

**Technical specifications**

Electrical and mechanical properties		
Grid		2 mm
Temperature range		- 55°C to +125°C
Durability	Performance level II	> 250 mating cycles
Insulator material		PBT glass filled, UL 94 V-0
Contact resistance acc. to IEC 512-5		max. 20 mΩ
Contact material	Male	Bronze
	Female	Bronze
Insulation resistance Acc. to IEC 512-5	Contact/Contact	min. 10 <sup>4</sup> MΩ
	Contact/Shielding	min. 10 <sup>4</sup> MΩ
Operational current at ambient temperature	+ 20°C	1.5 A
	+ 70°C	1.0 A
Insertion force per pin	Contact	max. 0.75 N
	Shielding	max. 1 N
Separating force per pin	Contact	min. 0.15 N
	Shielding	min. 0.15 N
Environment/approvals	RoHS compliant / UL (file: E130314)	

Test voltage				
		Fully loaded	Every second position	Chessboard
Rows a, c, e Rows b, d	Within the row	750 V <sub>r.m.s</sub>	1500 V <sub>r.m.s</sub>	–
	Between the rows	1500 V <sub>r.m.s</sub>	1500 V <sub>r.m.s</sub>	–
Rows a, b, c Rows a, b, c, d Rows a, b, c, d, e	Within the row	750 V <sub>r.m.s</sub>	1500 V <sub>r.m.s</sub>	1500 V <sub>r.m.s</sub>
	Between the rows	750 V <sub>r.m.s</sub>	750 V <sub>r.m.s</sub>	1200 V <sub>r.m.s</sub>

Creepage and clearances according to IEC 61076-4-101							
		Fully loaded		Every second position		Chessboard	
		Backplane Male connector	Module Female connector	Backplane Male connector	Module Female connector	Backplane Male connector	Module Female connector
Rows a, c, e Rows b, d	Within the row	0.8 mm	0.6 mm	2.5 mm	2.5 mm	–	–
	Between the rows	2.5 mm	2.5 mm	2.5 mm	2.5 mm	–	–
Rows a, b, c Rows a, b, c, d Rows a, b, c, d, e	Within the row	0.8 mm	0.6 mm	2.5 mm	2.5 mm	2.5 mm	2.5 mm
	Between the rows	0.8 mm	0.6 mm	0.8 mm	0.6 mm	1.2 mm	1.5 mm