



USB 2.0 AND 3.0 TYPE A CONNECTORS

MIL-DTL-38999 Series III Type Connectors



Performance Specifications

USB 2.0 Performance Specifications

Property	Description
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Material and Finish

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
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
Shell Sizes	15 Consult factory for other shell size options

Electrical Specifications

Data Rate	480 Mbps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	5.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell

Environmental/Mechanical Performance

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
Operating Temperature	-40°C to +120°C
Vibration	20g's, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999 Designator H
Mating System	Triple-start stub ACME
Mating Cycles	500

USB 3.0 Performance Specifications

Property	Description
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Material and Finish

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
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
Shell Sizes	15 Consult factory for other shell size options

Electrical Specifications

Data Rate	5.0 Gbps
Power Usage	500 milliamps (mA)
Current Rating	1.5 Amps,
D.W.V.	500 VAC
I.R.	1000 MegOhms
Cabling Length	3.0 Meters Max
Shielding	Continuous through coupler or continuous coupler to shell

Environmental/Mechanical Performance

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
Operating Temperature	-40°C to +85°C
Vibration	20g's, 3 Axis, 10 - 2000Hz
Mechanical Shock	300 g's
Backshell Interface	MIL-DTL-38999 Designator H
Mating System	Triple-start stub ACME
Mating Cycles	500