General Information and Technical Reference

PowerTrip Shell Material and Finish Options

POWERTRIP STANDARD SHELL MATERIAL / FINISHES						
	Aluminum Shell					Stainless Steel Shell
Property	Nickel	Nickel-PTFE	Tin-Zinc	Olive Drab Cadmium	Black Zinc-Nickel	Passivate
Glenair Code	ME	MT	TZ	NF	ZR	Z1
Corrosion Resistance	Fair	Excellent	Excellent	Excellent	Excellent	Excellent
Temperature Range	-65° to +200°C	-65 to +175 °C	-65 to +175 °C	-65 to +175 °C	-65 to +175 °C	-65 to +200 °C
Salt Spray Hours	96	500	500	500	500	500
Conductivity	Excellent	Excellent	Excellent	Good	Good	Fair
Relative Cost	$$	$$$	$$$	$$	$$$	$$$$
RoHS Compliant[1]	Yes	Yes	Yes	No	Yes	Yes

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.

The following table contains additional material / finish codes. If one of these alternate finishes is preferred over the above standard finishes, substitute the appropriate code in the part number.

OPTIONAL SHELL MATERIAL AND FINISH CODES							
Code	Material	Finish	Finish Specification	Hrs. Salt Spray	Electrical Conductivity	Operating Temp. Range	RoHS Compliance[1]
AB	Marine Bronze	Unplated	AMS4640 alloy	1000	Conductive	-65° to +200°C	✓
C	Aluminum	Anodize, Black	MIL-PRF-8625	48	Non-Conductive	-65 to +175 °C	✓
E	Aluminum	Chem Film, Gold	MIL-DTL-5541	168	Conductive	-65 to +125 °C	
G	Aluminum	Hard Anodize, Natural	MIL-PRF-8625	500	Non-Conductive	-65° to +200°C	✓
JF	Aluminum	Cadmium, Yellow-Gold	AMS-QQ-P-416	500	Conductive	-65 to +175 °C	
Z1	Stainless Steel	Passivate	AMS2700	500	Conductive	-65° to +200°C	✓
Z2	Aluminum	Gold	MIL-DTL-45204	48	Conductive	-65° to +200°C	✓
ZL	Stainless Steel	Electrodeposited Nickel	AMS-QQ-N-290	500	Conductive	-65° to +200°C	✓
ZM	Stainless Steel	Electroless Nickel	AMS-C-26074	500	Conductive	-65° to +200°C	✓
ZMT	Stainless Steel	Nickel-PTFE	AMS2454	1000	Conductive	-65° to +200°C	✓
ZN	Aluminum	Zinc-Nickel, Olive Drab	ASTM B841	500	Conductive	-65 to +175 °C	✓
ZU	Stainless Steel	Cadmium, Black	AMS-QQ-P-416	500	Conductive	-65 to +175 °C	
ZW	Stainless Steel	Cadmium, Olive Drab	AMS-QQ-P-416	500	Conductive	-65 to +175 °C	
ZZR	Stainless Steel	Zinc-Nickel, Black	ASTM B841	500	Conductive	-65 to +175 °C	✓

[1] Does not contain cadmium or hexavalent chromium. Meets EU requirements.

TIN-ZINC PLATING

The United States Department of Defense (DOD) has mandated the elimination of cadmium from DOD weapons systems because of toxicity concerns. The European Union has also restricted the use of cadmium on electronics equipment (RoHS). Tin-Zinc is a RoHS cadmium-free sacrificial finish that offers high conductivity and shielding performance, corrosion resistance, solderability, and proven compatibility with legacy cadmium and zinc-nickel finishes. Tin-Zinc is DLA-qualified and RoHS compliant.