

# Materials & Finishes

TF Series • MIL-DTL-5015 Crimp Type Connectors

## TF 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 and nickel are the standard finishes for

the TF 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 TF Series, including RoHS compliant finishes for environmentally friendly designs and stainless steel for firewall applications. ■

## Standard TF Series Materials & Finishes

Finish Code	Finish	Electrically Conductive	RoHS Compliant	Appearance	Shell & Insert Material	Salt Spray Rating	Recommended Operating Temperature Range
D	Cadmium over Nickel	✓		Bright Metal	Aluminum, Silicone Elastomer	96 hrs	-85° to +347°F (-65° to +175°C)
L	Nickel Plate	✓	✓	Bright Metal	Aluminum, Fluorosilicone Elastomer	48 hrs	-85° to +347°F (-65° to +175°C)
DS	Black Cadmium	✓		Black	Stainless Steel, Silicone Elastomer	1,000 hrs	-85° to +392°F (-65° to +200°C)
W	Olive Drab Cadmium	✓		Drab Olive Green	Aluminum, Fluorosilicone Elastomer	96 hrs	-85° to +347°F (-65° to +175°C)

## Special TF Series Materials & Finishes\*

Finish Code	Finish	Electrically Conductive	RoHS Compliant	Appearance	Shell Material	Salt Spray Rating	Recommended Operating Temperature Range
K	Electroless Nickel	✓	✓	Bright Metal	Stainless Steel, Fluorosilicone Elastomer	1,000 hrs	-85° to +392°F (-65° to +200°C)
KS ‡	Passivated SST			Gray	Stainless Steel, Fluorosilicone Elastomer	1,000 hrs	-85° to +392°F (-65° to +200°C)
KT ‡	Cadmium over Nickel			Bright Metal	Stainless Steel, Fluorosilicone Elastomer	1,000 hrs	-85° to +392°F (-65° to +200°C)
U	Nickel Plate	✓		Bright Metal	Aluminum, Fluorosilicone Elastomer	96 hrs	-85° to +347°F (-65° to +175°C)

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

‡ Supplied with firewall rated flame resistant inserts designed to protect bulkheads from the passage of a 2,000°F (1,093°C) flame through the connector for a minimum of 20 minutes.



**Cadmium over nickel (Aluminum)**  
A standard finish in the TF Series of connectors. It is electrically conductive for applications that require EMI/RFI shielding. The finish has a 96 hour salt spray rating, making it excellent for corrosion resistance.

### Passivated Stainless Steel (Firewall Rated)

The TF Series offers firewall rated connectors that provide improved temperature capabilities for use in engine compartments or for any other application where the need to prevent emergency fire ingress is necessary. Firewall connectors are machined from passivated stainless steel and feature flame resistant inserts.



## 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.