

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

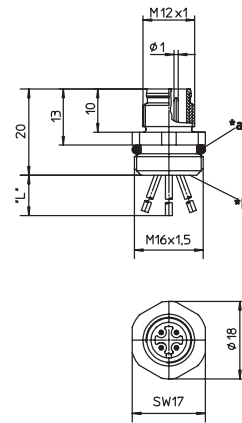
RSFM/0.5 M | RKFM/0.5 M



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

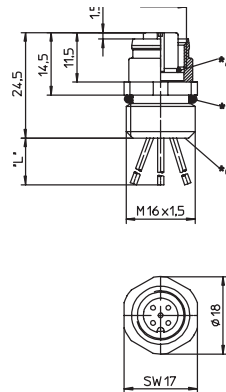
L 0.5 m



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

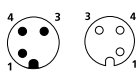
*b O-ring enclosed separately

*c solder contacts potted with epoxy

Pin Assignments

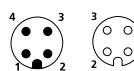
Face Views / M12, Male / Female

3 pole



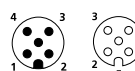
1 = brown
3 = blue
4 = black

4 pole



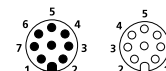
1 = brown
2 = white
3 = blue
4 = black

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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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 $\leq 5 \text{ m}\Omega$
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 | 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 |   |