

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		Polyester, glass fiber reinforced acc. to UL94V-0
Contact resistance acc. to IEC 512-5		max. 20 mΩ
Contact material	Male	Bronze
	Female	Bronze
Contact surface		Au over PdNi over Ni
Insulation resistance Acc. to IEC 512-5	Contact/Contact	min. 10 ⁴ MΩ
	Contact/Shielding	min. 10 ⁴ 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 _{r.m.s}	1500 V _{r.m.s}	–
	Between the rows	1500 V _{r.m.s}	1500 V _{r.m.s}	–
Rows a, b, c Rows a, b, c, d Rows a, b, c, d, e	Within the row	750 V _{r.m.s}	1500 V _{r.m.s}	1500 V _{r.m.s}
	Between the rows	750 V _{r.m.s}	750 V _{r.m.s}	1200 V _{r.m.s}

Creepages 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