

## Cable assembly family

### Model C



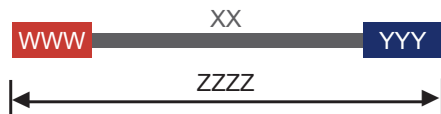
#### Key features

- Cable assemblies specifically designed for use with single axis and triaxial accelerometers, as well as other transducers
- Configurable cable assemblies to meet a wide variety of application needs
- Connectors, cable, and overall length can be specified by the user

The Endevco Model C cable assembly family allows for user selectable cable configurations to meet a wide variety of applications. The family is specifically designed for use with single axis and triaxial accelerometers, as well as other transducers. Users can specify the sensor side connector, cable type, instrumentation side connector, and overall cable assembly length in inches. Part number configuration is listed below. Available connectors and cables are listed on the next page.

#### Cable assembly part number configuration

C - **WWW** - XX - **YYY** - ZZZZ



#### Four steps to creating a cable assembly

- |             |  |
|-------------|--|
| <b>WWW</b>  | 1. Select sensor side connector          |
| <b>XX</b>   | 2. Select cable type                     |
| <b>YYY</b>  | 3. Select instrumentation side connector |
| <b>ZZZZ</b> | 4. Select cable assembly length (inches) |

#### Examples of our most popular assemblies:

- > C-001-AC-002-0120: 10-32, general purpose, Teflon® jacket, BNC, 120 inches (10 ft)
- > C-001-AA-001-0240: 10-32, low noise, Teflon® jacket, 10-32, 240 inches (20 ft)
- > C-003-CA-005-0120: 4 pin connector, 4 conductor, Teflon® jacket, 3 BNC's, 120 inches (10 ft)

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#### Specifications

##### Connectors Specifications



	WWW	YYY	001	002	003	004	005	006
Physical	Connector type		10-32 plug	BNC plug	¼-28, 4 pin plug	3x 10-32 plugs	3x BNC plugs	Pigtail (leads stripped and tinned)
	Weight oz (grams)		0.11 [3.0]	0.36 [10.3]	0.08 [2.3]	0.32 [9.0]	1.09 [30.9]	N/A
	Temp ranges F (C)		-67° to +500° [-55° to +260°]	-67° to +392° [-55° to +200°]	-40° to +392° [-40° to +200°]	-67° to +500° [-55° to +260°]	-67° to +392° [-55° to +200°]	N/A
	Strain relief Type		Silicone molded boot	Silicone molded boot	Viton shrink tubing	3x silicone molded boot	3x silicone molded boot	N/A
	Connector OD inches (mm)		6.8 [0.27]	13.8 [0.54]	7.6 [0.30]	3x 6.8 [0.27]	3x 13.8 [0.54]	N/A

##### Cable Specifications



	XX	AA	AB	AC	AD	CA
Physical	Cable type	Coaxial Low noise Teflon® jacket	Coaxial Low noise Silicone jacket	Coaxial General purpose Teflon® jacket	Coaxial General purpose Silicone jacket	4 conductor General purpose Teflon® jacket
	Min. bend radius inches (mm)	0.850 [21.59]	0.950 [24.13]	0.850 [21.59]	0.850 [21.59]	1.00 [26.67] 4 conductor side
	Conductor Size (AWG)	30	28	30	30	30
	Conductor Material	Silver plated annealed copperweld	Silver plated annealed copperweld	Silver plated annealed copperweld	Silver plated annealed copperweld	Nickel-plated copper
	Conductor Style	Stranded	Solid	Stranded	Stranded	Stranded
	Shield Material	Silver-plated copper	Silver-plated copper	Silver-plated copper	Silver-plated copper	Nickel-plated copper
	Jacket Material	Wrapped Teflon®	Extruded silicone	Extruded Teflon®	Extruded silicone	Extruded Teflon®
	Jacket Color	Red	Red	White	Natural	White
	Weight Grams/Ft	3.1	3.1	2.7	2.7	3.3
	Overall Diameter (max) Inches (mm)	0.090[2.29]	0.097[2.46]	0.085 [2.16]	0.90[2.29]	0.096 [2.44]
Electrical	Capacitance (typical) pF/Ft	35	40	30	30	30pf [1 foot 3x coaxial side] + 35
	Insulation Resistance Min GΩ-Ft	50	100	50	50	50, coaxial side
	Conductor Resistance Ω/ft	0.30	0.2	0.25	0.25	0.2
Environmental	Temp ranges F (C)	-67° to +500° [-55° to +260°]	-67° to +500° [-55° to +260°]	-67° to +500° [-55° to +260°]	-67° to +500° [-55° to +260°]	-40° to +392° [-40° to +200°]
	Noise pC pk-pk	1.5pC max	1.5pC max	N/A	N/A	N/A
	Pull strength lbs, typical (min)	20 (16)	20 (16)	20 (16)	20 (16)	20 (16)

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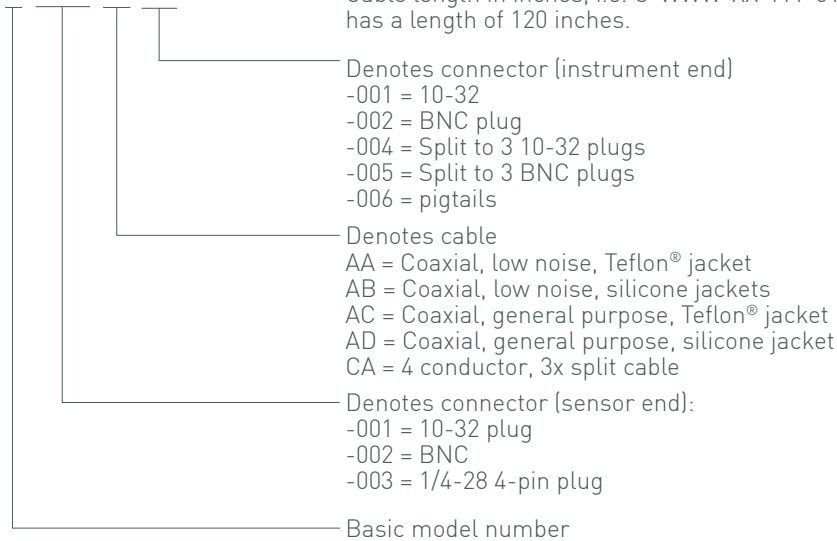
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#### Length tolerances

Length inches (millimeters)	Tolerance inches (millimeters)
Up to 12 (304.8)	+ 1.0 (25.4)
13 to 36 (330.2 to 9.14.4)	+ 2.0 (50.8)
37 to 120 (939.8 to 3.05m)	+ 4.0 (101.6)
Over 120 (3.05m)	+ 4.0 (101.6) per 120 (3.05m) or part thereof [+12 = maximum tolerance]

#### Model number definition

C-**WWW**-**XX**-**YYY**-**ZZZZ** — Cable length in inches, i.e. C-**WWW**-**XX**-**YYY**-0120 has a length of 120 inches.



#### Notes:

1. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 866-ENDEVCO for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.

#### Contact

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