit board } 1 - \text{Installation hole without } 0 - \text{ring } \bullet *d = \text{Drill pattern in printed circuit board } 1 - \text{Installation hole without } 0 - \text{Installati$

4-pin 5-pin 8-pin

4-pin 5-pin 7-pin 8-pin

Contact 5 leading

Bestellinformation

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
932256112	ELST 412 LED AU	4	solder terminal	max. 0.50 mm ²	UL 🍗 🥌
932256212	ELST 412 LED SN	4	solder terminal	max. 0.50 mm ²	UL 🍗 🥌
933363112	ELST 412 LED YE AU	4	solder terminal	max. 0.50 mm ²	UL 🍗 🥌
933363212	ELST 412 LED YE SN	4	solder terminal	max. 0.50 mm ²	UL 🍗 느
30548	RSEL 4	4	solder terminal	max. 0.50 mm ²	UL 🍗 느
30549	RSEL 5	5	solder terminal	max. 0.50 mm ²	UL 🍗 느
30550	RSEL 8	8	solder terminal	max. 0.50 mm ²	UL 🍗 느
934636458	RSELP 4	4	solder terminal	max. 0.50 mm ²	
71089	RSELP 5	5	solder terminal	max. 0.50 mm ²	

M12 Receptacle Connectors for Actuators and Sensors - Male Connectors with Printed Circuit **Board Pins or Stranded Hook-up Wire for Food & Beverage**

Product Description		
Order Designation	PRSFM	PRSFM/0.5 M
Description	Receptacle connector, M12 male connector, for front mounting, stainless steel housing, solder terminals, conductor terminal area not potted. M16 x 1.5 screw coupling at mounting side	Receptacle connector, M12 male connector, for front mounting, stain- less steel housing, assembled with stranded hook-up wire, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side
Note	Mounting using RSKFM 16. Especially suitable for use in the food proce	
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-10	
Approvals	UL	
Technical Data		
Ambient Temperature	-40 °C t	o +90 °C
Housing Material/Grip	Stainle	ss steel
Contact Holder Material	P	ВТ
Contact Material/Surface Finish	CuZn, gold ove	er nickel plating
Mechanical Data		
Degree of Protection	IP67, IP69K (only when mate	d to associated counterparts)
Electrical Data		
Contact Resistance	≤5	mΩ
Rated Voltage	4-pin 250 V, 5-pin 60 V, 8-pin 30 V (with PCB de	esign the conductor terminal area must be potted)
Rated Current	4 and 5-pin	4 A, 8-pin 2 A
Pollution Degree		3
Technical Drawing		
	M12×1 Ø1 SW17 SW17	MIZAT 91 SM17

^{*}a = 0-ring supplied loose
*b = Important note: To ensure the mechanical stability and leak-tightness, the conductor terminal area must be potted after the cable is assembled.
*c = Conductor terminal area potted

4-pin	5-pin	8-pin	
1 = brown 2 = white 3 = blue 4 = black	1 = brown 2 = white 3 = blue 4 = black 5 = green/y	a ellow $ \begin{array}{ccccccccccccccccccccccccccccccccccc$	5 = gray 6 = pink 7 = blue 8 = red
	Contact 5 le	ading	

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
46477	PRSFM 4	4	PCB solder pin	-	UL P
46002	PRSFM 5	5	PCB solder pin	-	Or 🕒 📥
45703	PRSFM 4/0.5 M	4	stranded hook-up wire	0.34 mm ²	Or 🕒 📥
45704	PRSFM 5/0.5 M	5	stranded hook-up wire	1 x 0.50/4 x 0.34 mm ²	Or 🕒 📂
47297	PRSFM 8/0.5 M	8	stranded hook-up wire	0.22 mm ²	Or 🕒 📥

M12 Receptacle Connectors - Data - Industrial Ethernet - Female Connectors

0006 EEC A	EF12M OCTOPUS
USOO EFU A	EFIZM OUTUPUS
Industrial Ethernet receptacle connector, M12 female connector, for front mounting, 4-pin, D-coding, assembled with stranded hook-up wire, conductor AWG 22, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side 0986 EFC 151 A: adjustable 0986 EFC 153 A: not adjustable	Industrial Ethernet receptacle connector, M12 female connector, for front mounting, 4-pin, D-coding, adjustable, assembled with strander hook-up wire, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side
Adjusting nut and 0-ring supplied loose.	O-ring supplied loose; mounting nut ELST-M M16 must be ordered separately.
Yes	
IEC 61076-2-101	
-	UL
-25 °C to +80 °C, mind cable temperature range	-25 °C to +90 °C, mind cable temperature range
CuZn, nic	kel-plated
TPU	PA
CuZn, go	old-plated
CuZn, nic	kel-plated
IP65, IP67 (only when mate	d to associated counterparts)
≤ 5 mΩ	≤ 10 mΩ
25	50 V
4	A
	3
M12x1 1	(2) white (3) orange (5) blind hole (4) blue
	front mounting, 4-pin, Ď-coding, assembled with stranded hook-up wire, conductor AWG 22, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side 0986 EFC 151 A: adjustable 0986 EFC 153 A: not adjustable Adjusting nut and 0-ring supplied loose. Yes IEC 61076-2-101

^{*}a = 0-ring supplied loose $\bullet *b = Adjusting nut and 0$ -ring supplied loose $\bullet *c = Conductor terminal area potted$

4-pin, D-coding



1 = yellow 2 = white 3 = orange 4 = blue

Order Information

Order No.	Order Designation	No. of Pins	Characteristics
68836	0986 EFC 151 A	4	
57761	0986 EFC 153 A	4	
934450021	EF12M OCTOPUS	4	UL 🍗 🥌

M12 Receptacle Connectors - Data - Industrial Ethernet - Female Connectors

Product Description		
Order Designation	EF12L OCTOPUS	EF12LW OCTOPUS
Description	Industrial Ethernet receptacle connector, M12 female connector, for front and printed circuit board mounting, 4-pin, D-coding, PCB contacts straight	Industrial Ethernet receptacle connector, M12 female connector, for front and printed circuit board mounting, 4-pin, D-coding, PCB contacts angled
Note	Adjusting nut and 0-ring supplied loose.	O-ring supplied loose; mounting nut ELST-M M16 must be ordered separately.
RoHS-compliant (2011/65/EU)	Yes	
(Construction Type) Standard	IEC 61076-2-101	
Approvals	UL	
Technical Data		
Ambient Temperature	-25 °C	to +90 °C
Housing Material/Grip	CuZn, ni	ckel-plated
Contact Holder Material		PA
Contact Material/Surface Finish	CuZn, nickel unde	erlay and gold-plated
Screw Coupling Material	CuZn, ni	ckel-plated
Mechanical Data		
Degree of Protection	IP67 (only when mated	to associated counterparts)
Electrical Data		
Contact Resistance	≤	5 mΩ
Rated Voltage	1	50 V
Rated Current		4 A
Pollution Degree		3
Technical Drawing		
	X X X X X X X X X X X X X X X X X X X	

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Characteristics
934451021	EF12L OCTOPUS	4	PCB solder pin	UL 🍗 느
934451521	EF12LW OCTOPUS	4	PCB solder pin	UL 🍗 느

M12 Receptacle Connectors - Data - Industrial Ethernet - Female Connectors

Product Description				
Order Designation	0986 EFC 152	0986 EFC 158	0986 EFC 651 (HAWA)	
Description	Industrial Ethernet receptacle connector, M12 female connector for rear panel mounting, 4-pin, D-coding, PCB contacts, PG 9 screw coupling at mounting side	Industrial Ethernet receptacle connector, M12 female connector for rear panel mounting, with shield sheet, 4-pin, D-coding, PCB contacts, PG 9 screw coupling at mounting side	Industrial Ethernet receptacle connector, M12 female connector for front mounting, 8-pin, X-coding, PCB contacts, PG 9 screw coupling at mounting side	
Note	Mounting using RSKF 9	_	_	
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101		DIN EN 61076-2-109	
Approvals	_		3.1.2.1.0.1.0.0	
Technical Data				
Ambient Temperature	-30 °C t	O +80 °C	-25 °C to +85 °C	
Housing Material/Grip		kel-plated	CuZn, nickel-plated	
	<u>'</u>	· '		
Contact Holder Material		PU	PA	
Contact Material/Surface Finish		CuZn, gold-plated		
Screw Coupling Material		CuZn, nickel-plated		
Mechanical Data				
Degree of Protection	I	P67 (only when mated to associated counterpart	(S)	
Electrical Data				
Contact Resistance		≤ 5 mΩ		
Rated Voltage		0 V	48 V	
Rated Current		Α	0.5 A	
Pollution Degree		3	3/2	
Technical Drawing				
	# P P P P P P P P P P P P P P P P P P P	920 920 9335 M12X1 9065 9155 9215 9153 9	The property of the control of the coding of	

^{*}a = Nut • *b = 0-ring • *c = 0-ring • *d = Conductor terminal area potted • *e = Anti-twist protection • *f = Installation hole for anti-twist protection • *g = Drill pattern in printed circuit board

4-pin, D-coding

8-pin, X-coding



1 = yellow 2 = white 3 = orange 4 = blue



Order Information

Order No.	Order Designation	No. of Pins	Characteristics
64161	0986 EFC 152	4	
104090	0986 EFC 158	4	
934637031	0986 EFC 651	8	

M12 Receptacle Connectors - Data (PROFIBUS®) - Female Connectors

Technical Information

Product Description			
Order Designation	0976 PFC 151	0976 PFC 157	
Description	Receptacle connector, for front mounting, assembled with stranded hook-up wire (0.5 m), conductor terminal area potted, with adjusting nut, 5-pin, B-coding: especially suitable for PROFIBUS, M12 female connector, M16 x 1.5 screw coupling at mounting side		
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	UL	-	
Technical Data			
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range	
Housing Material/Grip	CuZn, nickel-plated	Stainless steel	
Contact Holder Material	Т	PU	
Contact Material/Surface Finish	CuZn, nickel under	lay and gold-plated	
Screw Coupling Material	CuZn, nic	kel-plated	
Mechanical Data			
Degree of Protection	IP67 (only when mated to	associated counterparts)	
Electrical Data			
Contact Resistance	≤5	mΩ	
Rated Voltage	60	0 V	
Rated Current	4	Α	
Pollution Degree		3	
Technical Drawing			
	M12x1 *a SW17 *b SW17 *b SW18	M12×1 M12×1 M12×1 SW17	

0976 PFC 151: $^*a = 0$ -ring \bullet $^*b = Adjusting$ nut and 0-ring supplied loose \bullet $^*c = Conductor$ terminal area potted \bullet L = Standard length of stranded hook-up wire 0976 PFC 157: $^*a = 0$ -ring \bullet $^*b = 0$ -ring supplied loose \bullet $^*c = Conductor$ terminal area potted \bullet L = Standard length of stranded hook-up wire 0.5 m

5-pin, B-coding



1 = brown 2 = green 3 = blue 4 = red 5 = green/yellow

Order Information

Order No.	Order Designation	No. of Pins	Terminal Type	Conductor Size	Characteristics
91458	0976 PFC 157	5	stranded wire	0.50 mm ²	
18317	0976 PFC 151	5	stranded wire	0.50 mm ²	UL 🍗 느

Conversion table $\,mm^2$ to AWG on page 20.

M12 Receptacle Connectors - Data (PROFIBUS®) - Female Connectors

Technical Information

Product Description			
Bestellbezeichnung	0976 PFC 152	0976 PFC 159	0976 PFC 160
Description	PROFIBUS receptacle connector, for front mounting, M12 female connector, 5-pin, B-coding, PCB contacts, PG 9 screw coupling at mounting side	PROFIBUS receptacle connector, for rear panel mounting, M12 female connector, 5-pin, B-coding, PCB contacts, PG 9 screw coupling at mounting side	PROFIBUS receptacle connector, for rear pane mounting, M12 female connector, with shield sheet, 5-pin, B-coding, PCB contacts, PG 9 screw coupling at mounting side
Note	Especially suitable for PROFIBUS	-	Mounting using RSKF 9
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	UL	-	-
Technical Data			
Ambient Temperature	-25 °C to +90 °C	-25 °C to +80 °C	-30 °C to +80 °C
Housing Material/Grip		CuZn, nickel-plated	
Contact Holder Material		TPU	
Contact Material/Surface Finish		CuZn, gold-plated	
Screw Coupling Material		CuZn, nickel-plated	
Mechanical Data			
Degree of Protection	l l	P67 (only when mated to associated counterpart	ts)
Electrical Data			
Contact Resistance		≤ 5 mΩ	
Rated Voltage		60 V	
Rated Current		4 A	
Pollution Degree		3	
Technical Drawing			
	*d 2:1	Anti-twist protection Sheet metal opening with anti-twist protection	*** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** ** *** *** *** *** *** *** *** *** *** *** *** *** **

0976 PFC 152: *a = 0-ring • *b = 0-ring supplied loose • *c = Conductor terminal area potted • L = Drill pattern in printed circuit board 0976 PFC 160: *a = Nut • *b = 0-ring • *c = 0-ring • *d = Terminal area potted • *e = Anti-twist protection • *f = Installation hole for anti-twist protection • *g = Drill pattern in printed circuit board

5-pin, B-coding



Order Information

Order No.	Order Designation	No. of Pins	Characteristics
25005	0976 PFC 152	5	UL 🍗 느
103429	0976 PFC 159	5	
104088	0976 PFC 160	5	

M12 Receptacle Connectors - Data (PROFIBUS®) - Male Connectors

Technical Information

Product Description				
Order Designation	0976 PMC 151	0976 PMC 157		
Description	PROFIBUS receptacle connector, for front mounting, M12 male connector, assembled with stranded hook-up wire (0.5 m), conductor terminal area potted, with adjusting nut, 5-pin, B-coding, M16 x 1.5 screw coupling at mounting side	PROFIBUS receptacle connector, for front mounting, M12 male connector, stainless steel design, assembled with stranded hook-u wire (0.5 m), conductor terminal area potted, with adjusting nut, 5-pin, B-coding, M16 x 1.5 screw coupling at mounting side		
Note	Especially suitable for use in the food & beverage industry.	-		
RoHS-compliant (2011/65/EU)	Yes			
(Construction Type) Standard	IEC 61076-2-101			
Approvals	UL	_		
Technical Data				
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range		
Housing Material/Grip	CuZn, nickel-plated	Stainless steel		
Contact Holder Material		PU		
Contact Material/Surface Finish	CuZn, nickel under	rlay and gold-plated		
Screw Coupling Material		ckel-plated		
Mechanical Data				
Degree of Protection	IP67 (only when mated to	o associated counterparts)		
Electrical Data				
Contact Resistance	≤5	imΩ		
Rated Voltage	6	0 V		
Rated Current	4	I A		
Pollution Degree		3		
Technical Drawing				
	M16×1.5	M12×1 Ø1 M16×1.5 M16×1.5		
	9 SW 18			

0976 PMC 151: *a = Adjusting nut and 0-ring supplied loose • *b = Conductor terminal area potted • L = Standard length of stranded hook-up wire 0976 PMC 157: *a = 0-ring supplied loose • *b = Conductor terminal area potted • L = 0.5 m

5-pin, B-coding



1 = brown

2 = green 3 = blue 4 = red 5 = green/yellow

Contact 5 leading

Order Information

Order No.	Order Designation	No. of Pins	Conductor Size	Characteristics
18315	0976 PMC 151	5	1 x 0.50/4 x 0.34 mm ²	UL 🍗 느
91459	0976 PMC 157	5	1 x 0.50/4 x 0.34 mm ²	

Conversion table \mbox{mm}^2 to AWG on page 20.

M12 Receptacle Connectors - Data (PROFIBUS®) - Male Connectors

Technical Information

roduct Description		
rder Designation	0976 PMC 152	0976 PMC 160
escription	PROFIBUS receptacle connector, for front mounting, M12 male connector, 5-pin, B-coding, PCB contacts, PG 9 screw coupling at mounting side	PROFIBUS receptacle connector, for rear panel mounting, M12 male connector, with shield sheet, 5-pin, B-coding, PCB contacts, PG 9 screw coupling at mounting side
oHS-compliant (2011/65/EU)	Yes	
Construction Type) Standard	IEC 61076-2-10	
pprovals	UL	-
echnical Data		
mbient Temperature	-25 °C to +90 °C	-30 °C to +80 °C
ousing Material/Grip		ckel-plated
ontact Holder Material		PU
ontact Material/Surface Finish		old-plated
crew Coupling Material		ckel-plated
lechanical Data		
egree of Protection	IP67 (only when mated to	o associated counterparts)
lectrical Data	ii or (eiii) iiioir iilatea e	o described souther, parties,
ontact Resistance	<5	imΩ
ated Voltage		0 V
ated Current		4 A
ollution Degree		3
echnical Drawing		
	M12x1 e1 e0.8 Pg9 sw 17 b 2:1 5x 012	920 Pg9 M12x1 90.5 90.5 921.5

0976 PMC 152: $^*a = 0$ -ring supplied loose * $^*b = C$ onductor terminal area potted $^*L = 0.5$ m 0976 PMC 160: $^*a = nut ^*b = 0$ -ring $^*c = 1$ Terminal area potted $^*d = 1$ Anti-twist protection $^*e = 1$ Installation hole for anti-twist protection $^*f = 1$ Drill pattern in printed circuit board

5-pin, B-coding



1 = brown 2 = green 3 = blue 4 = red 5 = green/yellow

Contact 5 leading

Order Information

Order No.	Order Designation	No. of Pins	Characteristics
25006	0976 PMC 152	5	UL 🍗 🖦
104089	0976 PMC 160	5	

M12 Receptacle Connectors - Data (CANopen®/DeviceNet™) - Female/Male Connectors

Technical Information

Product Description	0000 PF0 0F4	0936 DMC 351	
Order Designation	0936 DFC 351		
Description	Receptacle connector, M12 female connector, for front mounting, 5-pin, adjustable, assembled with stranded hook-up wire, conductor terminal area potted, M16 x 1.5 screw coupling at mounting side	Receptacle connector, M12 male connector, for front mounting, 5-pin, adjustable, assembled with stranded hook-up wire, conductor terminal area potted. M16 x 1.5 screw coupling at mounting side	
Note	Especially suitable for DeviceNet™ and CANopen®.		
RoHS-compliant (2011/65/EU)	Yes		
(Construction Type) Standard	IEC 61076-2-101		
Approvals	UL		
Technical Data			
Ambient Temperature	-25 °C to +80 °C, mind	cable temperature range	
Housing Material/Grip	CuZn, nic	ckel-plated	
Contact Holder Material	Т	PU	
Contact Material/Surface Finish	CuSn, nickel underlay and gold-plated	CuZn, nickel underlay and gold-plated	
Screw Coupling Material	CuZn, nic	ckel-plated	
Mechanical Data			
Degree of Protection	IP67 (only when mated to	o associated counterparts)	
Electrical Data			
Contact Resistance	≤5	imΩ	
Rated Voltage	60 V (UL 3	30 V AC/DC)	
Rated Current	4	1 A	
Pollution Degree		3	
Technical Drawing			
	M12x1 SW17 M16x1.5 M16x1.5 SW18	21 91 SW 17 SW 18 SW 18	

0936 DFC 351: $^*a = 0$ -ring $^*b = Adjusting$ nut and 0-ring supplied loose $^*c = C$ onductor terminal area potted 0936 DMC 351: $^*a = Adjusting$ nut and 0-ring supplied loose $^*b = C$ onductor terminal area potted

0936 DFC 351 Pin Assignment

5-pin



1 = green 2 = red 3 = black 4 = white 5 = blue

0936 DMC 351 Pin Assignment

5-pin



1 = green 2 = red 3 = black 4 = white 5 = blue

Contact 5 leading

Order Information

Order No.	Order Designation	No. of Pins	Conductor Size	Characteristics
26433	0936 DFC 351	5	0.22 mm ²	UL 🍗 🖦
26432	0936 DMC 351	5	0.22 mm ²	UL 🍗 🥌