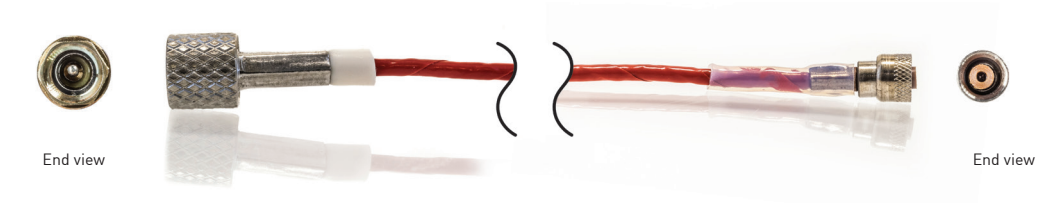
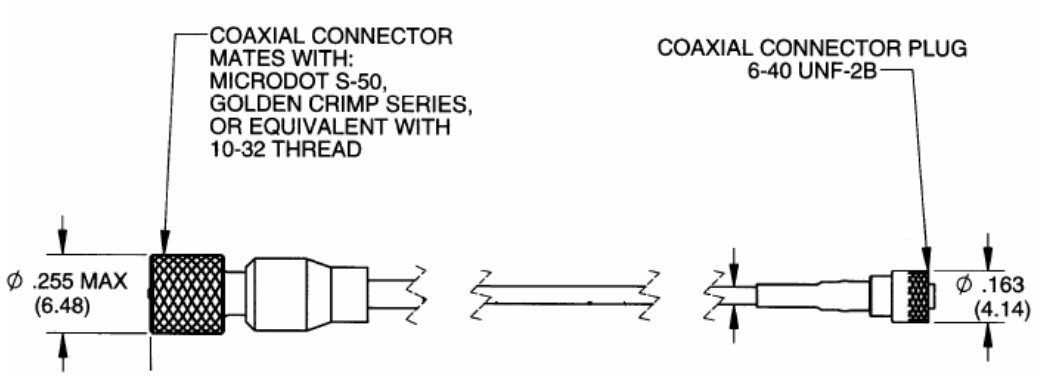
Endevco®

Low-noise replacement cable assembly

Model 3091F





The model 3091F is a low-noise coaxial cable assembly designed for use on accelerometers with a 6-40 male socket. The instrumentation end of the cable is terminated with a male10-32 connector. The raw cable features a TFE jacketed cable with a proprietary low-noise treatment. The cable is 100% tested for triboelectric noise and capacitance. The cable capacitance is provided on a card shipped with the cable. The cable's center conductor is welded to the 10-32 connector's pin to ensure maximum pull-strength and minimum noise. The 10-32 connector incorporates a glass-to-metal dielectric providing a hermetic seal that protects against moisture ingression.

The connectors and cable are manufactured in-house to ensure the highest quality product available and are the only cables of this kind in the industry.

Key features

- Highest reliability
- Critical parameters 100% tested
- Designed for the shock and vibration environment
- Glass-to-metal seal on the 10-32 connector

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Specifications

The following specifications are typical and taken at approximately 75°F (24°C) unless otherwise noted.

	Units	3091F
Connector		
Connector 1 (accelerometer end)		6-40 UNF 2B socket
Dielectric material		SP.1 polyimide resin
Connector housing material		Stainless steel
Strain relief material		TFE Heat shrink tubing
Weight	gms	0.42
Torque	lb-in (Nm)	1.5 (0.17) or finger tight
Connector 2 (instrumentation end)		
Type		10-32 NF-2B plug
Strain relief material		Silicone rubber
Dielectric material		Glass
Connector material		Stainless steel
Weight	gms	1.52
Torque	lb-in (Nm)	Finger tight to 1.5 (0.17)
Cable		
Color (3)		Red
Outer Jacket		TFE Teflon, wrapped and fused
Center conductor	AWG	Solid, 33
Center conductor material		Copper weld
Center conductor Insulation		Noise treated Teflon
Cable type		Coaxial
Diameter inches (mm)	in (mm)	0.060 (1.52)
Shield material		Silver plated copper
Outer jacket material		Fused wrapped red Teflon
Weight, cable only (2)	gms/ft	1.5
Bend radius	in (mm)	0.60 (15)
Raw cable		PN 14065
Environmental		
Minimum temperature	°F (°C)	-100 (-73)
Maximum temperature	°F (°C)	350 (177)
Sinusoidal vibration	g peak	1,000
Shock	g peak	10,000 max
Electrical		
Noise (1)	pC pk - pk	1.5
Capacitance (1)	pF/ft	40 max
Dielectric resistance at 100Vdc, min (1)	GΩ	50, to 500 ft

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Length tolerance tabulation

Length inches (millimeters)	Tolerance inches (millimeters)
Up to 12 (305)	+ 0.5 (13)
13 to 36 (305 to 914)	+2.0 (51)
37 to 120 (939.8 to 3.05 meters)	+4.0 (102)
Over 120 (3.05 meters)	+4 (102) per 120 (3048) or part thereof +12 (305) = maximum tolerance

Notes

1. These parameters are 100% tested.
2. STEP file available upon request
3. Small color variations may occur during normal batch processing, but have no impact on product performance.

Ordering Information:

1. Specify as 3091F-XXX where XXX = length of cable assembly in inches
2. Standard lengths, in inches, are: 24, 36 60,120, 240, 360, 600
3. 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

ENDEVCO
www.endevco.com
Tel: +1 (866) ENDEVCO
[+1 (866) 363-3826]