

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

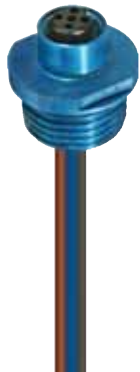
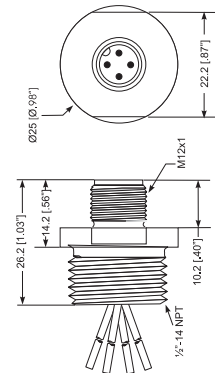
RSF 1/2-14 | RKF 1/2-14



### 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.

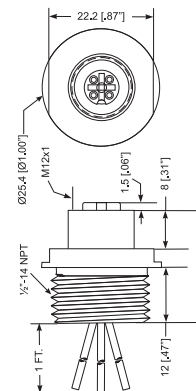
RSF 1/2-14



### 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.

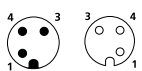
RKF 1/2-14



## Pin Assignments

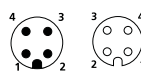
### Face Views / M12, Male / Female

#### 3 pole



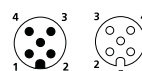
- 1 = brown
- 2 = n.c.
- 3 = blue
- 4 = black

#### 4 pole



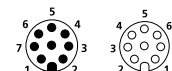
- 1 = brown
- 2 = white
- 3 = blue
- 4 = black

#### 5 pole



- 1 = brown
- 2 = white
- 3 = blue
- 4 = black
- 5 = grey

#### 8 pole



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



Be Certain with Belden

## 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	 

## Part Number Configurations: Micro M12 Receptacles and Inserts

# RKFM 4 / 0.5M

Poles	Panel Mount	Threads	Voltage Rating	Color Code	Female Straight	Male Straight	Male/ Female Panel Feed Through	Female Terminal Block	Male Terminal Block	Lead Length
3	Front	M16 x 1.5	240 V	IEC	RKFM 4-3	RSFM 3				0.5 M
3	Front	M20 x 1.5	240 V	IEC		RSFM 3/20				0.5 M
3	Front	M16 x 1.5 (adjustable nut)	240 V	IEC	RKFPM 3	RSFPM 3				0.5 M
3	Front	1/2"-14 NPT	250 V	IEC	RKF 3-1/2-14	RSF 3-1/2-14				0.5 M
3	Rear	PG9	250 V	IEC	RKF 3-S3103	RSF 3-S3103				0.5 M
3	Front	PG9	250 V	IEC	RKF 4-3	RSF 3				0.5 M
3	Front	M16 x 1.5	240 V	PCB	RKFM 3	RSFM 3				
3	Front	M16 x 1.5	240 V	PCB	PRSFM 3					
3	Rear	M10 x 1	60 V	PCB	RKMHL 3/S 5.5					
4	Front	M16 x 1.5	240 V	IEC	RKFM 4	RSFM 4				0.5 M
4	Front	M20 x 1.5	240 V	IEC		RSFM 4/20				0.5 M
4	Front	M16 x 1.5 (adjustable nut)	240 V	IEC	RKFPM 4	RSFPM 4				0.5 M
4	Front	M16 x 1.5 (stainless steel)	240 V	IEC	PRKFM 4	PRSFM 4				0.5 M
4	Front	1/2"-14 NPT	250 V	IEC	RKF 4-1/2-14	RSF 4-1/2-14				0.5 M
4	Rear	PG9	250 V	IEC	RKF 4-S3103	RSF 4-S3103				0.5 M
4	Front	PG9	250 V	IEC	RKF 4	RSF 4				0.5 M
4	Rear	PG9	240 V	PCB	RKHL 4/S 5.5	RSHL 4/S 5.5				
4	Front	M16 x 1.5	240 V	PCB	RKFM 4	RSFM 4				
4	Front	M16 x 1.5 (stainless steel)	240 V	PCB		PRSFM 4				
4	Rear	M10 x 1	30 V	PCB	RKMHL 4/S 5.5					
4	Insert		240 V	PCB	RSE 4					
4	Insert		240 V	PCB	RSEL 4					
4	Insert		240 V	PCB	RSELP					
4L	Insert		250 V	PCB	RSE 4L					
5	Front	M16 x 1.5	60 V	IEC	RKFM 5	RSFM 5				0.5 M
5	Front	M20 x 1.5	60 V	IEC	RKFM 5/20					0.5 M
5	Front	M16 x 1.5 (adjustable nut)	60 V	IEC	RKFPM 5	RSFPM 5				0.5 M
5	Front	M16 x 1.5 (stainless steel)	60 V	IEC	PRKFM 5	PRSFM 5				0.5 M
5	Front	1/2"-14 NPT	250 V	IEC	RKF 5-1/2-14	RSF 5-1/2-14				0.5 M
5	Rear	PG9	250 V	IEC	RKF 5-S3103	RSF 5-S3103				0.5 M
5	Front	PG9	250 V	IEC	RKF 5	RSF 5				0.5 M
5	Rear		60 V	Panel Feed Through			FWD			
5B	Rear		60 V	Panel Feed Through			FWD5			
5	Rear	PG9	60 V	PCB	RKHL 5/S 5.5	RSHL 5/S 5.5				

Table 6.1: Part Number Configurations for Micro M12 Receptacles

### EXAMPLE: Receptacle

**RKFM 4/0.5M** = Micro M12, receptacle, female, straight, 4-pole, front mount with M16 x 1.5 threads, 240 V voltage rating, IEC color code with 0.5 meter leads. See next page (table 6.2) for additional part number configurations.