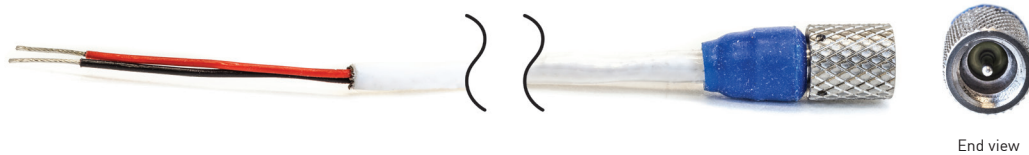


Two conductor twisted pair

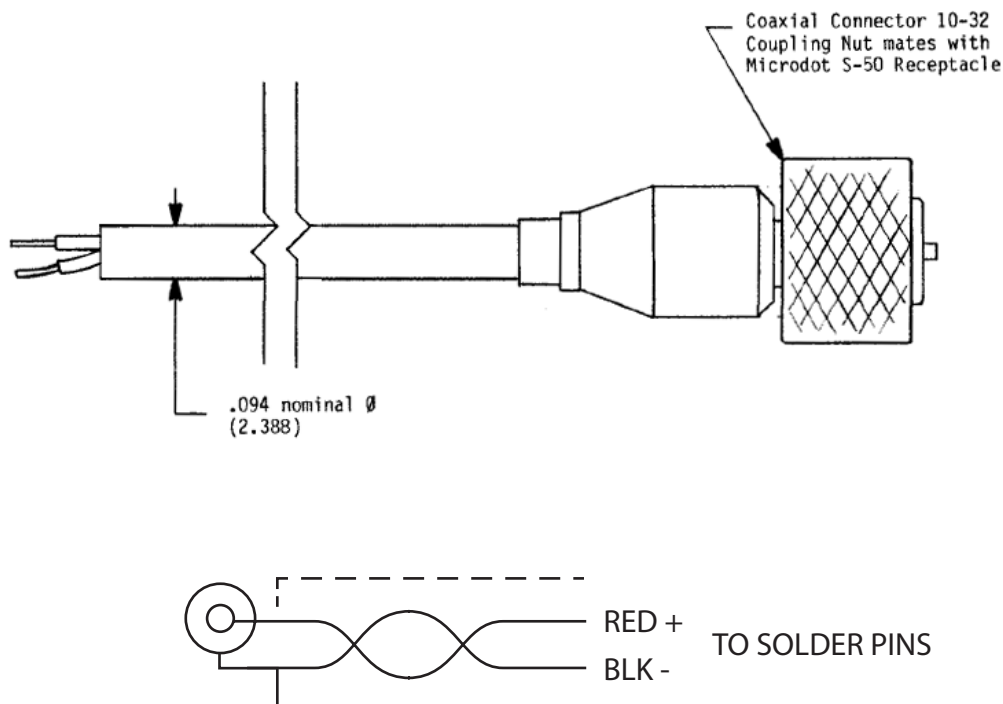
Model 3024M1



End view

Key features

- For use with ISOTRON accelerometers with solder pins
- Minimum mass loading
- Shielded



The 3024M1 cable assembly is designed for use with miniature ISOTRON (IEPE) accelerometers. The assembly has a 10-32 connector on the instrumentation end and the accelerometer end is terminated in pigtails. This may be reversed as appropriate to application. The assembly consists of a twisted pair with an outer shield and an extruded Teflon jacket. The shielding mitigates unwanted noise and RFI while the Teflon jacket protects the cable from moisture.

Two conductor twisted pair

Model 3024M1

Specifications

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

Characteristics	Units	3024M1
Connector		
Connector 1, instrumentation end		10-32 NF
Connector 2, accelerometer end		Pigtails
Dielectric material		Glass
Pin material		304L stainless steel
Connector material		304 stainless steel
Strain relief material		Fluorosilicone rubber boot and Teflon shrink tubing
Torque	in-lb (Nm)	Finger tight to 1.5 [0.169]
Weight	gms/ft	3.5
Lock wire holes		10-32 plug only
Cable		
Color (2)		White
Conductors		1 red and 1 black (1)
Conductor material		Silver plated copper wire
Conductor size	AWG	28
Primary insulation		Extruded TFE Teflon
Cable type		Shielded twisted pair
Diameter	in (mm)	0.094 [2.388]
Shield material		Silver plated copper
Cable weight	gms/ft	3.5
Bend radius	in (mm)	0.75 [19]
Raw cable		PN 26271
Environmental Characteristics		
Minimum temperature	°F (°C)	-300 [-184]
Maximum temperature	°F (°C)	350 [176]
Shock	g peak	10 000, max
Sinusoidal vibration	g peak	1 000 max
Electrical		
Insulation resistance at 100 VDC	m Ω	>100

Two conductor twisted pair

Model 3024M1

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. The red wire connects to the center pin and the black wire and shield is connected to the connector body.
- 2. Small color variations may occur during normal batch processing, but have no impact on product performance.

Ordering information

- 1. Specify 3024M1-XXX where XXX=in inches
- 2. Standard lengths, in inches, are 120,240 and 360
- 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.

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