

Archer Connectors – M50 IDC Specification

❖ 1.27mm pitch cable-to-board connectors, with latching and polarization.

1.27mm (.050") PITCH

❖ Materials

Housings	
PCB Connectors:	LCP, UL94V-0
IDC Cable Connectors:	PBT, UL94V-0
Contacts:	
	Copper Alloy
Finish	
M50-380:	Gold on contact area
Others:	Gold on contact area, Tin on tails

❖ Electrical

Current	
M50-330, 91X:	1A per contact
M50-355, 365:	1.75A per contact
M50-380, 90X:	0.5A per contact
Voltage proof	
M50-90X/91X:	300V DC for 1 minute
Others:	1,000V AC for 1 minute
Contact resistance:	
	30mΩ max
Insulation resistance	
M50-90X, 91X:	5MΩ min
Others:	1,000MΩ min

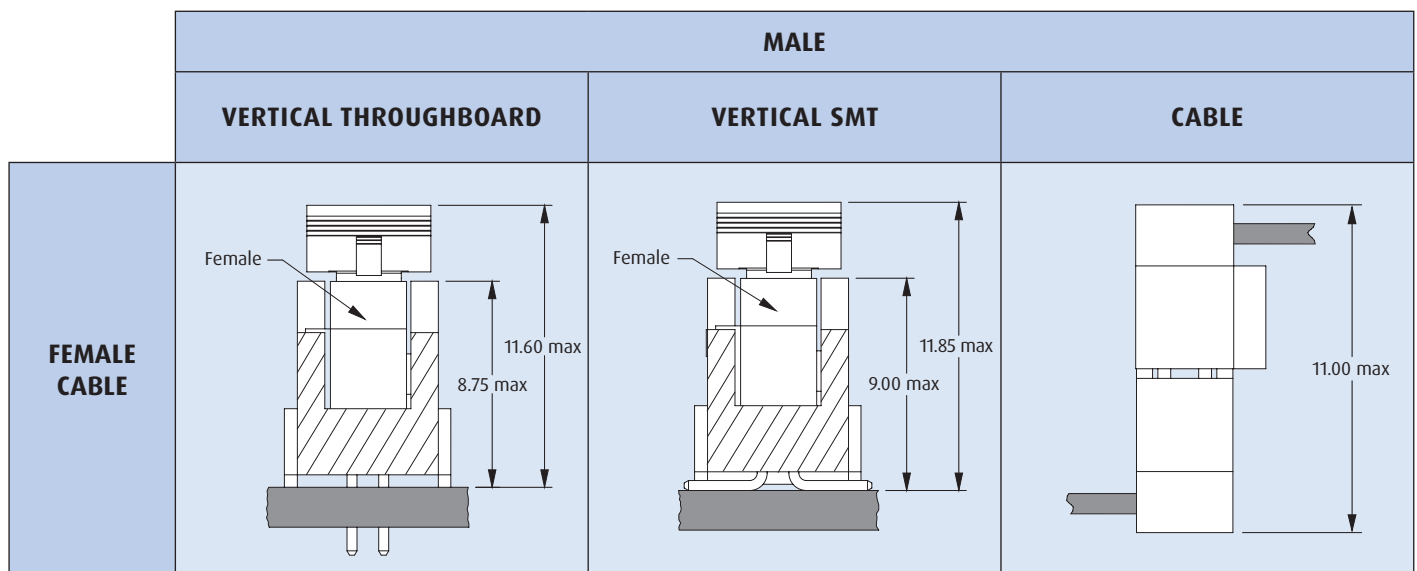
❖ Mechanical

Durability:	100 operations
Insertion force (max):	1.0N per contact
Withdrawal force (min):	0.15N per contact

❖ Environmental

Operating temperature	
PCB Connectors:	-55°C to +125°C
IDC Cable Connectors:	-40°C to +105°C
Cable Assembly:	-20°C to +105°C
Solderability:	
	245°C for 5 seconds
Soldering heat resistance:	
	260°C for 10 seconds

Mating Profiles



All dimensions in mm.