

M8-Receptacle Connectors In Accordance With IEC 61076-2-104

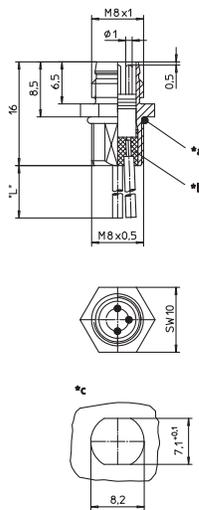
RSMF/0.5 M | RKMf/0.5 M



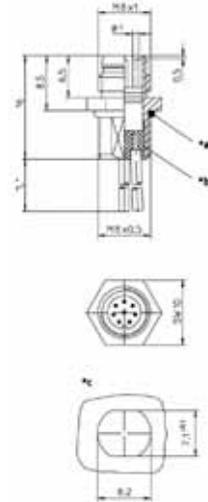
Male, 3-, 4-, and 8-Pole

Receptacle connector, M8 male connector for front mounting, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M8 x 0.5 (panel nut RSKF 8).

RSMF 3/0.5 M



RSMF 8/0.5 M



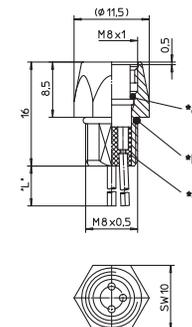
*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 *c cut out
 L 0.5 m



Female, 3-, 4-, and 8-Pole

Receptacle connector, M8 female connector for front mounting, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M8 x 0.5 (panel nut RSKF 8).

RKMf/0.5 M

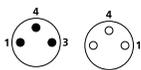


*d O-Ring
 *b O-ring enclosed separately
 *c solder contacts potted with epoxy
 *d cut out
 *L*0.5 m

Pin Assignments

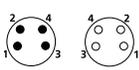
Face Views

M8 - 3 poles



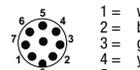
1 = brown
 2 = blue
 4 = black

M8 - 4 poles



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

M8 - 8 poles



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



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M8-Receptacle Connectors In Accordance With IEC 61076-2-104
RSMF/0.5 M | RKMF/0.5 M

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
Insert PA
Contact CuZn, pre-nickel and 0.8 microns gold-plated
O-ring FKM

Electrical

Contact resistance RSMF: ≤ 5 mΩ
Nominal current at 40°C RSMF 8: 1 A
RSMF: 4 A
Nominal voltage 60 V
RSMF 8: 32 V
Test voltage 1.5 kV eff. / 60 s
RSMF 8: 0.8 kV eff. / 60 s
Insulation resistance > 10⁹ Ω
Pollution degree 3

Part Number		Pins	Characteristics
RSMF 3/0,5 M	RKMF 3/0,5 M	3	 
RSMF 4/0,5 M	RKMF 4/0,5 M	4	 
RSMF 8/0,5 M		8	 

M8-Receptacle Connectors In Accordance With IEC 61076-2-104

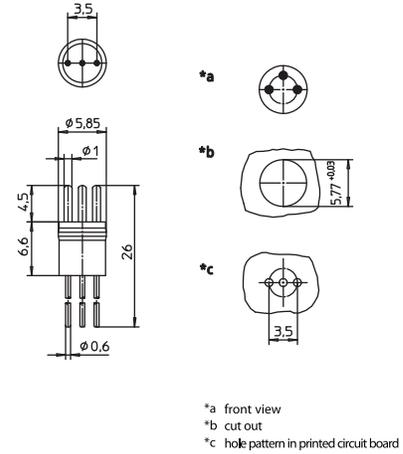
RSME | RSMEK | RSMEK...L



Male, 3-Pole

Receptacle connector, M8 male connector for sensors, with long solder contacts, solid contacts on solder side.

RSME



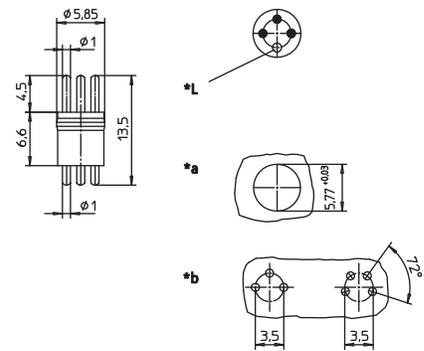
*a front view
*b cut out
*c hole pattern in printed circuit board



Male, 3- and 4-Pole

Receptacle connector, M8 male connector for sensors, with short solder contacts, solid contacts on solder side, RSMEK...L: with ventilation hole 1.1 mm Ø.

RSMEK | RSMEK...L

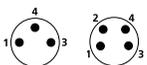


*a cut out
*b hole pattern in printed circuit board
*L ventilation hole Ø 1.1 mm

Pin Assignments

Face Views

M8 - 3 and 4 poles





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M8-Receptacle Connectors In Accordance With IEC 61076-2-104
 RSME | RSMEK | RSMEK...L

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Insert PA
 Contact CuZn, pre-nickel and 0.8 microns gold-plated

Electrical

Contact resistance $\leq 5 \text{ m}\Omega$
 Nominal current at 40°C 4 A
 Nominal voltage 60 V
 Rated voltage 63 V
 Test voltage 1.5 kV eff. / 60 s
 Insulation resistance $> 10^9 \Omega$
 Pollution degree 3

Receptacles

Part Number	Pins	Ventilation hole	Contact (soldering side)	Characteristics
RSME 3	3		solid contact	
RSMEK 3L		1.1 mm Ø	solid contact	
RSMEK 4	4		solid contact	

M8-Receptacle Connectors In Accordance With IEC 61076-2-104

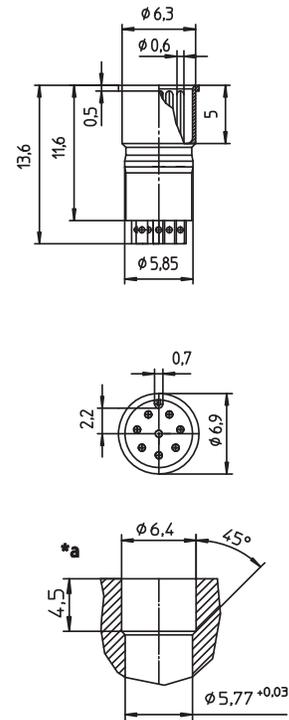
RSEM



Male, 8-Pole

Receptacle connector, M8 male connector for sensors, with long solder contacts, solid contacts on solder side.

RSEM



*a cut out

Pin Assignments

Face Views

M8 - 8 poles





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M8-Receptacle Connectors In Accordance With IEC 61076-2-104
RSEM

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Insert PA
 Contact CuZn, pre-nickel and 0.8 microns gold-plated
 Mode of connection solder connection

Electrical

Nominal current at 40°C 1 A
 Nominal voltage 32 V
 Test voltage 0.8 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Receptacles

Part Number	Pins	Contact (soldering side)	Characteristics
RSEM 8	8	solid contact	

M8-Receptacle Connectors In Accordance With IEC 61076-2-104

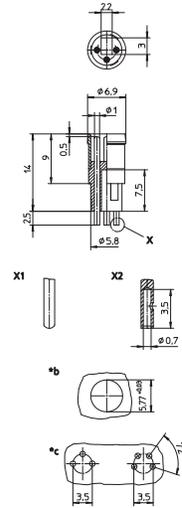
RSMEJ | RSMEH | RSMED | RSMEB



Male, 3 and 4-Pole

Receptacle connector, M8 male connector for sensors, with snap-in joint, translucent ring, short solder contacts, hollow contacts (RSMEJ) or solid contacts (RSMEH) on solder side.

RSMEJ | RSMEH



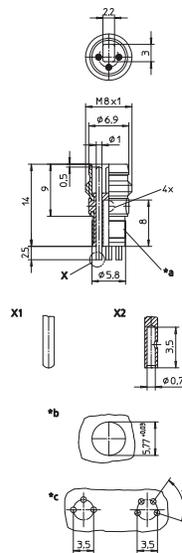
*X1 solid
*X2 hollow
*b cut out
*c hole pattern in printed circuit board



M8 Male, 3 and 4-Pole

Receptacle connector, M8 male connector for sensors, with combined snap-in/threaded joint, 4 light indicator windows, mounting hole for LED, short solder contacts, hollow contacts (RSMED) or solid contacts (RSMEB) on solder side

RSMED | RSMEB

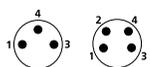


*X1 solid
*X2 hollow
*b cut out
*c hole pattern in printed circuit board

Pin Assignments

Face Views

M8 - 3 and 4 poles





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M8-Receptacle Connectors In Accordance With IEC 61076-2-104
 RSMEJ | RSMEH | RSMED | RSMEB

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert PA
 Contact CuZn, pre-nickeled and 0.8 microns gold-plated
 Mode of connection solder connection
 Connectable conductor max. 0.25 mm²

Electrical

Contact resistance ≤ 5 mΩ
 Nominal current at 40°C 4 A
 Nominal voltage 60 V
 Rated voltage 63 V
 Test voltage 1.5 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Part Number		Pins	Contact (soldering side)	Characteristics
RSMEJ 3	RSMED 3	3	hollow contact	 
RSMEH 3	RSMEB 3		solid contact	 
	RSMED 4	4	hollow contact	 
RSMEH 4	RSMEB 4		solid contact	 

M8-Receptacle Connectors In Accordance With IEC 61076-2-104

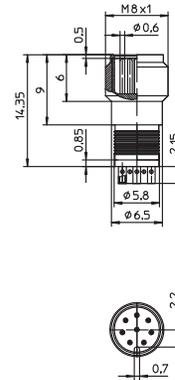
RSMEDG | RSMEDGN



Male, 8-Pole

Receptacle connector, M8 male connector for sensors, with combined snap-in/threaded joint, mounting hole for LED, short solder contacts, hollow contacts on solder side.

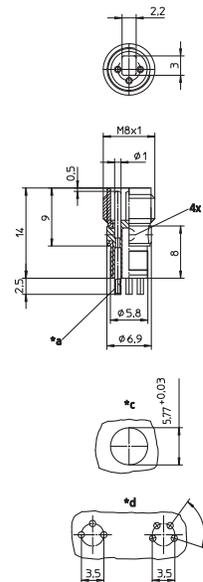
RSMEDG



Male, 3 and 4-Pole

Receptacle connector, M8 male connector for sensors, with housing of stainless steel, threaded joint, 4 light indicator windows, mounting hole for LED, short solder contacts, hollow contact on solder side.

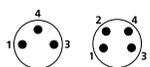
RSMEDGN



Pin Assignments

Face Views

M8 - 3 and 4 poles



M8 - 8 poles



*a hollow
*c cut out
*d hole pattern in printed circuit board



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M8-Receptacle Connectors In Accordance With IEC 61076-2-104
 RSMEDG | RSMEDGN

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert PA
 Contact CuZn, pre-nickeled and 0.8 microns gold-plated
 Mode of connection solder connection
 Connectable conductor max. 0.14 mm²

Electrical

Contact resistance ≤ 5 mΩ
 Nominal current at 40°C 1.5 A
 Nominal voltage 30 V
 Test voltage 0.5 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Receptacles

Part Number	Pins	Contact (soldering side)	Characteristics
RSMEDGN 3	3		
RSMEDGN 4	4		
RSMEDG 8	8	hollow contact	

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

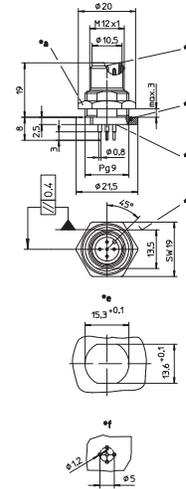
RSHL | RKHL | 0986 EFC 152



Male, 4-, 5- and 8-Pole

Receptacle connector, M12 male connector for rear mounting, 4-, 5-, and 8-pole, print contacts, chassis side thread PG 9 (panel nut RSKF 9).

RSHL



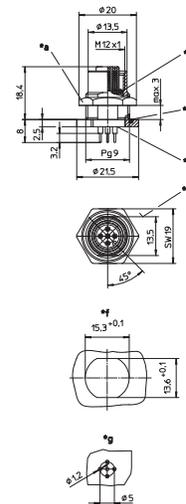
- *a nut
- *b O-Ring
- *c solder contacts potted with epoxy
- *d anti-rotation protection
- *e cut out for anti-rotation
- *f hole pattern in printed circuit board



Female, 4-, 5- and 8-Pole

Receptacle connector, M12 female connector for rear mounting, 4-, 5-, and 8-pole, printed contacts, chassis side thread PG 9 (panel nut RSKF 9) 0986 EFC 152: 4 poles, D coding.

RKHL

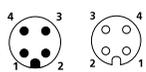


- *a nut
- *b O-Ring
- *c solder contacts potted with epoxy
- *d anti-rotation protection
- *e cut out for anti-rotation
- *f hole pattern in printed circuit board
- *v center contact leading

Pin Assignments

Face Views / M12

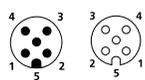
4 poles



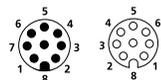
4 poles D-Coding



5 poles



8 poles





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M12-Receptacle Connectors In Accordance With IEC 61076-2-101

RSHL | RKHL | 0986 EFC 152

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert PA
 Contact CuZn, pre-nickeled and 0.8 microns gold-plated
 O-ring FKM2

Electrical

Contact resistance ≤ 5 mΩ
 Nominal current at 40°C 4-5 poles 4 A
 8 poles 2 A
 Nominal voltage 4 poles 240 V;
 5-8 poles 60 V
 encapsulated
 Rated voltage 4 poles 250 V;
 5-8 poles 63 V
 Test voltage 4 poles 2.0 kV eff. / 60 s
 5-8 poles 1.5 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Part Number		Pins	Characteristics
RSHL 4/S 5.5	RKHL 4/S 5.5	4	
	0976 EFC 152	4D	
RSHL 5/S 5.5	RKHL 5/S 5.5	5	
RSHL 8/S 5,5	RKHL 8/S 5,5	8	

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

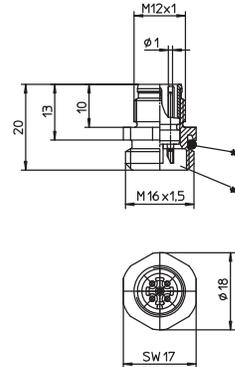
RSFM | PRSFM



Male, 3-, 4- and 5-Pole

Receptacle connector, combined FIXCON/M12 male connector for front mounting, solder connections, chassis side thread M16 x 1.5 (panel nut RSKFM 16).

RSFM



*a O-ring enclosed separately
*b Attention!
To ensure mechanical stability and impermeability, the wire connections must be epoxy potted after cable assembly.

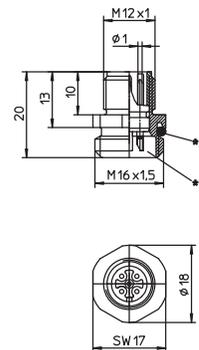


Male, 3-, 4- and 5-Pole

Receptacle connector, M12 male connector for front mounting, housing of stainless steel, solder contacts not potted, chassis side thread M16 x 1.5 (panel nut RSKFM 16)

– especially designed for use in food processing equipment –.

PRSFM



*a O-ring enclosed separately
*b Attention!
To ensure mechanical stability and impermeability, the wire connections must be epoxy potted after cable assembly.

Pin Assignments

Face Views / M12

3 poles



4 poles



5 poles





Be Certain with Belden

M12-Receptacle Connectors In Accordance With IEC 61076-2-101 RSFM | PRSFM

Technical Data

Environmental

Degree of protection	IP 67 / NEMA 6P
Operating temperature range	RSFM: -25°C (-13°F) / +80°C (+176°F) PRSFM: -25°C (-13°F) / +70°C (+158°F)

Mechanical

Housing / Molded body	RSFM: CuZn, nickel-plated PRSFM: stainless steel
Insert	RSFM: PA PRSFM: PBT
Contact	CuZn, pre-nickel and 0.8 microns gold-plated
O-ring	RSFM: FKM PRSFM: EPDM

Electrical

Contact resistance	≤ 5 mΩ
Nominal current at 40°C	4 A
Nominal voltage	3–4 poles 240 V 5 poles 60 V Connection area must be epoxy potted.
Rated voltage	3–4 poles 250 V 5 poles 63 V
Test voltage	3–4 poles 2.0 kV eff. / 60 s 5–8 poles 1.5 kV eff. / 60 s
Insulation resistance	> 10 ⁹ Ω
Pollution degree	3

Part Number	Pins	Characteristics
RSFM 3	3	
RSFM 4	4	
PRSFM 4		
RSFM 5	5	
PRSFM 5		

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

FWD 5 | FWD 5B

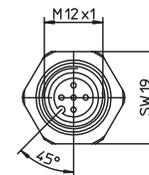
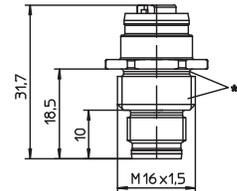
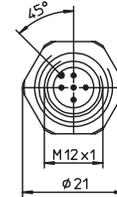


Male, 5-Pole

Receptacle connector, combined FIXCON/M12 male connector to combined FIXCON/M12 female connector.

– especially designed for use as panel feed through –

FWD 5 | FWD 5B



Pin Assignments

Face Views / M12

Male Connector : 5 poles



Female Connector: 5 poles



Male Connector: 5 poles B Coding



Female Connector: 5 poles B Coding





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M12-Receptacle Connectors In Accordance With IEC 61076-2-101
 FWD 5 | FWD 5B

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert Male connector PA 6.6
 Insert Female connector TPU, self-extinguishing
 Contact CuZn, pre-nickeled and 0.8 microns gold-plated
 O-ring FKM

Electrical

Contact resistance $\leq 5 \text{ m}\Omega$
 Nominal current at 40°C 4 A
 Nominal voltage 60 V
 Test voltage 1.5 kV eff. / 60 s
 Insulation resistance $> 10^9 \Omega$
 Pollution degree 3

Part Number	Pins	Characteristics
FWD 5	5	
FWD 5B	5B	

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

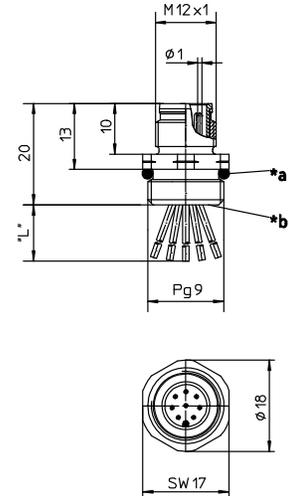
RSF 3...8 | RKF 3...8



Male, 3-, 4-, 5- and 8-Pole

Receptacle, 3-, 4-, 5-, and 8-pole, male, M12 for front mounting, 24 and 22 AWG, panel mount thread PG9.

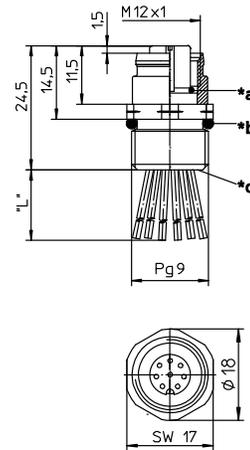
RSF 3...8



Female, 3-, 4-, 5- and 8-Pole

Receptacle, 3-, 4-, 5-, and 8-pole, female, M12 for front mounting, 24 and 22 AWG, panel mount thread PG9.

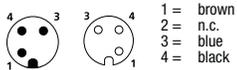
RKF 3...8



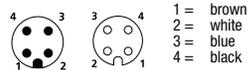
Pin Assignments

Face Views / M12, Male / Female

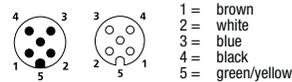
3 pole



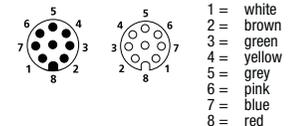
4 pole



5 pole



8 pole





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M12-Receptacle Connectors In Accordance With IEC 61076-2-101
 RSF 3...8 | RKF 3...8

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +90°C (+194°F)

Mechanical

Housing Brass, nickel-plated
 Insert PUR, black (female)
 3-, 4- and 5-Pole: Nylon (male)
 8-Pole: PUR, black (male)
 Contact Brass, gold over nickel-plated

Electrical

Current rating 3-5 Pole: 4 A
 8 Pole: 1.5 A
 Voltage rating 3-5 Pole: 250 V
 8 Pole: 30 V / 36 V DC

Accessories

Panel nut (RSKF 9)

Part Number	Pins	Characteristics
RSF 3/0.5M RKF 4-3/0.5M	3	 
RSF 4/0.5M RKF 4/0.5M	4	 
RSF 5/0.5M RKF 5/0.5M	5	 
RSF 8/0.5M RKF 8/0.5M	8	 

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

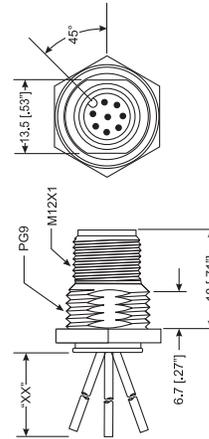
RSF S3103 | RKF S3103



Male, 3-, 4-, 5- and 8-Pole

Receptacle, 3-, 4-, 5- and 8-pole, male, M12 for back mounting, 24 and 22 AWG, panel mount thread PG9.

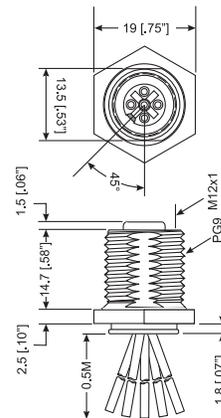
RSF S3103



Female, 3-, 4-, 5- and 8-Pole

Receptacle, 3-, 4-, 5- and 8-pole, female, M12 for back mounting, 24 and 22 AWG, panel mount thread PG9.

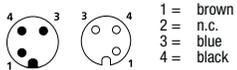
RKF S3103



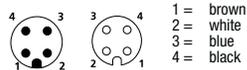
Pin Assignments

Face Views / M12, Male / Female

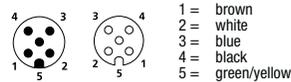
3 pole



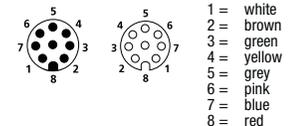
4 pole



5 pole



8 pole





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M12-Receptacle Connectors In Accordance With IEC 61076-2-101
 RSF S3103 | RKF S3103

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +90°C (+194°F)

Mechanical

Housing Brass, nickel-plated
 Insert PUR, black (female)
 3-, 4- and 5-Pole: Nylon, black (male)
 8-Pole: PUR, orange (male)
 Contact Brass, gold over nickel-plated

Electrical

Current rating 3-5 Pole: 4 A
 8 Pole: 1.5 A
 Voltage rating 3-5 Pole: 250 V
 8 Pole: 30 V / 36 V DC

Accessories

Panel nut (RSKF 9)

Part Number		Pins	Characteristics
RSF 3-S3103/0.5 M	RKF 4-3-S3103/0.5 M	3	 
RSF 4-S3103/0.5 M	RKF 4-S3103/0.5 M	4	 
RSF 5-S3103/0.5 M	RKF 5-S3103/0.5 M	5	 
RSF 8-S3103/0.5 M	RKF 8-S3103/0.5 M	8	 

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

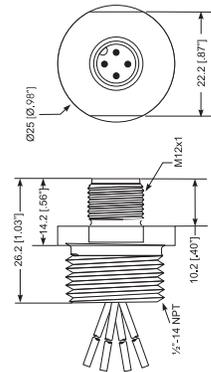
RSF 1/2-14 | RKF 1/2-14



Male, 3-, 4-, 5- and 8-Pole

Receptacle, 3-, 4-, 5- and 8-pole, male, M12 for front mounting, 24 and 22 AWG, panel mount thread 1/2"-14 NPT.

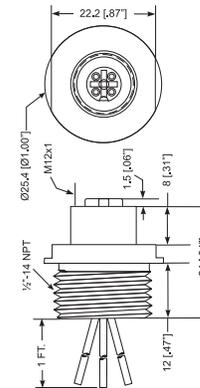
RSF 1/2-14



Female, 3-, 4-, 5- and 8-Pole

Receptacle, 3-, 4-, 5- and 8-pole, female, M12 for front mounting, 24 and 22 AWG, panel mount thread 1/2"-14 NPT.

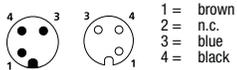
RKF 1/2-14



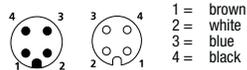
Pin Assignments

Face Views / M12, Male / Female

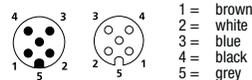
3 pole



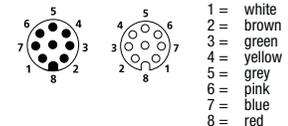
4 pole



5 pole



8 pole





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M12-Receptacle Connectors In Accordance With IEC 61076-2-101
 RSF 1/2-14 | RKF 1/2-14

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +90°C (+194°F)

Mechanical

Housing Aluminum, blue anodized
 Insert PUR, black (female)
 3-, 4- and 5-Pole: Nylon, black (male),
 8-Pole: PUR, orange (male)
 Contact Brass, gold over nickel-plated
 Mounting 1/2" 14-NPT

Electrical

Nominal current 3-, 4- and 5-Pole: 4 A
 8-Pole: 1.5 A
 Voltage rating 3-, 4- and 5-Pole: 250 V
 8-pole: 30 V AC / 36 V DC

Part Number		Pins	Characteristics
RSF 3-1/2-14/0.5M	RKF 4-3-1/2-14/0.5M	3	 
RSF 4-1/2-14/0.5M	RKF 4-1/2-14/0.5M	4	 
RSF 5-1/2-14/0.5M	RKF 5-1/2-14/0.5M	5	 
RSF 8-1/2-14/0.5M	RKF 8-1/2-14/0.5M	8	 

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

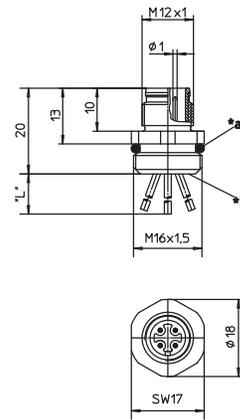
RSFM/0.5 M | RKFM/0.5 M



Male, 3-, 4-, 5- and 8-Pole

Receptacle connector, combined FIXCON/M12 male connector for front mounting, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M16 x 1.5 (panel nut RSKFM 16).

RSFM/0.5 M



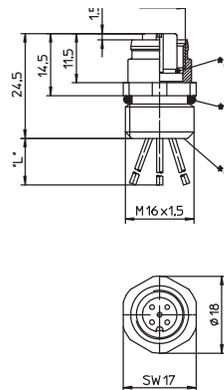
*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 L 0,5 m



Female, 3-, 4-, 5- and 8-Pole

Receptacle connector, combined FIXCON/M12 female connector for front mounting, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M16 x 1.5 (panel nut RSKFM 16).

RKFM/0.5 M

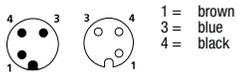


*a O-Ring
 *b O-ring enclosed separately
 *c solder contacts potted with epoxy

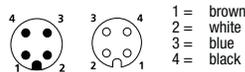
Pin Assignments

Face Views / M12, Male / Female

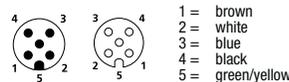
3 pole



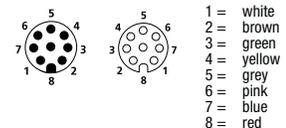
4 pole



5 pole



8 pole





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M12-Receptacle Connectors In Accordance With IEC 61076-2-101
 RSFM/0.5 M | RKFM/0.5 M

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert PA
 Contact 8 poles TPU
 CuZn, pre-nickel and 0.8 microns gold-plated
 O-ring FKM

Electrical

Contact resistance ≤ 5 mΩ
 Nominal current at 40°C 3-5 poles 4 A
 8 poles 1,5 A
 Nominal voltage 3-4 poles 240 V
 5 poles 60 V
 poles 30 V
 Rated voltage 3-4 poles 250 V
 5 poles 63 V
 8 poles 36 V
 Test voltage 3-4 poles 2.0 kV eff. / 60 s
 5-8 poles 1.5 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Part Number	Pins	Leads (mm ²)	Characteristics
RSFM 3/0.5 M RKFM 4-3/0.5 M	3	0.34	 
RSFM 4/0.5 M RKFM 4/0.5 M	4	0.34	 
RSFM 5/0.5 M RKFM 5/0.5 M	5	4 x 0.34 / 1 x 0.50	 
RSFM 8/0.5 M RKFM 8/0.5 M	8	0.25	 

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

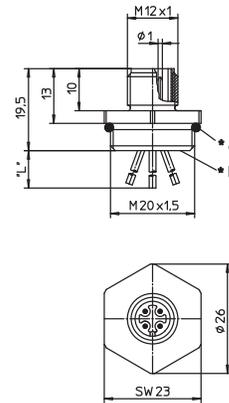
RSFM.../20/0.5 M | RKFM.../20/0.5 M



Male, 3- and 4-Pole

M12 Receptacle connector, combined FIXCON/ M12 male connector for front mounting, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M20 x 1.5 (panel nut RSKFM 20).

RSFM.../20/0.5 M



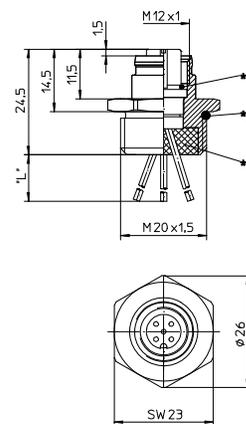
*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 *L*0.5 m



M12 Female, 3-, 4-, and 5-Pole

M12 Receptacle connector, combined FIXCON/ M12 female connector for front mounting, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M20 x 1.5 (panel nut RSKFM 20).

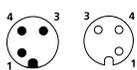
RKFM.../20/0.5 M



Pin Assignments

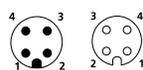
Face Views / M12, Male / Female

3 pole



1 = brown
 3 = blue
 4 = black

4 pole



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

5 pole



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



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M12-Receptacle Connectors In Accordance With IEC 61076-2-101

RSFM.../20/0.5 M | RKFM.../20/0.5 M

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert PA
 Contact 8 poles TPU
 CuZn, pre-nickeled and 0.8 microns gold-plated
 O-ring FKM

Electrical

Contact resistance ≤ 5 mΩ
 Nominal current at 40°C 3-5 poles 4 A
 8 poles 1,5 A
 Nominal voltage 3-4 poles 240 V
 5 poles 60 V
 poles 30 V
 Rated voltage 3-4 poles 250 V
 5 poles 63 V
 8 poles 36 V
 Test voltage 3-4 poles 2.0 kV eff. / 60 s
 5-8 poles 1.5 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Part Number	Pins	Lead (mm ²)	Characteristics
RSFM 3/20/0.5 M	3	0.34	
RSFM 4/20/0.5 M	4	0.34	
RKFM 5/20/0.5 M	5	4 x 0.34 / 1 x 0.50	

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

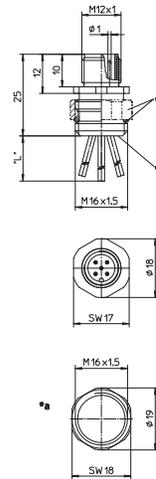
RSFPM.../0.5 M | RKFPM.../0.5 M



Male, 3-, 4-, 5- and 8-Pole

M12 Receptacle connector, combined FIXCON/ M12 male connector for front mounting, adjustable, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M16 x 1.5.

RSFPM.../0.5 M



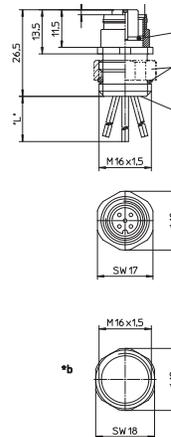
*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 *L*0.5 m



Female, 3-, 4-, 5- and 8-Pole

M12 Receptacle connector, combined FIXCON/ M12 female connector for front mounting, adjustable, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M16 x 1.5.

RKFPM.../0.5 M

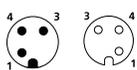


*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 *L*0.5 m

Pin Assignments

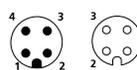
Face Views / M12, Male / Female

3 pole



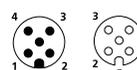
1 = brown
 3 = blue
 4 = black

4 pole



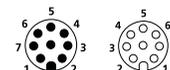
1 = brown
 2 = white
 3 = blue
 4 = black

5 pole



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

8 pole



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



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M12-Receptacle Connectors In Accordance With IEC 61076-2-101

RSFPM.../0.5 M | RKFPM.../0.5 M

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert PA
 8 poles TPU
 Contact CuZn, pre-nickel and 0.8 microns gold-plated
 O-ring FKM
 RSFM.../20: Neoprene

Electrical

Contact resistance $\leq 5 \text{ m}\Omega$
 Nominal current at 40°C
 3–5 poles 4 A
 8 poles 1,5 A
 Nominal voltage
 3–4 poles 240 V
 5 poles 60 V
 poles 30 V
 Rated voltage
 3–4 poles 250 V
 5 poles 63 V
 8 poles 36 V
 Test voltage
 3–4 poles 2.0 kV eff. / 60 s
 5–8 poles 1.5 kV eff. / 60 s
 Insulation resistance $> 10^9 \Omega$
 Pollution degree 3

Part Number		Pins	Lead (mm ²)	Characteristics
RSFPM 3/0,5 M	RKFPM 4-3/0,5 M	3	0.34	 
RSFPM 4/0,5 M	RKFPM 4/0,5 M	4	0.34	 
RSFPM 5/0,5 M	RKFPM 5/0,5 M	5	4 x 0.34 / 1 x 0.50	 
RSFPM 8/0,5 M	RKFPM 8/0,5 M	8	0.25	 

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

PRSFM/0.5 M | PRKFM/0.5 M

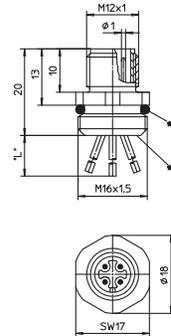


Male, 4-, 5- and 8-Pole

M12 Receptacle connector, M12 male connector for front mounting, housing of stainless steel, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M16 x 1.5 (panel nut RSKFM 16)

– especially designed for use in food processing equipment –

PRSFM/0.5 M



*a O-ring enclosed separately
*b solder contacts potted with epoxy
*L 0,5 m

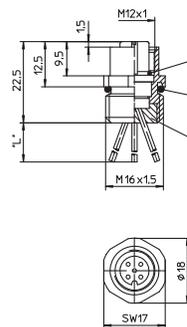


Female, 4-, 5- and 8-Pole

M12 Receptacle connector, M12 female connector for front mounting, housing of stainless steel, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M16 x 1.5 (panel nut RSKFM 16)

– especially designed for use in food processing equipment –

PRKFM/0.5 M

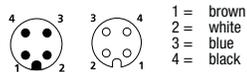


*a O-Ring
*b O-ring enclosed separately
*c solder contacts potted with epoxy
*L 0,5 m

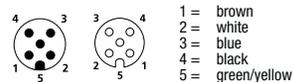
Pin Assignments

Face Views / M12, Male / Female

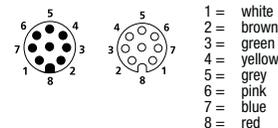
4 pole



5 pole



8 pole





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M12-Receptacle Connectors In Accordance With IEC 61076-2-101
 PRSFM/0.5 M | PRKFM/0.5 M

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +70°C (+158°F)

Mechanical

Housing / Molded body stainless steel
 Insert PBT
 Contact CuZn, pre-nickel and 0.8 microns gold-plated
 O-ring EPDM

Electrical

Contact resistance ≤ 5 mΩ
 Nominal current at 40°C 4–5 poles 4 A
 8 poles 2 A
 Nominal voltage 4 poles 240 V
 5 poles 60 V
 8 poles 30 V
 Rated voltage 4 poles 250 V
 5 poles 63 V
 8 poles 36 V
 Test voltage 4 poles 2.0 kV eff. / 60 s
 5–8 poles 1.5 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Receptacles

Part Number	Pins	Lead (mm ²)	Characteristics
PRSFM 4/0,5 M PRKFM 4/0,5 M	3	0.34 (22 AWG)	 
PRSFM 5/0,5 M PRKFM 5/0,5 M	5	1 x 0.5 / 4 x AWG 22	 
PRSFM 8/0,5 M PRKFM 8/0,5 M	8	0.22 (24 AWG)	 

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

0936 DMC 351 | 0936 DFC 351

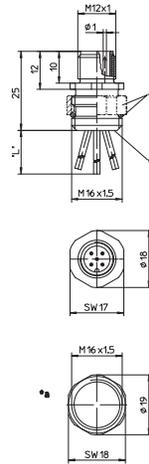


Male, 5-Pole

Receptacle connector, M12 male connector for front mounting, 5 poles, adjustable, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M16 x 1.5.

– especially suitable for DeviceNet and CANopen –

0936 DMC 351



*a adjustable nut and o-ring enclosed separately
*b solder contacts potted with epoxy
L*0.5 m

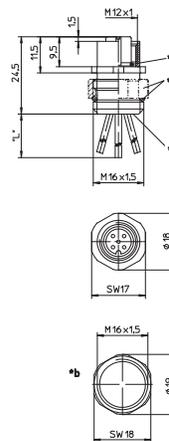


Female, 5-Pole

Receptacle connector, M12 female connector for front mounting, 5 poles, adjustable, assembled stranded wire, solder contacts potted with epoxy, chassis side thread M16 x 1.5.

– especially suitable for DeviceNet and CANopen –

0936 DFC 351

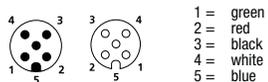


*a adjustable nut and o-ring enclosed separately
*b solder contacts potted with epoxy
L*0.5 m

Pin Assignments

Face Views / M12

Male / Female Connector: 5 poles





Be Certain with Belden

M12-Receptacle Connectors In Accordance With IEC 61076-2-101
 0936 DMC 351 | 0936 DFC 351

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+176°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert TPU, self-extinguishing
 Contact CuZn, pre-nickel and 0.8 microns gold-plated
 O-ring FKM
 Adjustable nut CuZn, nickel-plated

Electrical

Contact resistance $\leq 5 \text{ m}\Omega$
 Nominal current at 40°C 4 A
 Nominal voltage 60 V
 Test voltage 1.5 kV eff. / 60 s
 Insulation resistance $> 10^9 \Omega$
 Pollution degree 3

Receptacles

Part Number	Pins	Lead (mm ²)	Characteristics
0936 DMC 351 0936 DFC 351	5	0.22	 

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

RSF 5 TB | RKF 5 TB

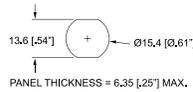
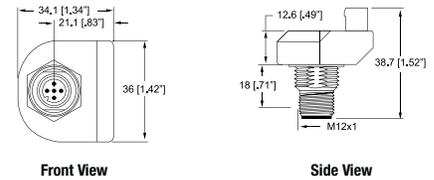


Male, 5-Pole to Terminal Block

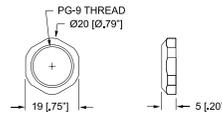
Receptacle, 5-pole, male to terminal block receptacle.

– especially suitable for panel-mount/
feedthrough applications –

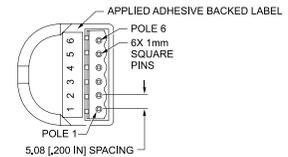
RSF 5 TB



Recommended Panel
Cut-Out



Panel Nut Dimensions



Rear View

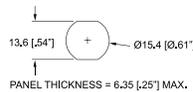
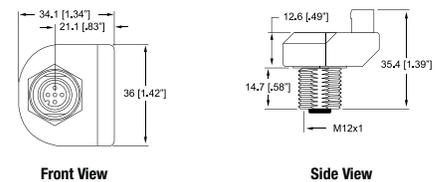


Female, 5-Pole to Terminal Block

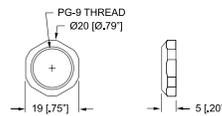
Receptacle, 5-pole, female to terminal block receptacle.

– especially suitable for panel-mount/
feedthrough applications –

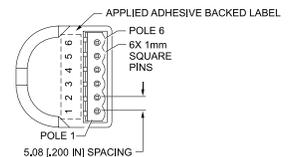
RKF 5 TB



Recommended Panel
Cut-Out



Panel Nut Dimensions

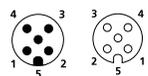


Rear View

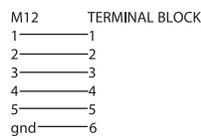
Pin Assignments

Face Views / M12

Male / Female



Wiring Diagram





Be Certain with Belden

M12-Receptacle Connectors In Accordance With IEC 61076-2-101
 RSF 5 TB | RKF 5 TB

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +90°C (+194°F)

Mechanical

M12 Connector
 Shell CuZn, nickel plated
 Panel Nut CuZn, nickel plated
 Contacts CuZn, gold plated
 Insert Polyurethane, black
 Sealing Viton
 Terminal Block Receptacle
 Header Body Polyamide 66, green
 Pins CuZn, tin plated
 Overmold Polyamide, black

Electrical

Current rating 4 A
 Voltage rating 250 V

Recommended Mating Terminal Block

(Lumberg Part Numbers)
 MC 100-508-06 180° wire exit
 MC 200-508-06 90° wire exit (included)

Part Number	Pins	Characteristics
RSF 5 TB RKF 5 TB	5	

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

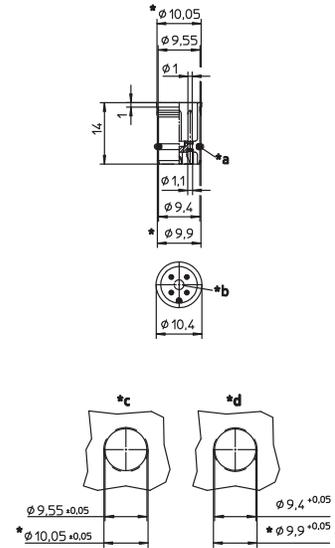
RSE | RSEQ



M12 Male, 4- and 5-Pole

Receptacle connector, M12 male connector for sensors, with short solder contacts RSE0: Pin 5 not leading (RSE and RSEQ).

RSE | RSEQ



- *a O-ring enclosed separately
- *b ventilation hole
- *c cut out with O-ring
- *d cut out without O-ring

Pin Assignments

Face Views / M12 Male

4 pole



5 pole





Be Certain with Belden

M12-Receptacle Connectors In Accordance With IEC 61076-2-101
RSE | RSEQ

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
Operating temperature range -25°C (-13°F) / +80°C (+194°F)

Mechanical

Insert PA
Contact CuZn, pre-nickel and 0.8 microns gold-plated
O-ring FKM
Mode of connection solder connection
Connectable conductor solid max. 0.75 mm²
stranded wire max. 0.50 mm²

Electrical

Contact resistance ≤ 5 mΩ
Nominal current at 40°C 4 A
Nominal voltage 4 poles 240 V
5 poles 60 V
encapsulated
Rated voltage 4 poles 250 V
5 poles 63 V
Test voltage 4 poles 2.0 kV eff. / 60 s
5 poles 1.5 kV eff. / 60 s
Insulation resistance > 10⁹ Ω
Pollution degree 3

Part Number	Pins	Ventilation hole	Characteristics
RSE 4	4	-	
RSE 4 L		2.0 mm Ø	
RSE 5	5	-	
RSEQ 5		-	

M12-Receptacle Connectors In Accordance With IEC 61076-2-101

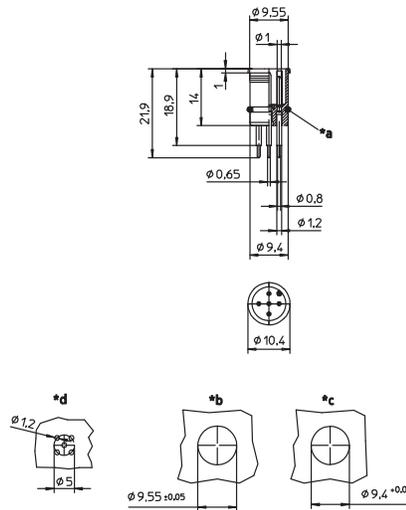
RSEL | RSELP



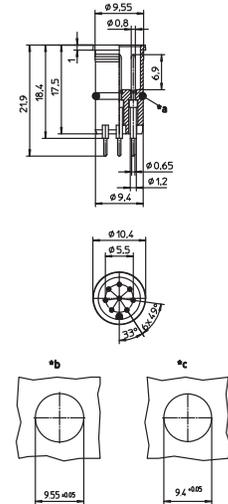
Male, 4-, 5-, and 8-Pole

Receptacle connector, M12 male connector for sensors, solder contacts for printed circuit board mounting.

RSEL



RSEL 8 POLE



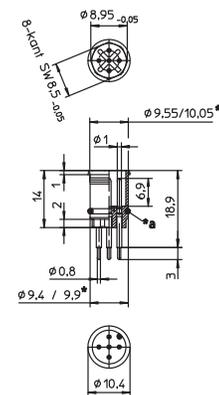
- *a O-ring enclosed separately
- *b ventilation hole
- *c cut out with O-ring
- *d cut out without O-ring



Male, 4- and 8-Pole

Receptacle connector, M12 male connector for sensors, with octagonal shape as antirotation protection, solder contacts for printed circuit board mounting.

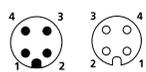
RSELP



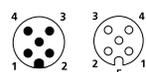
Pin Assignments

Face Views / M12, Male / Female

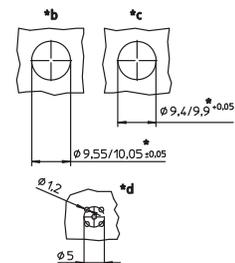
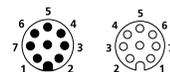
4 pole



5 pole



8 pole





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M12-Receptacle Connectors In Accordance With IEC 61076-2-101
RSEL | RSELP

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
Operating temperature range -25°C (-13°F) / +80°C (+194°F)

Mechanical

Insert PA
Contact CuZn, pre-nickel and 0.8 microns gold-plated
O-ring FKM
Mode of connection printed circuit board mount

Electrical

Contact resistance ≤ 5 mΩ
Nominal current at 40°C 4–5 poles 4 A
8 poles 2 A
Nominal voltage 4 poles 240 V
5 poles 60 V
8 poles 30 V
encapsulated
Rated voltage 4 poles 250 V
5 poles 63 V
8 poles 36 V
Test voltage 4 poles 2.0 kV eff. / 60 s
5–8 poles 1.5 kV eff. / 60 s
Insulation resistance > 10⁹ Ω
Pollution degree 3

Part Number	Pins	Characteristics
RSEL 4 RSELP 4	4	
RSEL 5 RSELP 5	5	
RSEL 8	8	

1/2"-20-Receptacle Connectors, Automotive Color Code

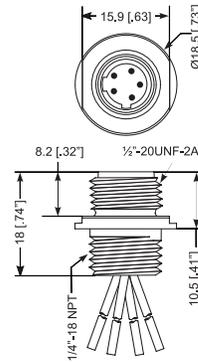
RSF 3 U | RKF 3 U



Male, 3-, 4-, and 5-Pole

1/2"-20 receptacle, dual keyway, 3-, 4-, and 5- pole, male for front mounting, dual keyway, 22 AWG, flying leads, panel mount thread 1/4-18 NPT, Automotive color code.

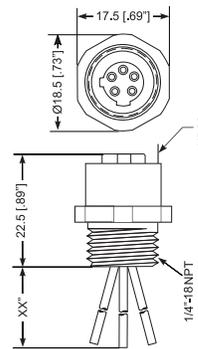
RSF 3 U



Female, 3-, 4-, and 5-Pole

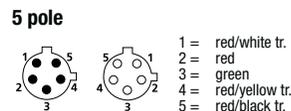
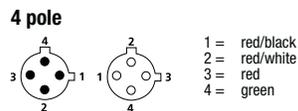
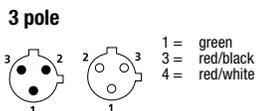
1/2"-20 receptacle, dual keyway, 3-, 4-, and 5-pole, female for front mounting, dual keyway, 22 AWG, flying leads, panel mount thread 1/4-18 NPT, Automotive color code.

RKF 3 U



Pin Assignments

Face Views, Male / Female





Be Certain with Belden

1/2"-20-Receptacle Connectors, Automotive Color Code
 RSF 3 U | RKF 3 U

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +90°C (+194°F)

Mechanical

Housing CuZn, nickel plated
 Mounting 1/4" 18 NPT
 Contacts CuZn, gold over nickel plated
 Insert Nylon, black

Electrical

Current rating 4 A
 Voltage rating 250 V
 Conductor 22 AWG

Receptacles

Part Number		Pins	Characteristics
RSF 3 U/1F	RKF 3 U/1F	3	  
RSF 4 U/1F	RKF 4 U/1F	4	  
RSF 5 U/1F	RKF 5 U/1F	5	  

1/2"-20-Receptacle-Insert Connectors

RSE 3 U | RSE 4 U | RSE 5 U



Male, 3-, 4-, and 5-Pole

1/2"-20 receptacle, dual keyway, 3-, 4-, and 5- pole, male insert.

RSE 3 U | RSE 4 U | RSE 5 U

Pin Assignments

Face Views, Male / Female

3 pole



4 pole



5 pole





Be Certain with Belden

1/2"-20-Receptacle-Insert Connectors

RSE 3 U | RSE 4 U | RSE 5 U

Technical Data

Environmental

Degree of protection IP 67 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +80°C (+194°F)

Mechanical

Insert PA
 Contact CuZn, pre-nickel and 0.8 microns gold-plated
 O-ring FKM
 Mode of connection solder connection
 Connectable conductor solid max. 0.75 mm²
 stranded wire max. 0.50 mm²

Electrical

Contact resistance ≤ 5 mΩ
 Nominal current at 40°C 4 A
 Nominal voltage 3-4 poles 240 V
 5 poles 60 V encapsulated
 Rated voltage 3-4 poles 250 V
 5 poles 63 V
 Test voltage 3-4 poles 2.0 kV eff. / 60 s
 5 poles 1.5 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Part Number	Pins	Characteristics
RSE 3 U	3	
RSE 4 U	4	
RSE 5 U	5	

7/8" Mini-Receptacle Connectors, Front Mount, IEC Color Code

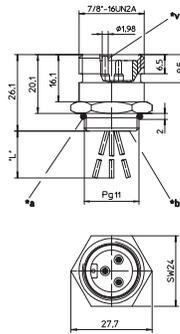
RSF.../11 | RSF.../13.5 | RKF.../11 | RKF.../13.5



Male, 2-, 3-, 4-, and 5-Pole

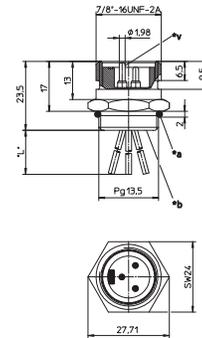
Receptacle connector, 7/8"-A body, male 2-, 3-, 4-, and 5-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread PG11 or PG13.5, screw connection (panel nut RSKF 11 or RSKF 13.5).

RSF.../11



*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 *L 0.3 m

RSF.../13.5



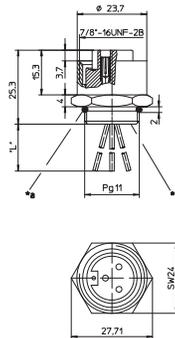
*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 *V center contact leading
 *L 0.3 m



Female, 2-, 3-, 4-, and 5-Pole

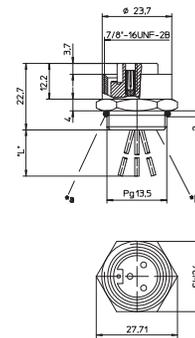
Receptacle connector, 7/8"-A body, female 2-, 3-, 4-, and 5-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread PG11 or PG13.5, screw connection (panel nut RSKF 11 or RSKF 13.5).

RKF.../11



*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 *L 0.3 m

RKF.../13.5

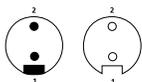


*a O-ring enclosed separately
 *b solder contacts potted with epoxy
 *L 0.3 m

Pin Assignments

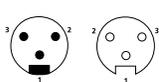
Face Views, 7/8"-Male / Female

2 pole



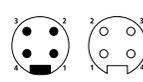
1 = brown
 2 = blue

3 pole



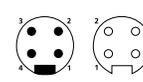
1 = brown
 2 = black
 3 = blue

4 pole



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

5 pole



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



Be Certain with Belden

7/8" Mini-Receptacle Connectors, Front Mount, IEC Color Code

RSF.../11 | RSF.../13.5 | RKF.../11 | RKF.../13.5

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -25°C (-13°F) / +90°C (+194°F)

Mechanical

Housing / Molded body CuZn, nickel-plated
 Insert TPU, self-extinguishing
 Contact CuZn, silver-plated and 0.3 microns gold-plated

Electrical

Contact resistance ≤ 5 mΩ
 Nominal current at 40°C 2-3 poles 12 A
 4-5 poles 9 A
 Nominal voltage 240 V
 Rated voltage 250 V
 Test voltage 3-4 poles 2.5 kV eff. / 60 s
 5 poles 1.5 kV eff. / 60 s
 Insulation resistance > 10⁹ Ω
 Pollution degree 3

Part Number				Pins	Lead (mm ²)	Characteristics
Male PG11	Male PG13.5	Female PG11	Female PG13.5			
RSF 20/11-03	RSF 20/13.5-03	RKF 20/11-03	RKF 20/13.5-03	2	0.75	 
RSF 30/11-01	RSF 30/13.5-01	RKF 30/11-01	RKF 30/13.5-01	3	0.75	 
RSF 30/11-05	RSF 30/13.5-05	RKF 30/11-05	RKF 30/13.5-05		0.75	 
RSF 40/11-02	RSF 40/13.5-02	RKF 40/11-02	RKF 40/13.5-02	4	0.5	 
RSF 50/11-04	RSF 50/13.5-04	RKF 50/11-04	RKF 50/13.5-04	5	0.5	 

7/8" Mini-Receptacle Connectors, Front Mount, US Color Code

RSF 20...60A | RKF 201...601A

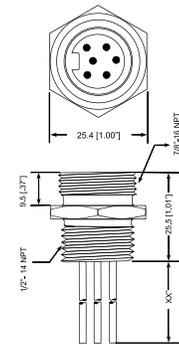


Male, 2-, 3-, 4-, 5, and 6-Pole

Receptacle connector, 7/8"-A body, male 2-, 3-, 4-, 5, and 6-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

– US Color Code –

RSF 20...60A

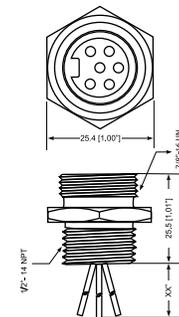


Female, 2-, 3-, 4-, 5, and 6-Pole

Receptacle connector, 7/8"-A body, female 2-, 3-, 4-, 5, and 6-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

– US Color Code –

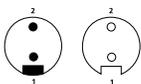
RKF 201...601A



Pin Assignments

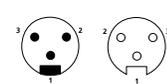
Face Views, 7/8"-Male / Female

2 pole



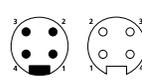
1 = white
2 = black

3 pole



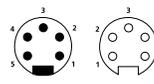
1 = green
2 = black
3 = white

4 pole



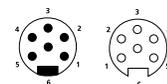
1 = black
2 = white
3 = red
4 = green

5 pole



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

6 pole



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



Be Certain with Belden

7/8" Mini-Receptacle Connectors, Front Mount, US Color Code
 RSF 20...60A | RKF 201...601A

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -40°C (-40°F) / +90°C (+194°F)

Mechanical

Insert TPU, yellow
 Contacts CuZn, gold plated
 Receptacle shell Zinc die cast (e-coated black)
 Locknut Steel, zinc plated
 O-ring Viton

Electrical

Current rating 2 pole: 12 A
 3-5 pole: 8 A
 6 pole: 5 A
 Voltage rating 2-5 pole: 600 V
 6 pole: 300 V

Part Number	Pins	Gauge	Characteristics
RSF 20-678/1F RKF 201-678/1F	2	16	  
RSF 30-638/1F RKF 301-638/1F	3	16	  
RSF 40-639/1F RKF 401-639/1F	4	16	  
RSF 50-677/1F RKF 501-677/1F	5	16	  
RSF 60A-697/1F RKF 601A-697/1F	6	18	 

7/8" Mini-Receptacle Connectors, Front Mount, Automotive Color Code

RSF 30...50 | RKF 301...501

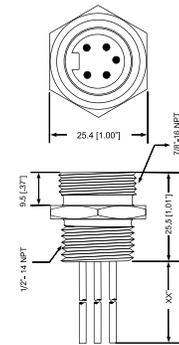


Male, 3- and 5-Pole

Receptacle connector, 7/8"-A body, male 3- and 5-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- Automotive Color Code -

RSF 30...50

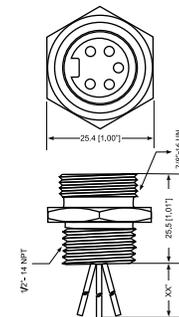


Female, 3- and 5-Pole

Receptacle connector, 7/8"-A body, female 3- and 5-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- Automotive Color Code -

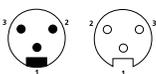
RKF 301...501



Pin Assignments

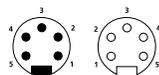
Face Views, 7/8"-Male / Female

3 pole



- 1 = green
- 2 = red/black
- 3 = red/white

5 pole



- 1 = red/white
- 2 = red
- 3 = green
- 4 = red/yellow
- 5 = red/black



Be Certain with Belden

7/8" Mini-Receptacle Connectors, Front Mount, Automotive Color Code
 RSF 30...50 | RKF 301...501

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -40°C (-40°F) / +90°C (+194°F)

Mechanical

Insert TPU, yellow
 Contacts CuZn, gold plated
 Receptacle shell Zinc die cast (e-coated black)
 Locknut Steel, zinc plated
 O-ring Viton

Electrical

641 and 642
 Current rating 8 A
 Voltage rating 600 V

690
 Current rating 5.6 A
 Voltage rating 300 V

Part Number	Pins	Gauge	Characteristics
RSF 30-641/1F RKF 301-641/1F	3	16	  
RSF 50-642/1F RKF 501-642/1F	5	16	  
RSF 50-690/1F RKF 501-690/1F	5	18	  

7/8" Mini-Receptacle Connectors, Front Mount, IEC Color Code

RSF 20...50 | RKF 20...50

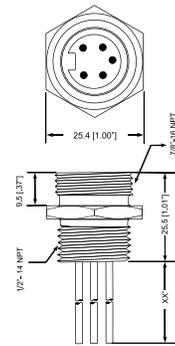


Male, 2-, 3-, 4-, and 5-Pole

Receptacle connector, 7/8"-A body, male 2-, 3-, 4-, and 5-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- IEC Color Code -

RSF 20...50

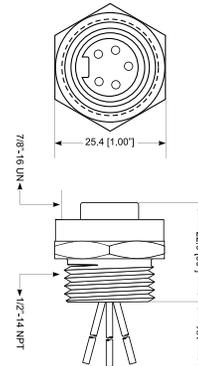


Female, 2-, 3-, 4-, and 5-Pole

Receptacle connector, 7/8"-A body, female 2-, 3-, 4-, and 5-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- IEC Color Code -

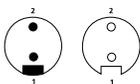
RKF 201...501



Pin Assignments

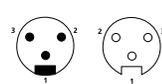
Face Views, 7/8"-Male / Female

2 pole



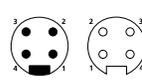
1 = brown
2 = blue

3 pole



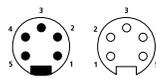
1 = black
2 = brown
3 = blue

4 pole



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

5 pole



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



Be Certain with Belden

7/8” Mini-Receptacle Connectors, Front Mount, IEC Color Code
 RSF 20...50 | RKF 20...50

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -40°C (-40°F) / +90°C (+194°F)

Mechanical

Molded body TPU, yellow
 Contacts CuZn, gold plated
 Receptacle shell RSF: Zinc die cast (e-coated black)
 RKF: Aluminum (clear anodized)
 Locknut Steel, zinc plated
 O-ring Viton

Electrical

Current rating 2 pole: 12 A
 3 pole: 8 A
 4 and 5 pole: 5.6 A
 Voltage Rating 300 V

Part Number	Pins	Gauge	Characteristics
RSF 20-603/0.3 M RKF 20-603/0.3 M	2	18	
RSF 30-695/0.3 M RKF 30-695/0.3 M	3	18	
RSF 40-693/0.3 M RKF 40-693/0.3 M	4	18	
RSF 50-694/0.3 M RKF 50-694/0.3 M	5	18	

7/8" Mini-Receptacle Connectors, Front Mount, EURO AC Color Code

RSF 30 | RKF 30

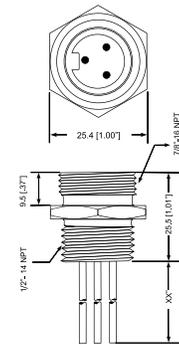


Male, 3-Pole

Receptacle connector, 7/8"-A body, male 3-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- EURO AC Color Code -

RSF 30

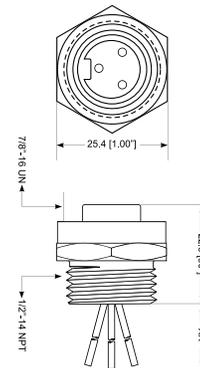


Female, 3-Pole

Receptacle connector, 7/8"-A body, female 3-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- EURO AC Color Code -

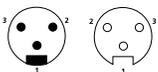
RKF 30



Pin Assignments

Face Views, 7/8"-Male / Female

3 pole



- 1 = yellow/green
- 2 = brown
- 3 = blue



Be Certain with Belden

7/8" Mini-Receptacle Connectors, Front Mount, EURO AC Color Code
 RSF 30 | RKF 30

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -40°C (-40°F) / +90°C (+194°F)

Mechanical

Insert TPU, yellow
 Contacts CuZn, gold plated
 Receptacle shell RSF: Zinc die cast (e-coated black)
 RKF: Aluminum (clear anodized)
 Locknut Steel, zinc plated
 O-ring Viton

Electrical

Current rating 8 A
 Voltage rating 300 V

Receptacles

Part Number	Pins	Gauge	Characteristics
RSF 30-601/0.3M RKF 30-601/0.3M	3	18	  

1" Mini-Receptacle Connectors, Front Mount, US Color Code

RSF 60B...80M | RKF 601B...801M

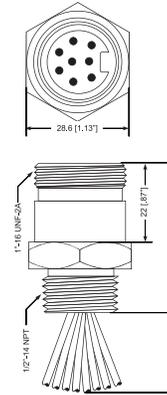


Male, 6-, 7-, and 8-Pole

Receptacle connector, 1"-B body, male
6-, 7-, and 8-pole for front mounting,
assembled stranded wire, potted with epoxy,
chassis side thread 1/2" NPT, screw connection.

- US Color Code -

RSF 60B...80M

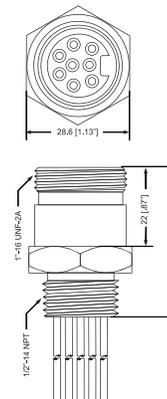


Female, 6-, 7-, and 8-Pole

Receptacle connector, 1"-B body, female
6-, 7-, and 8-pole for front mounting,
assembled stranded wire, potted with epoxy,
chassis side thread 1/2" NPT, screw connection.

- US Color Code -

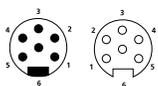
RKF 601B...801M



Pin Assignments

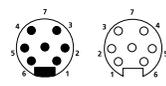
Face Views, 1"-Male / Female

6 pole



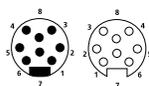
- 1 = orange
- 2 = blue
- 3 = black
- 4 = white
- 5 = red
- 6 = green

7 pole



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

8 pole



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



Be Certain with Belden

1" Mini-Receptacle Connectors, Front Mount, US Color Code
 RSF 60B...80M | RKF 601B...801M

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -40°C (-40°F) / +90°C (+194°F)

Mechanical

Insert TPU, yellow
 Contacts CuZn, gold plated
 Receptacle shell Aluminum (anodized, clear)
 Locknut Steel, zinc plated
 O-ring Viton

Electrical

Current rating 6 and 7 pole: 8 A
 8 pole: 7 A
 Voltage rating 600 V

Part Number	Pins	Gauge	Characteristics
RSF 60B-696/1F RKF 601B-696/1F	6	16	
RSF 70M-622/1F RKF 701M-622/1F	7	16	
RSF 80M-698/1F RKF 801M-698/1F	8	16	

1 1/8" Mini-Receptacle Connectors, Front Mount, US Color Code

RSF 90M...120M | RKF 901M...1201M

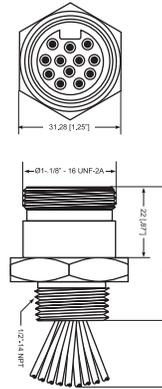


Male, 9-, 10-, and 12-Pole

Receptacle connector, 1 1/8"-c body, male 9-, 10-, and 12-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- US Color Code -

RSF 90M...120M

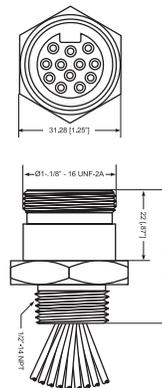


Female, 9-, 10-, and 12-Pole

Receptacle connector, 1 1/8"-c body, female 9-, 10-, and 12-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- US Color Code -

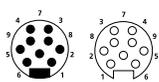
RKF 901M...1201M



Pin Assignments

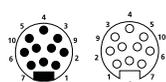
Face Views, 1 1/8"-Male / Female

9 pole



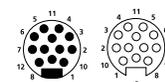
- 1 = orange
- 2 = blue
- 3 = red/black
- 4 = green/black
- 5 = white
- 6 = red
- 7 = green
- 8 = white/black
- 9 = white

10 pole



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

12 pole



- 1 = orange
- 2 = blue
- 3 = white/black
- 4 = red/black
- 5 = green/black
- 6 = orange/black
- 7 = blue/black
- 8 = black/white
- 9 = green
- 10 = red
- 11 = white
- 12 = black



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1 1/8" Mini-Receptacle Connectors, Front Mount, US Color Code
 RSF 90M...120M | RKF 901M...1201M

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -40°C (-40°F) / +90°C (+194°F)

Mechanical

Insert TPU, yellow
 Contacts CuZn, gold plated
 Receptacle shell Aluminum (anodized, clear)
 Locknut Steel, zinc plated
 O-ring Viton

Electrical

Current rating 9 and 10 pole: 7 A
 12 pole: 5 A
 Voltage rating 600 V

Part Number	Pins	Gauge	Characteristics
RSF 90M-623/1F RKF 901M-623/1F	9	16	  
RSF 100M-699/1F RKF 1001M-699/1F	10	16	  
RSF 120M-624/1F RKF 1201M-624/1F	12	16	  

1 1/8" Mini-Receptacle Connectors, Front Mount, IEC Color Code

RSF 120M | RKF 1201M

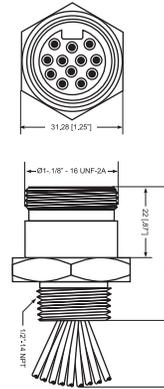


Male, 11/12-Pole

Receptacle connector, 1 1/8"-c body, male 12-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- IEC Color Code -

RSF 120M

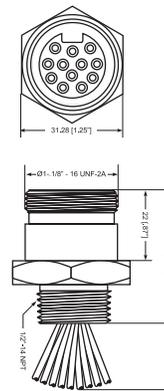


Female, 11/12-Pole

Receptacle connector, 1 1/8"-c body, female 12-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- IEC Color Code -

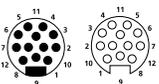
RKF 1201M



Pin Assignments

Face Views, 1 1/8"-Male / Female

12 pole



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



Be Certain with Belden

1 1/8" Mini-Receptacle Connectors, Front Mount, IEC Color Code
 RSF 120M | RKF 1201M

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -40°C (-40°F) / +90°C (+194°F)

Mechanical

Insert TPU, yellow
 Contacts CuZn, gold plated
 Receptacle shell Aluminum (anodized, clear)
 Locknut Steel, zinc plated
 O-ring Viton

Electrical

Current rating Pin 9: ground
 10 and 12: 12 A
 All other: 4 A
 Voltage rating 600 V

Receptacles

Part Number	Pins	Gauge	Characteristics
RSF 120M-630/0.3M RKF 1201M-630/0.3M	12	18	  

1 1/8" Mini-Receptacle Connectors, Front Mount, Numeric Color Code

RSF 120M...190M | RKF 1201M...1901M

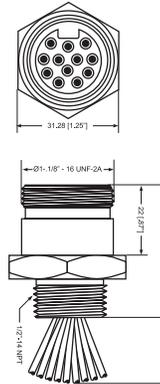


Male, 12- and 19-Pole

Receptacle connector, 1 1/8"-c body, male 12- and 19-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- Numeric Color Code -

RSF 120M...190M



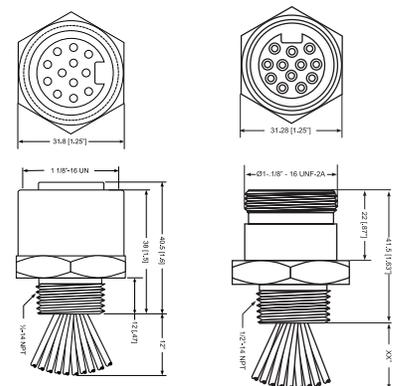
Female, 12- and 19-Pole

Receptacle connector, 1 1/8"-c body, female 12- and 19-pole for front mounting, assembled stranded wire, potted with epoxy, chassis side thread 1/2" NPT, screw connection.

- Internal Threads: RKF 120M-676/1F

- External Threads: RKF 1201M-676/1F

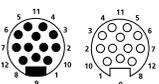
RKF 120M | RKF 1201M...1901M



Pin Assignments

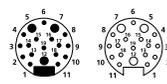
Face Views, 1 1/8"-Male / Female

12 pole



- 1 = black #1
- 2 = black #2
- 3 = black #3
- 4 = black #4
- 5 = black #5
- 6 = black #6
- 7 = black #7
- 8 = black #8
- 9 = green/yellow
- 10 = black #10
- 11 = black #11
- 12 = black #12

19 pole



- 1 = black #1
- 2 = black #2
- 3 = black #3
- 4 = black #4
- 5 = black #5
- 6 = black #6
- 7 = black #7
- 8 = black #8
- 9 = black #9
- 10 = black #10
- 11 = black #11
- 12 = green/yellow
- 13 = black #13
- 14 = black #14
- 15 = black #15
- 16 = black #16
- 17 = black #17
- 18 = black #18
- 19 = black #19



Be Certain with Belden

1 1/8" Mini-Receptacle Connectors, Front Mount, Numeric Color Code
 RSF 120M...190M | RKF 1201M...1901M

Technical Data

Environmental

Degree of protection IP 68 / NEMA 6P
 Operating temperature range -40°C (-40°F) / +90°C (+194°F)

Mechanical

Insert TPU, yellow
 Contacts CuZn, gold plated
 Receptacle shell Aluminum (anodized, clear)
 Locknut Steel, zinc plated
 O-ring Viton

Electrical

Current rating
 12 pole: 9 = ground
 10 and 12: 12 A
 All other: 4 A
 19 pole: 12 = ground
 5 and 7 = 8 A
 All other: 3 A

Voltage rating 300 V

Receptacles

Part Number			Pins	Gauge	Characteristics
Male External Threads	Female External Threads	Female Internal Threads			
RSF 120M-676/1F	RKF 1201M-676/1F	RKF 120M-676/1F	12	18	
RSF 190M-669/1F	RKF 1901M-669/1F	RKF 190M-669/1F	19	18	