

### About Series 28 HiPer-D Shell Material and Finish Options



HiPer-D connector shells are made of aluminum alloy and are coated to improve corrosion resistance. 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).

Glenair's **1000 Hour Grey™** nickel-PTFE plating (Code **MT**) meets the need for a high-performance cadmium replacement with excellent corrosion resistance, durability and excellent conductivity. In this catalog you will find four standard shell coatings: electroless nickel, yellow chromate over cadmium, nickel-PTFE and black zinc-nickel. The tables below show additional options that are also available on any Series 28 HiPer-D connector.

#### HIPER-D ALUMINUM SHELL PLATING CODES

Shell Plating	Plating Code	Salt Fog (Hours)	Cadmium Free	Hexavalent Chromium Free	Conductivity	Typical Applications
<b>Electroless Nickel</b>	<b>ME</b>	96	Yes	Yes	Excellent	Space vehicles, missiles, avionics, unmanned vehicles, instrumentation.
<b>Nickel-PTFE</b>	<b>MT</b>	500	Yes	Yes	Excellent	Harsh environment, soldier systems, communications equipment. Corresponds to MIL-DTL-24308 Code T.
<b>Zinc-Nickel with Black Chromate</b>	<b>ZR</b>	500	Yes	Yes	Good	Harsh environment, soldier systems. Corresponds to MIL-DTL-24308 Code K.
<b>Cadmium, Olive-Drab</b>	<b>NF</b>	500	No	No	Excellent	Harsh environment, military equipment.
<b>Cadmium with Yellow Chromate</b>	<b>JF</b>	500	No	No	Excellent	General purpose military equipment. Comparable to MIL-DTL-24308 Code F.
<b>Black Anodize</b>	<b>C</b>	336	Yes	Yes	Non-Conductive	Applications where EMI shielding is not required.
<b>Gold</b>	<b>Z2</b>	48	Yes	Yes	Excellent	Space
<b>Chem Film</b>	<b>E</b>	48	Yes	No	Excellent	Avionics

#### HIPER-D STAINLESS STEEL SHELL PLATING CODES

Shell Plating	Plating Code	Salt Fog (Hours)	Cadmium Free	Hexavalent Chromium Free	Conductivity	Typical Applications
<b>Electroless Nickel</b>	<b>ZM</b>	500	Yes	Yes	Excellent	Extreme environments where stainless steel is preferred for strength, corrosion resistance.
<b>Passivated</b>	<b>Z1</b>	500	Yes	Yes	Good	Extreme environments where stainless steel is preferred for strength, corrosion resistance.

Dimensions in inches (millimeters) and are subject to change without notice.