

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

### PRSFM/0.5 M | PRKFM/0.5 M

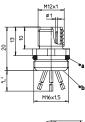


#### Male, 4-, 5- and 8-Pole

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

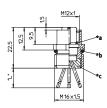


#### Female, 4-, 5- and 8-Pole

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 -

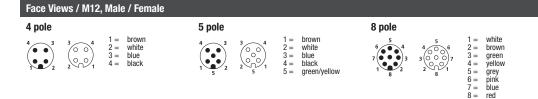
#### PRKFM/0.5 M





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

#### **Pin Assignments**





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

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## **Technical Data**

# Environmental

MechanicalHousing / Molded bodystainless steelInsertPBTContactCuZn, pre-nickeled and 0.8 microns gold-platedO-ringEPDMElectrical $< 5 m\Omega$ Contact resistance $\leq 5 m\Omega$ Nominal current at 40°C4–5 poles 4 A 8 poles 2 ANominal voltage4 poles 240 V 5 poles 60 V 8 poles 30 VRated voltage4 poles 250 V 5 poles 63 V 8 poles 36 VTest voltage4 poles 2.0 kV eff. / 60 s 5–8 poles 1.5 kV eff. / 60 s 1.5 kV eff. / 60 sInsulation resistance> 10 <sup>9</sup> $\Omega$ Pollution degree	Degree of protection Operating temperature range	IP 67 / NEMA 6P -25°C (-13°F) / +70°C (+158°F)	
InsertPBTContactCuZn, pre-nickeled and 0.8 microns gold-platedO-ringEPDMElectricalContact resistance $\leq 5 \text{ m}\Omega$ Nominal current at 40°C4–5 poles 4 A 8 poles 2 ANominal voltage4 poles 240 V 5 poles 60 V 8 poles 30 VRated voltage4 poles 250 V 5 poles 63 V 8 poles 36 VTest voltage4 poles 2.0 kV eff. / 60 s 	Mechanical		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Housing / Molded body	stainless steel	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Insert	PBT	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Contact	CuZn, pre-nickeled and	
$\begin{array}{llllllllllllllllllllllllllllllllllll$		5 1	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	0-ring	EPDM	
Nominal current at 40°C $4-5$ poles 4 ANominal current at 40°C $8$ poles 2 ANominal voltage $4$ poles 240 V $5$ poles 60 V $8$ poles 30 VRated voltage $4$ poles 250 V $5$ poles 63 V $8$ poles 36 VTest voltage $4$ poles 2.0 kV eff. / 60 s $5-8$ poles 1.5 kV eff. / 60 sInsulation resistance $> 10^9 \Omega$	Electrical		
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Contact resistance	$\leq$ 5 m $\Omega$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Nominal current at 40°C	4–5 poles 4 A	
$ \begin{array}{c} \text{5 poles } 60 \text{ V} \\ \text{8 poles } 30 \text{ V} \\ \text{Rated voltage} & 4 \text{ poles } 250 \text{ V} \\ \text{5 poles } 63 \text{ V} \\ \text{8 poles } 36 \text{ V} \\ \text{7 est voltage} & 4 \text{ poles } 2.0 \text{ kV eff. / } 60 \text{ s} \\ \text{5 -8 poles } 1.5 \text{ kV eff. / } 60 \text{ s} \\ \text{1 nsulation resistance} & > 10^9 \Omega \\ \end{array} $		8 poles 2 A	
$\begin{array}{c} 8 \text{ poles } 30 \text{ V} \\ \text{Rated voltage} & 4 \text{ poles } 250 \text{ V} \\ 5 \text{ poles } 63 \text{ V} \\ 8 \text{ poles } 36 \text{ V} \\ \text{Test voltage} & 4 \text{ poles } 2.0 \text{ kV eff. / } 60 \text{ s} \\ 5-8 \text{ poles } 1.5 \text{ kV eff. / } 60 \text{ s} \\ \text{Insulation resistance} & > 10^9 \Omega \end{array}$	Nominal voltage	4 poles 240 V	
Rated voltage4 poles 250 V5 poles 63 V8 poles 36 VTest voltage4 poles 2.0 kV eff. / 60 s5-8 poles 1.5 kV eff. / 60 sInsulation resistance> $10^9 \Omega$		5 poles 60 V	
$ \begin{array}{c} 5 \text{ poles } 63 \text{ V} \\ 8 \text{ poles } 36 \text{ V} \\ \hline \text{Test voltage} & 4 \text{ poles } 2.0 \text{ kV eff. / } 60 \text{ s} \\ 5-8 \text{ poles } 1.5 \text{ kV eff. / } 60 \text{ s} \\ \hline \text{Insulation resistance} & > 10^9 \Omega \end{array} $		8 poles 30 V	
$ \begin{array}{lll} & 8 \ \text{poles 36 V} \\ \text{Test voltage} & 4 \ \text{poles 2.0 kV eff.} \ / \ 60 \ \text{s} \\ & 5-8 \ \text{poles 1.5 kV eff.} \ / \ 60 \ \text{s} \\ & 10^9 \ \Omega \end{array} $	Rated voltage	4 poles 250 V	
Test voltage4 poles 2.0 kV eff. / 60 s $5-8$ poles 1.5 kV eff. / 60 sInsulation resistance $> 10^9 \Omega$		5 poles 63 V	
$\begin{array}{ll} 5-8 \text{ poles } 1.5 \text{ kV eff.} \ / \ 60 \text{ s} \\ > 10^9 \ \Omega \end{array}$		8 poles 36 V	
Insulation resistance $> 10^9 \Omega$	Test voltage	4 poles 2.0 kV eff. / 60 s	
		•	
Pollution degree 3	Insulation resistance		
	Pollution degree	3	

Part Number		Pins	Lead (mm²)	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)	