

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

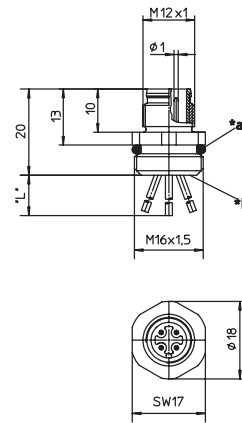
RSFM/0.5 M | RKFM/0.5 M



### 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

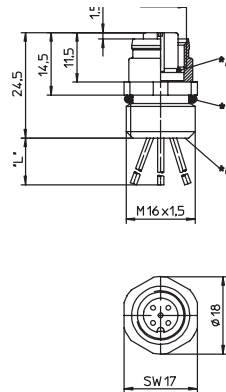
\*L\* 0.5 m



### 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

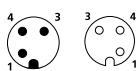
\*b O-ring enclosed separately

\*c solder contacts potted with epoxy

### Pin Assignments

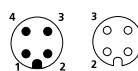
#### Face Views / M12, Male / Female

##### 3 pole



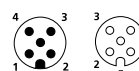
1 = brown  
3 = blue  
4 = black

##### 4 pole



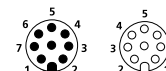
1 = brown  
2 = white  
3 = blue  
4 = black

##### 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



Be Certain with Belden

## 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  $\leq 5 \text{ m}\Omega$   
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 <sup>2</sup> ) | 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                     |   |