



SuperFly® Connectors



Materials, Finishes and Cable Jacket/Overbraid

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ABOUT SUPERFLY® MATERIALS AND FINISHES

Four standard material and finish options are available.

- 1 Aluminum shell with **Electroless Nickel** (EN). High reflectivity and poor corrosion resistance make nickel a poor choice for tactical systems, but nickel is preferred for avionics systems, space vehicles, medical equipment and test gear where corrosion is not a primary concern. Nickel is highly conductive and is excellent for EMI-protected systems.
- 2 Aluminum shell with **Black Zinc-Nickel** (Zn-Ni). Although less conductive than other finishes, non-reflective black Zn-Ni is a typical choice for soldier gear. Corrosion resistance is very good.
- 3 Aluminum shell with **Electroless Nickel-PTFE** (EN-PTFE). Excellent durability, corrosion resistance and conductivity. Non-reflective EN-PTFE is a primary choice for any harsh environment. Inherently lubricious, resists galling.
- 4 Aluminum shell with **Olive Drab or Cadmium** (OD over Cad). very good, corrosion resistance and excellent conductivity. Non-reflective OD over Cad is a primary choice for any harsh environment. Inherently lubricious, resists galling.
- 5 Stainless steel shell with **Zinc-Cobalt** (ZN-CO). Excellent durability, corrosion resistance and conductivity. Non-reflective black finish is an excellent choice for any harsh environment.
- 6 Stainless steel, **passivated** finish. Excellent corrosion resistance, good conductivity. A good choice for high corrosion areas where EMI shielding is not a primary concern. Suitable for most aerospace and tactical gear.
- 7 Stainless steel, **Ni-PTFE** finish. Excellent corrosion resistance and excellent conductivity. A good choice for high corrosion areas where EMI shielding is a primary concern. Highly conductive, non-reflective Ni-PTFE finish is suitable for all aerospace and tactical systems.

Material and Finish Comparison Data							
Property	1	2	3	4	5	6	7
Material and Finish	Aluminum Electroless Nickel	Aluminum Black Zinc-Nickel	Aluminum Electroless Nickel-PTFE	Aluminum Olive Drab over Cadmium	Stainless Steel Black Zinc-Cobalt	Stainless Steel Passivated	Stainless Steel Electroless Nickel-PTFE
Glenair Code	M	ZR	MT ¹	NF	ZC	ZK	ZMT
Corrosion Resistance	Poor	Good	Very Good	Very Good	Excellent	Excellent	Excellent
RoHS Compliance ¹	Yes	Yes	Yes	No	No	Yes	Yes
Conductivity	Excellent	Good	Excellent	Excellent	Excellent	Good	Excellent
Reflectivity	Reflective	Non-reflective	Non-reflective	Non-reflective	Non-reflective	Reflective	Non-reflective
Cost	\$	\$\$	\$\$	\$\$	\$\$\$\$	\$\$\$\$	\$\$\$\$

1. Meets DoD directives and European regulations for elimination of cadmium and hexavalent chromate.

ABOUT SUPERFLY® CABLE JACKETS

Standard SuperFly® cable jacket/overbraid include: extruded thermoplastic polyurethane (TPU) and nylon overbraid. TPU offers excellent all-round performance and is typically specified for military gear and oil exploration equipment. Low-toxicity TPU is non-halogenated and flame-retardant. Braided nylon jackets offer outstanding flexibility. For soldier systems applications, braided jackets are an alternative to TPU jackets if weight and flexibility outweigh the drawbacks of braid; e.g.the possibility of snagging the braid or entrapping contamination.

Outer Jacket/Braid Comparison Data		
Property	TPU Jacket	Nylon Braid
Flammability	Flame-Retardent	Flame-Retardent
UL 94V-0	Yes	No
Temperature Range	-45°C to +150°C	-50°C to +150°C
Flexibility	Good	Excellent
Solvent Resistance	Excellent	Good
Abrasion Resistance	Excellent	Very Good
Toxicity	Low Smoke, Zero Halogen	Zero Halogen

Additional jacket and overmold materials are available for custom cordsets. Contact the factory for more information.