

# Materials & Finishes

EV Series • MIL-DTL-83723 Series III Type Connectors

## EV Series Finishes

A connector's finish does more than simply provide good looks. The finish is a connector's first line of defense. 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 and electroless nickel are the standard

finishes for the EV Series. Both finishes offer durability and corrosion resistance and will match the aesthetic design of most applications. In addition to the standard finishes, a number of specialty finishes are available for the EV Series, including RoHS compliant finishes for environmentally friendly designs. ■

## Standard EV Series Materials & Finishes

Finish Code	Finish	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
W	Olive Drab Cadmium	✓		Drab Olive Green	Aluminum	500 hr	-67° to +257°F (-55° to +125°C)
N	Electroless Nickel	✓	✓	Bright Metal	Aluminum	48 hrs	-67° to +392°F (-55° to +200°C)
S	Passivated	✓	✓	Matte Metal	SST Steel	1,000 hrs	-67° to +392°F (-55° to +200°C)
B	Hardcoat Anodize		✓	Grey to Black	Aluminum	336 hrs	-67° to +257°F (-55° to +125°C)

## Special EV Series Materials & Finishes \*

Finish Code	Finish	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
C			✓	Black	Aluminum	125 hrs	-67° to +257°F (-55° to +125°C)
CC	Zinc Cobalt	✓	✓	Black	Aluminum	125 hrs	-67° to +257°F (-55° to +125°C)
T	Hard Anodic		✓	Grey	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.



### Electroless Nickel (Aluminum)

A general use standard finish in the EV Series. This smooth mirror-like finish is durable and impact resistant, with moderate corrosion resistance. Due to its excellent conductivity, electroless nickel is the preferred finish for EMI/RFI shielding applications. It has a recommended operating range of -67° to +257°F (-55° to +125°C).



### Olive Drab Cadmium (Aluminum)

A standard finish in the EV Series of connectors. It is electrically conductive for applications that require EMI/RFI shielding. Olive drab cadmium has excellent resistance to corrosion with a 500 hour salt spray rating. However, the finish is more susceptible to scratches from impact.

## 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.