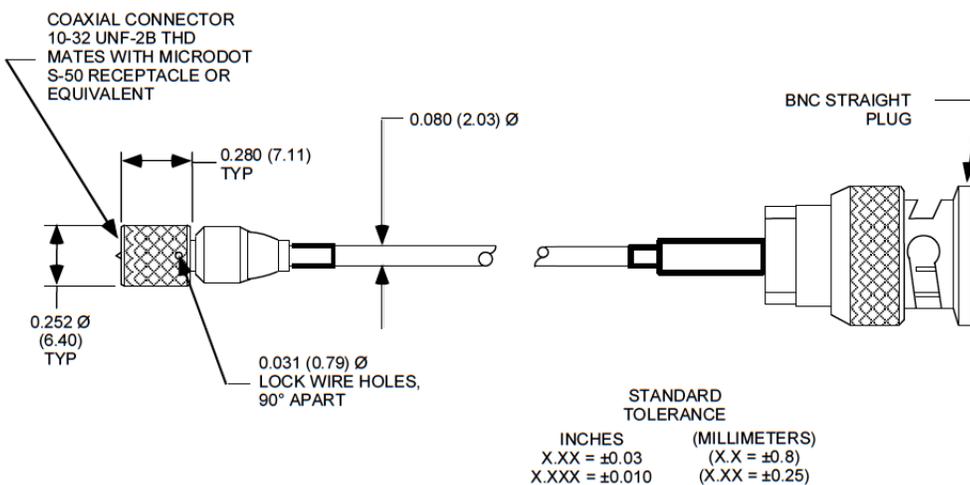
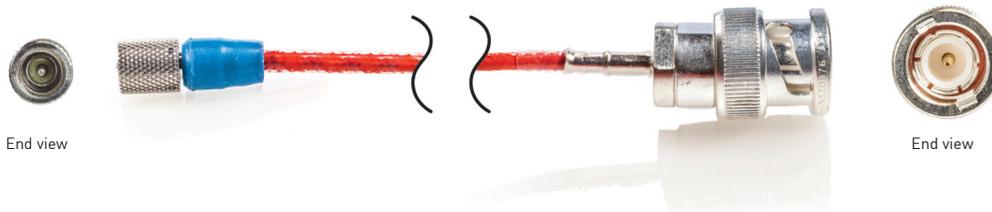


Low noise coaxial cable assembly

Model 3090CM12



Key features

- Critical parameters 100% tested
- 10-32 to BNC cable assembly
- Designed for the shock and vibration environment
- Fused glass, stainless steel housing to center pin

The 3090CM12 coaxial cable assembly is a high reliability cable designed for use with charge-mode piezoelectric accelerometers. The cable enjoys a long history of reliable use spanning from laboratory use to flight-testing.

The raw cable, 10-32 connector and pin assemblies are made in-house to ensure the highest quality product available, making this cable assembly unique to the industry. All cables are 100% tested for noise thus making them "true low-noise" cables. The actual cable capacitance is measured and recorded on the package; an important parameter for long cable runs. The 10-32 connector employs a fused glass dielectric for maximum reliability and moisture protection and its stainless steel connector pin is welded to the cable's center conductor strands for maximum pull-strength and minimum noise. The BNC termination is compatible with most DAQs, and signal conditioners.

Low noise coaxial cable assembly

Model 3090CM12

Specifications

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

Characteristics	Units	3090CM12
Connectors		
Connector 1	in (mm)	10-32 NF 0.250 dia. (6.35)
Dielectric material		Glass
Pin material		304L stainless steel
Connector material		304 stainless steel
Strain relief material		Fluorosilicone rubber
Torque (10-32 connector)	in-lb (Nm)	Finger tight to 1.5 (0.17)
Weight	gms	1.65
Connector 2		BNC, bayonet, straight plug, male
Dielectric		PTFE Teflon
Pin material		Brass, gold plated
Connector material		Brass, silver finish
Cable		
Color (3)		Red
Outer Jacket		PTFE Teflon®, wrapped and fused
Center conductor		Stranded
Conductor material		Silver plated copper
Conductor size	AWG	30
Primary Insulation		Teflon®
Cable type		Coaxial
Diameter	in (mm)	0.08 (2.032)
Shield material		Silver plated copper
Cable weight	gms/ft	3.3
Bend radius	in (mm)	0.850 (21.59)
Raw cable part number		26108
Environmental		
Minimum temperature, cable and 10-32 connector	°F [°C]	-432 [-254]
Maximum temperature, cable and 10-32 connector	°F [°C]	500 [260]
Minimum temperature, BNC plug	°F [°C]	-85 [-65]
Maximum temperature, BNC plug	°F [°C]	320 [165]
Pin pullout (10-32)	lbs (kg)	33 (15)
Cable pull strength	lbs (kg)	>20 (9)
Shock	g peak	10,000
Random vibration	g rms	20.7
Sinusoidal vibration (2)	g peak	1,000
Electrical		
Noise (1)	pC pk-pk	1.5
Capacitance (1)	Pf/ft.	36
Insulation resistance (at 100 Vdc) (1)	GΩ	>50
Bend radius	in (mm)	0.85 (21.6)
Raw cable PN		26108

Low noise coaxial cable assembly

Model 3090CM12

Length tolerance tabulation

Length inches (millimeters)	Tolerance inches (millimeters)
Up to 12 (304.8)	+ 1.0 (25.4)
13 to 36 (330.2 to 914)	+ 2.0 (50.8)
37 to 120 (939.8 to 3.05 meters)	+ 4.0 (101.6)
Over 120 (3.05 meters)	+4 (101.6) per 120 (3.05) or part thereof (+12 (3.05) = maximum tolerance)

Notes

1. These parameters are 100% tested.
2. These parameters applicable to connector 1 only.
3. Small color variations may occur during normal batch processing, but have no impact on product performance.

Ordering Information

1. Specify as 3090CM12-XXX where XXX = in inches
2. Standard lengths, in inches, are: 12, 60, 120, 240, 360 and 600
3. Maintain high levels of precision and accuracy using Endeveco's factory calibration services. Call Endeveco'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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