

Cable assembly family

Model C



Key features

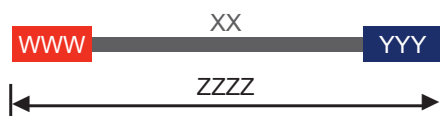
- Cable assemblies specifically designed for use with single axis and triaxial accelerometers, as well as other transducers
- Configurable cable assemblies to meet a wide variety of application needs
- Connectors, cable, and overall length can be specified by the user

The Meggitt 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

- | | |
|-------------|--|
| WWW | 1. Select sensor side connector |
| XX | 2. Select cable type |
| YYY | 3. Select instrumentation side connector |
| ZZZZ | 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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Connectors Specifications



WWW	YYY	001	002	003	004	005	006
Physical Characteristics							
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 +500° (-55° to +260°)	-40° to +392° (-40° to +200°)	-67° to +500° (-55° to +260°)	-67° to +500° (-55° to +260°)	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 Characteristics					
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	Teflon	Silicone	Teflon	Silicone	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 Characteristics					
Capacitance (typical) pF/Ft	35	40	30	30	30pf [1 foot 3x coaxial side] + 35
Insulation Resistance (100 VDC Test), min GΩ	1	1	1	1	1
Environmental Characteristics					
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)



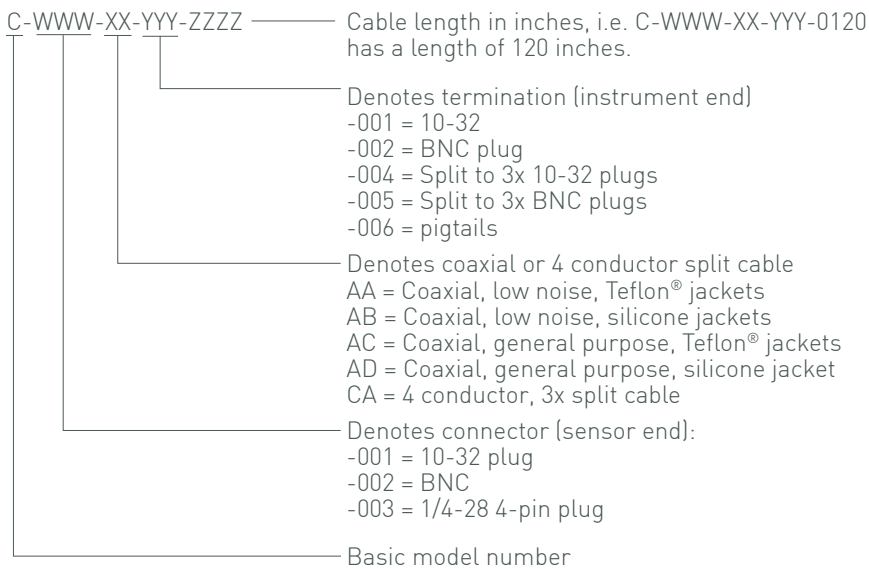
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Length tolerances

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



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