

**MIL-DTL-38999 Series I, II and III
Sav-Con® Connector Saver
Material and Finish Specifications**



TABLE I: MATERIALS AND FINISHES

Shell, Barrel, and Coupling Nut (Environmental)	Aluminum alloy 6061-T6 per ASTM-B 211, 221
Front and Rear Insulators	Glass-filled liquid crystal polymer (LCP) in accordance with MIL-M-24519, Type GLP-30F
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
Socket Contact Hoods	Corrosion Resistant Steel IAW AISI303 Passivate QQ-P-35
Wave Spring (Bayonet Versions)	Stainless Steel 17-7PH, Condition C Passivate QQ-P-35
EMI Ground Springs	Beryllium Copper, Gold Plate MIL-G-45204
Adhesives	Silicone and epoxy
Potting Compound, PCB and Solder Cup Versions	Environmental and Hermetic Connectors: High-strength epoxy, Hysol EE4215. Filter Connectors: Stycast 2850FT/Catalyst 11 thermally conductive epoxy encapsulant.

TABLE II: MASTER SHELL FINISHES

Plating Code	Material	Finish	Specification
ME	Aluminum	Electroless Nickel	AMS-C-26074
B	Aluminum	Cad Plate, Olive Drab	AMS-QQ-P-416, Type II, Class 3
NF	Aluminum	Cadmium Plate Olive Drab over Electroless Nickel	AMS-QQ-P-416, over AMS-C-26074 (1000 Hour Salt Spray)
ZN	Aluminum	Olive Drab Zinc-Nickel	Zinc alloy per ASTM B841-91, Class 1 Type E Grade 3 over Electroless nickel per ASTM B733-90 SC2, Type 1 Class 5
MN	Aluminum	Mega Nickel	Tri-Nickel Alloy
MT	Aluminum	Ni-PTFE 1,000 Hour Grey™ (Nickel Fluorocarbon Polymer)	MIL-DTL-38999L (500 Hour Salt Spray)
TZ	Aluminum	Tin Zinc	Tin-Zinc (SnZn) over electroless nickel over suitable underplate
XM	Composite	Electroless Nickel	AMS-C-26074
XMT	Composite	Ni-PTFE 1,000 Hour Grey™ (Nickel Fluorocarbon Polymer)	MIL-DTL-38999L (2000 Hour Salt Spray)
XW	Composite	Cadmium Olive Drab over Electroless Nickel	AMS-QQ-P-416, over AMS-C-26074 (1000 Hour Salt Spray)
Z1	Stainless Steel	Passivate	AMS-QQ-P-35
ZL	Stainless Steel	Electrodeposited Nickel	SAE-AMS-QQ-N-290, Class 2