



## SERIES 74

# High-performance helical convoluted tubing, backshells, fittings and assemblies

### Hat Trick: Compact, Versatile “3-in-1” Design

**G**lenair’s unique and versatile “Hat Trick” conduit system features cleverly designed fittings that provide three key functions—conduit attachment, shield termination and boot attachment—in one easy-to-use compact fitting. These do-it-yourself fittings are equipped with a threaded inner shell, banding porch and shrink boot groove as well as a self-locking coupling nut. Helical Series 74 convoluted tubing threads directly into the shell cavity for easy attachment without restricting the conduit’s inner diameter. Available in composite plastic and aluminum versions. Banding is fast and reliable with Glenair Band-Master™ ATS bands. Add a shrink boot for IP66 environmental sealing.



Easy Assembly  
Hat Trick  
System

Ultra Lightweight  
Composite  
AeroLite  
System



Super Durable  
Internal Braid  
System

- **Lightweight, flexible helical polymer-core materials and easy to install fittings, transitions and adapters**
- **Choice of five materials: ETFE, FEP, PFA, PTFE, and low-smoke, halogen-free PEEK**
- **Choice of turnkey, factory-terminated assemblies or user-installable configurations**
- **All popular part numbers in stock and ready for same-day shipment**

SERIES 74

# High-Performance Helical Conduit Systems

tubing · backshells · fittings · assemblies



Series 74 Helical Convuluted Tubing Material Choices		
E	ETFE Fluoropolymer (Series 74 standard)	Highest tensile strength and lubricity. Combines mechanical toughness with outstanding chemical, dielectric and thermal properties, improved radiation resistance. This is our standard material for a reason: ETFE delivers the best performance and best value in high-performance polymer resins.
F	FEP	Economical with relatively high thermal stability, excellent dielectric properties. Unaffected by virtually all solvents and chemicals, good adhesion resistance.
P	PFA	Outstanding lubricity and resistance to corrosives, -95°F to 500°F temperature rating. Melt-extruded for better cold flow and greater long-term sealing than PTFE; more economical.
T	PTFE	Outstanding resistance to corrosives, -95°F to 500°F temperature rating. Somewhat better folding endurance than PFA. However, this paste-extruded fluoropolymer material is more difficult to process and so costs more than PFA with virtually equal performance.
K	PEEK	Low-smoke, zero-halogen with high strength and superior crush resistance. Lightest weight of all the tubing polymers, but also the highest material cost.

**Part Number  
120-100**



### **Outstanding mechanical wire protection and lubricity for non-environmental and non-EMI/RFI applications**

Helical plastic convoluted tubing, available in a choice of 5 materials. Choose standard black or clear color.

**Part Number  
121-101**



### **Adds EMI/RFI braided shielding for use in non-environmental applications**

Helical plastic convoluted tubing, available in a choice of 5 materials, with a single braided shield for EMI/RFI protection.

**Part Number  
121-102**



### **Adds a second layer of high dB EMI/RFI shielding for use in non-environmental applications**

Helical plastic convoluted tubing, available in a choice of 5 materials, with double braided shield for high frequency shielding applications.

**Part Number  
121-100**



### **A jacketed configuration with one EMI/RFI shield for use in environmental applications**

Helical plastic convoluted tubing, available in a choice of 5 materials, with braided shielding for EMI/RFI protection and a ruggedized jacket for environmental protection.

**Part Number  
121-103**



### **Double-braided and jacketed configuration for environmental and high dB EMI/RFI shielding protection**

Helical plastic convoluted tubing, available in a choice of 5 materials with double shielding and jacket for optimum EMI/RFI protection and environmental sealing.

**Part Number  
123-100**



### **For environmental applications without EMI shielding requirements**

Helical convoluted tubing in choice of 5 materials with a ruggedized jacket for environmental protection.

**Part Number  
121-195**



### **Internal braid configuration for harsh chemical environment applications, with EMI/RFI shielding**

Chemical- and UV-resistant plastic conduit tubing with internal braid for weight savings and harsh-environment EMI/RFI protection.