

# Coil Cord Cable Assemblies



## INTRODUCTION

Carlisle Interconnect Technologies (CarlisleIT) is an expert in designing and manufacturing coil cords for Aerospace and other harsh environment applications where a long operating life is required. CarlisleIT's coil cords provide a combination of strength, flexibility and resistance to harsh chemical environments across a wide operating temperature range.

A wide variety of materials are available to create the ideal coil cord for any application, and we are able to meet your full cable assembly needs by including your specific connector callouts.

## TYPICAL APPLICATIONS

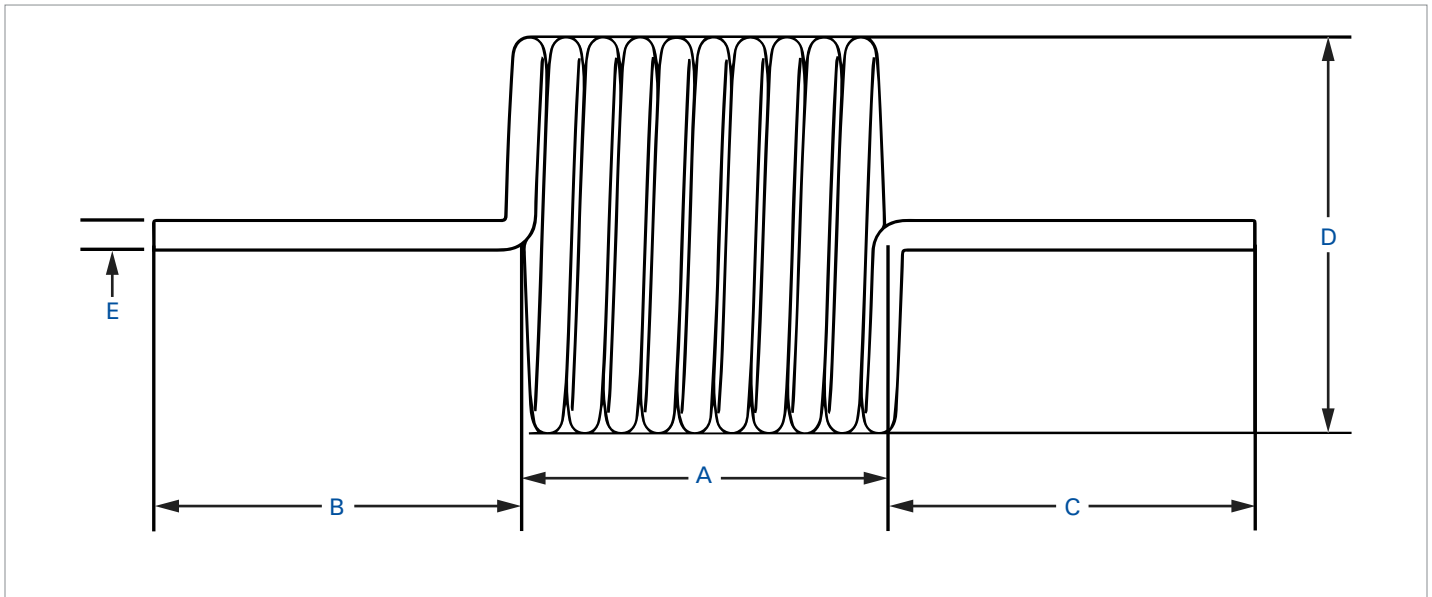
- » Instrumentation Connections
- » Steering Columns and Doors
- » Joystick Controls
- » Keyboard Cables
- » Down Hole Tools
- » Sensor Cables

## SPECIFICATIONS

- » Coil Outer Diameter: Up to 3.0 in (7.6 cm)
- » Coiled Length: Up to 7 ft (2.1 m)
- » Operating Temperature: -55 to 200°C
- » Jacket Material Options: Polyurethane, Hytrel, TPR, Kynar Flex, Seamless™ PTFE Tape/Polyimide, FEP/Polyimide, Polyolefin
- » Internal Wire Options: Standard Hookup Wire (PTFE, FEP, PFA or ETFE), Composite Wire (Polyimide or PTFE), Coax, Data Cables and Custom Combinations of Power, Coax & Data Components
- » Full Point-to-Point Continuity Testing
- » 100% Dimensional Confirmations per Customer Specifications
- » Flex Life Testing

# Coil Cord Worksheet

## Coil Cord Diagram

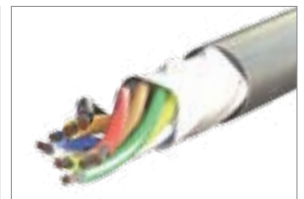


Customer Information		Coil Information		Internal Wire Information	
Date		Coil Selection (A)		Component Wire	Amount
Requested By		Leading Tail Length (B)			
Company Name		Trailing Tail Length (C)			
Volume		Coil OD (D)			
Application		Cable OD (E)			
Special Requirements:		Jacket Material			
		Temperature Rating (-55 to 200 C)			

## Coil Cord Examples



- » 5 twisted component wires, 24 AWG 19x36, PTFE/ Polyimide composite
- » Seamless™ PTFE/Polyimide jacket
- » .145 in (.37 cm) cable diameter
- » 1.0 in (2.54 cm) coil diameter
- » 4.5 in (11.43 cm) coil length



- » 4 twisted pairs, 20 AWG 19x32 and 22 AWG 19x34 with ETFE insulation
- » Hytrel jacket
- » .270 in (.69 cm) cable diameter
- » 1.25 in (3.18 cm) coil diameter
- » 7.0 in (17.8 cm) coil length