

Technical specifications

Types according to IEC 60603-2		B, B/2, B/3	C, C/2, C/3	D	E	F	G	H		VME 64x	
Inverted type		Q, Q/2	R, R/2, R/3								
Maximum no. of contacts		64/32/20	96/48/30	32	48	48	64	11	15	160	
Contact row designation of male and female connectors		a b	a b c	a c	a c e	z b d	z b d f	b	z d	z a b c d	
										a b c	z d
Operating temperature range		- 55°C to + 125°C						- 65°C to + 125°C		- 55°C to + 125°C	
Creepage (K) and clearance (L) in mm	Within a row	K	1.2 mm	3.0 mm	3.0 mm	8.0 mm	1.2	1.0			
		L	1.2 mm	3.0 mm	1.6 mm	4.5 mm	1.2	1.0			
	Between the rows	K	1.2 mm	3.0 mm	3.0 mm	8.0 mm	1.2	1.2			
		L	1.2 mm	3.0 mm	1.6 mm	4.5 mm	1.2	1.2			
Max. operating current at ambient temperature	I		See derating diagrams								
	+ 20°C		1.5 A	5.6 A			15 A	1.5 A			
	+ 70°C		1.1 A	4.0 A			11 A	1.1 A			
	+ 100°C		0.7 A	2.5 A			8 A	0.7 A			
Test voltage, 50 Hz, 1 minute											
Contact/contact	U _{rms}	1000 V	1550 V	1550 V	3100 V	1000 V					
Contact/Ground	U _{rms}	1550 V	1550 V	2500 V	3100 V	1550 V					
Contact resistance	R	< 20 mΩ	< 15 mΩ			< 8 mΩ	20 mΩ	< 30 mΩ			
Insulation resistance	R	> 10 ⁶ MΩ							10 ⁴ MΩ		
Durability according to DIN EN 60603-2	Performance level I = 500 mating cycles									500 mating cycles	
	Performance level II = 400 mating cycles									250 mating cycles	
	Performance level III = 50 mating cycles									-	
Engaging and separating force for the complete, fully equipped connector	F	64 contacts < 60 N 96 contacts < 90 N									
		32 contacts < 30 N 48 contacts < 45 N	< 40 N	< 60 N	< 75 N	< 100 N	< 80 N	< 90 N	160 N		
		20 contacts < 18 N 30 contacts < 28 N									
Separating force per contact (test measuring device)	F	> 0.15 N			> 0.2 N			> 0.15 N			
Design female contact	Double contact										
Insulator material	PBT glass filled, UL 94 V-0 PC fiber-glass reinforced, not combustible acc. to UL 94 V-1 PA glass filled, UL 94 V-0										
Environment/approvals	RoHS compliant / UL (file: E130314)										

*** Note on press-fit technology:**

Printed circuit boards with flame protection FR-4 or FR-6 are permissible up to a temperature of 115 °C. The press-fit standard IEC 60352-5 only

specifies the press-fit connection up to an working temperature of 85 °C. For working temperatures that exceed 85 °C, it is recommended that the press-fit connection is qualified application-specific by ept.