

General Information

Materials and Finishes

SERIES 795

Materials and Finishes



The United States Department of Defense (DoD) has issued a directive to minimize or eliminate the use of cadmium and hexavalent cadmium on DoD equipment. The DoD has approved nickel-PTFE and zinc-nickel shell platings as replacements for cadmium plating. European Union Directive 2002/95/EC on Restriction of the use of certain Hazardous Substances (RoHS) states that certain types of equipment (primarily consumer products such as personal computers) shall not contain lead, mercury, cadmium, hexavalent chromium, PBB's or PBDE's. The three standard shell finish options in this catalog comply with RoHS and DoD directives and are free from cadmium and hexavalent chromium.

MATERIALS AND FINISHES

Description	Material	Finish
Shell	Aluminum alloy 6061	See table below
Interfacial seal	Fluorosilicone blend elastomer	None
Grommet	Fluorosilicone blend elastomer	None
O-ring, conductive	Silver-plated alum. filled fluorosilicone	None
EMI spring	Beryllium copper	Nickel
Contact retention clip	Beryllium copper	None
Jackscrew, jackpost	300 series stainless steel	Passivated

STANDARD CONNECTOR SHELL FINISH CODES

Plating Code	Type	Salt Spray Hours	Application Notes
M	Electroless Nickel	48	Standard finish for Series 795 connectors. Approved for space programs. Excellent conductivity. Reflective. RoHS compliant, Cr6-free. ASTM B733 Category SC2
MT	Nickel-PTFE	500	Excellent corrosion resistance and durability. Excellent conductivity. Matte, light grey appearance. Solderable. RoHS compliant, Cr6-free. SAE AMS2454

ADDITIONAL CONNECTOR SHELL FINISH CODES

Plating Code	Type	Salt Spray Hours	Application Notes
ZI	Passivated Stainless Steel	500	
J	Cadmium/gold chromate	500	Not allowed in space applications. Excellent conductivity and corrosion resistance. <u>Not RoHS compliant.</u> SAE AMS-QQ-P-416
NF	Cadmium, olive drab chromate	500	Not allowed in space applications. Excellent conductivity and corrosion resistance. <u>Not RoHS compliant.</u> SAE AMS-QQ-P-416
UC	Zinc Cobalt With Black Chromate	240	
E	Chem Film	168	