

QPL QUALIFIED AND COTS EQUIVALENT MIL-DTL-38999 Series III and IV



Environmental and hermetic material and finish

REFERENCE INFORMATION

Series III and IV Environmental Connector Materials	
Shell, Barrel, and Coupling Nut	Aluminum alloy 6061 or 7075 per ASTM-B221
Front and Rear Insulators	High Grade Rigid Dielectric
Contact Retention Clip	Beryllium copper, heat-treated, unplated
Grommet, Peripheral Seal and Interfacial Seal	Blended elastomer, 30% silicone per ZZ-R-765, 70% fluorosilicone per MIL-R-25988
Pin / Socket Contacts (Environmental)	Copper Alloy / Gold Plate
Adhesives	Silicone and epoxy

Series III and IV Hermetic Connector Materials	
Shell, Barrel, and Coupling Nut	Corrosion resistant steel
Insulators	Fused vitreous glass
Pin Contact	Nickel iron alloy 52/gold plated
Socket Contact	Copper Alloy, Gold Plated IAW ASTM B488, Type 3, Code C
Socket Insulator	High Grade Rigid Dielectric

Series III Environmental Class Connector Finishes				
QPL Finish	COTS Finish	Material	Finish	Specification
F	ME	Aluminum	Electroless Nickel	AMS-C-26074
W	NF	Aluminum	Cadmium Plate Olive Drab over Electroless Nickel	AMS-QQ-P-416, over AMS-C-26074
T	MT	Aluminum	Ni-PTFE (Nickel Fluorocarbon Polymer)	SAE-AMS2454
G	MA	Aluminum	Electroless Nickel	AMS-C-26074

Series IV Environmental Class Connector Finishes				
QPL Finish	COTS Finish	Material	Finish	Specification
F	ME	Aluminum	Electroless Nickel	AMS-C-26074
W	NF	Aluminum	Cadmium Plate Olive Drab over Electroless Nickel	AMS-QQ-P-416, over AMS-C-26074 (500 Hour Salt Spray)

Series III and IV Hermetic Class Connector Finishes				
QPL Finish	COTS Finish	Material	Finish	Specification
Y	Z1	Stainless Steel	Passivate	ASTM A967
N	ZL	Stainless Steel	Electrodeposited Nickel	SAE-AMS-QQ-N-290, Class 2 (500 Hour Salt Spray)