



USB 2.0 TYPE A CONNECTORS MIL-DTL-38999 Series III Type Connectors



USB 2.0 and 3.0 Performance Specifications

USB 2.0 Performance Specifications		USB 3.0 Performance Specifications	
Property	Description	Property	Description
Material and Finish			
Shell/Coupling and Plating	Aluminum, cad/o.d., electroless nickel, nickel PTFE, black zinc nickel	Shell/Coupling and Plating	Aluminum, cad/o.d., electroless nickel, nickel PTFE, black zinc nickel
Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated	Contacts	PC tails, solder cup, and crimp contacts: copper alloy, gold plated
USB Insulator	LCP	USB Insulator	LCP
Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988	Grommet, Peripheral Seal, Interfacial Seal, O-ring	Blended fluorosilicone/silicone elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Shell Sizes	15 Consult factory for other shell size options	Shell Sizes	15 Consult factory for other shell size options
Electrical Specifications			
Data Rate	480 MBps	Data Rate	5.0 GBps
Power Usage	500 milliamps (mA)	Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,	Current Rating	1.5 Amps,
D.W.V.	500 VAC	D.W.V.	500 VAC
I.R.	1000 MegOhms	I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max	Cabling Length	3.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell	Shielding	Continuous through coupler or continuous coupler to shell
Environmental/Mechanical Performance			
Sealing	IP68 mated condition, IP67 unmated condition	Sealing	IP68 mated condition, IP67 unmated condition
Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0	Outgassing	Mod Code 186S meets outgassing requirements per ASTM E 595 and meets NASA level 3 screening for standard reliability Mod Code 928 meets outgassing requirements per UL 94 V-0
Operating Temperature	-40°C to +120°C	Operating Temperature	-40°C to +120°C
Vibration	20g's, 3 Axis, 10 - 2000Hz	Vibration	20g's, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's	Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999 Designator H	Backshell Interface	MIL-DTL-38999 Designator H
Mating System	Triple-start stub ACME	Mating System	Triple-start stub ACME
Mating Cycles	500	Mating Cycles	500