

# Materials & Finishes

HM Series • MIL-DTL-26482 Series 1 Type Connectors

## HM Series Finishes

A connector's finish does more than simply provide good looks. The finish is the first line of defense for a connector. It provides enhanced corrosion resistance and can be made conductive to provide electrical continuity across connector shells for EMI/RFI shielding applications. Olive drab cadmium is the standard finish for the HM Series.

Olive drab cadmium offers excellent corrosion resistance and will match the aesthetic design of most industrial and military applications. In addition to the standard finish, a number of specialty finishes are available for the HM Series, including RoHS finishes for legislative compliance and environmental responsibility. ■

## Standard HM Series Materials & Finishes

Finish Code	Finish	Hermetic Only	Electrically Conductive	Pre-Tinned Solder Cups	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
F	Olive Drab Cadmium		✓	✓		Drab Olive Green	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)
H	Tin Over Nickel	✓		✓		Bright Metal	Carbon Steel	48 hrs	-67° to +392°F (-55° to +200°C)

## Special HM Series Materials & Finishes\*

Finish Code	Finish	Hermetic Only	Electrically Conductive	Pre-Tinned Solder Cups	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
B	Hardcoat Anodize			✓		Grey to Black	Aluminum	336 hrs	-67° to +257°F (-55° to +125°C)
BA					✓				
N	Electroless Nickel		✓	✓		Bright Metal	Aluminum	48 hrs	-67° to +257°F (-55° to +125°C)
NA					✓				
C	Zinc Cobalt			✓		Black	Aluminum	125 hrs	-67° to +257°F (-55° to +125°C)
CA					✓				
CB				✓	✓				
CC				✓	✓				
T	Hard Anodic			✓		Grey	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)
TA					✓				
HA	Passivated	✓	✓		✓	Matte Metal	SST Steel	1,000 hrs	-67° to +392°F (-55° to +200°C)
P	Olive Drab Cadmium With Potting Boot		✓	✓		Drab Olive Green	Aluminum	500 hrs	-67° to +257°F (-55° to +125°C)

\* Please consult an authorized distributor for lead time information and minimum quantity requirements for special order finishes.

## Olive Drab Cadmium—Durable & Economical

Olive drab cadmium (F) plating is the standard finish for HM Series connectors due to its high corrosion resistance. This finish is conductive, making it suitable for shielding or grounding applications, and is resistive to galling. Its olive drab appearance matches most equipment. Olive drab cadmium is suitable for all general duty, industrial, military, and marine applications.

- Finish Specification: SAE-AMS-QQ-P-416 II Class 2
- Appearance: Military Olive Drab Green
- Sheen: Flat, Low Gloss
- Max Temp. Rating: 347°F (175°C)
- Salt Spray Rating: 500 hours
- Lubricity: Good
- Galling Resistance: High
- Conductive: Yes
- RoHS Compliant: No

## RoHS Compliant Parts

Milnec provides a full offering of RoHS compliant finishes in conductive and non-conductive versions to best suit your application requirements.



Please consult the latest European Union general and regional regulations to ensure materials are appropriate for your application and compliance requirements.