



Copper-clad nickel iron conduit

- Hermetically sealed, flexible metal-core conduit for interconnect applications
- Choice of three materials: Brass, Stainless Steel, and Nickel Iron Alloy
- Turnkey, factory-terminated assemblies for landing gear and other rugged aerospace applications
- All materials deliver superior EMC performance as well as crush resistance and environmental sealing

The ultimate in highly flexible, crush-proof EMI/EMP protection:  
Series 75 helically-wound metal-core conduit

<p><b>Part Number 750-190</b></p>	<p><b>Superior EMI protection and crush-proof strength for static applications</b></p> <p>Highly flexible crush-proof metal conduit, available in Nickel-Iron, Brass, or SST.</p>
<p><b>Part Number 750-191</b></p>	<p><b>Adds braided shielding for additional tensile strength applications</b></p> <p>Flexible metal-core conduit tubing with numerous braided shielding options, for additional tensile strength and effective grounding of electromagnetic interference.</p>
<p><b>Part Number 750-192</b></p>	<p><b>Adds a jacket for environmental protection</b></p> <p>Flexible metal-core conduit tubing with braided shielding plus a ruggedized jacket for environmental protection against contaminants and moisture.</p>
<p><b>Part Number 750-193</b></p>	<p><b>Adds a second braided shield for high dB EMI/RFI shielding</b></p> <p>Flexible metal-core conduit tubing with double braided shield for high frequency EMI/RFI shielding requirements.</p>
<p><b>Part Number 750-194</b></p>	<p><b>A jacketed, double-braided configuration for combined environmental and EMI/RFI applications with high dB shielding requirements</b></p> <p>Flexible metal-core conduit tubing with double braided shield and jacket for optimum EMI/RFI protection, strength and environmental sealing.</p>
<p><b>Part Number 750-195</b></p>	<p><b>Triple-braided conduit for predictable and reliable grounding of surface-borne/high frequency electromagnetic interference</b></p> <p>Flexible metal-core conduit tubing with triple braided shield for optimal tensile strength and enhanced high frequency EMI/RFI protection.</p>
<p><b>Part Number 750-196</b></p>	<p><b>Triple-braided and jacketed conduit for maximum EMI shielding in environmental applications</b></p> <p>Flexible metal-core conduit tubing with triple braided shield and jacket for enhanced high-frequency EMI/RFI protection, strength and environmental sealing.</p>

Conduit Material Choices, Material Properties, and Military Specifications			
Glenair Code	Material	Properties	Applicable Military Specifications
B	Brass, Per A-A-52440 Type I, Grade B	Optimal EMI shielding when combined with bronze overbraid. Generally specified with bronze overbraid and jacket.	<ul style="list-style-type: none"> <li>• IAW A-A-52440 (Covering shielded, electrical, flexible, metal conduit for use as protection of wiring in military vehicles from mechanical injury and, when properly installed and grounded, to prevent radiation that may cause interference with radio and other electronic equipment.)</li> </ul>
C	Stainless Steel AISI 316	Specified for high-temperature, corrosion, and crush resistance. Nominal shielding value. Typically braided with stainless steel braid for additional pull strength and durability. Available with or without a jacket.	<ul style="list-style-type: none"> <li>• MIL-C-13909 (Superseded by IAW-A-A-52440 above)</li> <li>• MIL-PRF-24758 (Covering the performance requirements for weatherproof flexible conduit systems for use primarily in exposed areas on U.S. Navy ships, to shield against electromagnetic (EM) radiation from own-ship transmitters and emissions external to the ship, electromagnetic pulse (EMP) events, and to minimize corrosion while being field repairable to reduce maintenance.)</li> </ul>
N	Nickel Iron Alloy Type 4 ANSI/ASTM-A-753	80% Nickel, 20% Iron. Optimal low-frequency shielding material. Typically braided with stainless steel braid for additional pull strength and durability. Available with or without a jacket.	<ul style="list-style-type: none"> <li>• MIL-DTL-28840 (Covering Connectors, Electrical, Circular, Threaded, High Shock, High Density, Shipboard, Metal Conduit, for EMI Shielding)</li> </ul>

EMI/RFI Braided Shielding and Non-Metallic (Fabric) Overbraids		
B	Bronze	Standard for for brass core conduit
T	Tin/Copper	150°C temperature rating, 125 lbs. tensile strength, 96 hr. salt spray corrosion resistance
C	Stainless Steel	Highest tensile strength (225 lbs.), highest temperature—1093°C+
N	Nickel/Copper	200°C temperature rated, 150 lbs. tensile strength, 500 hrs. salt spray corrosion resistance
S	SnCuFe	Tin plated iron/copper
L	ArmorLite™	Microfilament metal-clad ultra lightweight stainless steel braid
D	Dacron	Yarn with excellent abrasion resistance, good chemical resistance, non-conductive
M	Nomex	-55°C to 260°C temperature range - will not melt, excellent chemical resistance, non-conductive
E	AmberStrand® 100%	Expandable, flexible, high-strength conductive metal-clad composite thermoplastic
F	AmberStrand® 75%/25%	75% Expandable, flexible, high-strength conductive metal-clad composite thermoplastic combined with 25% nickel-plated 36AWG copper wire for additional strength

SERIES 75 METAL-CORE HELICALLY-WOUND CONDUIT PRODUCT SELECTION GUIDE

