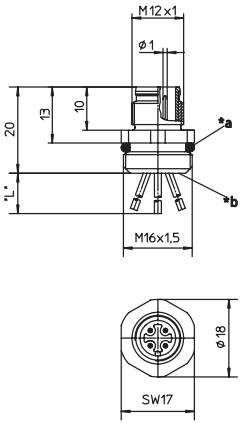
M12-Receptacle Connectors In Accordance With IEC 61076-2-101

RSFM/0.5 M I 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

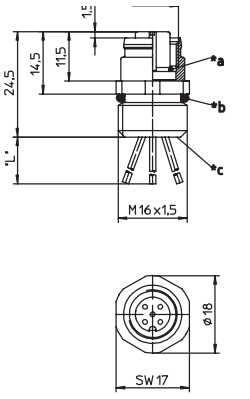


*a O-ring enclosed separately
*b solder contacts potted with epoxy
"L" 0,5 m

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

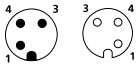


*a O-Ring
*b O-ring enclosed separately
*c solder contacts potted with epoxy

Pin Assignments

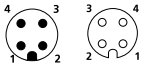
Face Views / M12, Male / Female

3 pole



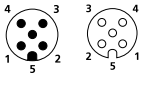
1 = brown
3 = blue
4 = black

4 pole



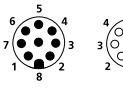
1 = brown
2 = white
3 = blue
4 = black

5 pole

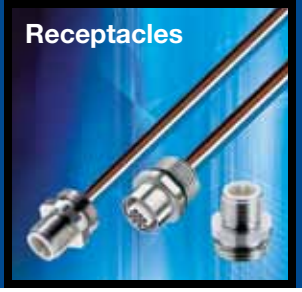


1 = brown
2 = white
3 = blue
4 = black
5 = green/yellow

8 pole



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



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 8 poles TPU
Contact	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	> 10^9 Ω
Pollution degree	3

Part Number		Pins	Leads (mm²)	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	