

# Flexible Coaxial Cables

**NEED CUSTOMS?**  
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- Ideal for High Performance Video Transmission Applications
- Ultra Flexible Cable for Confined Area and Continuous Motion
- 1 - 8 Individual 50 or 75 Ohm Coax Conductors

Cicoil Flexible Coaxial Cables are ideal for high speed data and video applications that require flexibility, high & low temperature resistance and protection from very rugged environments. These 50 ohm and 75 ohm low capacitance cables feature low line to line skew, maximum signal integrity, low EMI and suppress crosstalk. And the flat cable construction guarantees clear, high speed data transmission, even in the toughest of environments.



**Applications**  
Aerospace Surveillance, Surgical Robotics, Medical Diagnostics, Automated Test Systems

## Cable

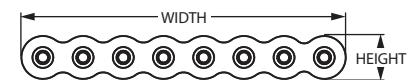
Ohms	Amp Rating <sup>1</sup>	Conductor Gauge	No. of Conductors	Dimensions [inches]		Part Number
				Width	Height	
50	3	30 AWG	1	0.12	0.12	FC50-01
			2	0.25	0.12	FC50-02
			4	0.50	0.12	FC50-04
			8	1.01	0.12	FC50-08
75	3	30 AWG	1	0.18	0.18	FC75-01
			2	0.36	0.18	FC75-02
			4	0.73	0.18	FC75-04
			8	1.47	0.18	FC75-08

### Note

1. Amp rating is the maximum value for each conductor at room temperature of 70°F (21°C). Amp rating decreases as temperature increases.

## Dimensions

### 50 Ohm



### 75 Ohm



## Cable Assemblies



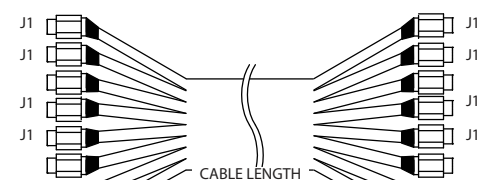
Please contact Cicoil for other connectors and length options.

Cable Length (feet)	Part Number Addition
3	-CA003
6	-CA006
12	-CA012

### Notes

1. Append onto base cable Part Number for complete assembly. Example: FC50-01-CA003
2. Connector ratings may differ from cable ratings; refer to manufacturer specifications.

## Assembly Dimensions



### Connectors

- Signal (J1): SMA Male

## Cable Specifications

All engineering values are nominal and subject to change.

Mechanical	Environmental
<b>Conductors:</b> Ultra flexible, finely stranded, tinned copper	<b>Temperature Rating:</b> -65°C to +165°C
<b>Shielding:</b> Ultra flexible, braided shields, with 90% nominal coverage	<b>Moisture Rating:</b> Submersible, Salt Water Resistant
<b>Minimum Bend Radius:</b> - 6x cable height for intermediate flex - 10x cable height for continuous flex	<b>Clean Room Rating:</b> Class 1, Zero Particulates
<b>Flex Life:</b> 10,000,000 cycles nominal	<b>Extreme Environments:</b> Sunlight, UV Light, Alcohol, Chemical and Oil Resistant
<b>Outer Jacket Durometer Rating:</b> 65 (Shore A)	<b>Electrical</b>
	<b>Outer Jacket Dielectric Strength:</b> 450 volts/mil (17.7 kv/mm)
	See Electrical Rating Chart on Page 47

## Options

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