



SuperFly® Connectors



Materials, Finishes and Cable Jacket/Overbraid

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.

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

Outer Jacket/Braid Comparison Data

Property	TPU Jacket	Nylon Braid
Flammability	Flame-Retardant	Flame-Retardant
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