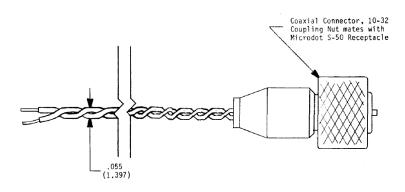


Cable assembly, two conductor twisted pair

Model 3024





STANDARD	TOLERANCE
INCHES	(MILLIMETERS)
$.XX = \pm .03$.XXX = + .010	$(.X = \pm .8)$ $(.XX = \pm .25)$

Key features

- For use with ISOTRON accelerometers with solder pins
- Minimum mass loading
- Designed for high noise and **EMI** environments

Description

The 3024 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. There is no shielding limiting the use to low impedance voltage-mode accelerometers. Because of the twisted pair construction, the assembly is designed for use in high noise EMI environments.



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

Dynamic characteristics	Units	3024	
Connector 1, instrumentation end		10-32 NF	
Dielectric material		Glass	
Pin material		304L stainless steel	
Connector material		304 stainless steel	
Strain relief material		Molded rubber boot	
Torque	in-lb (Nm)	Finger tight to 1.5 (0.169)	
Weight	gms	ger eight to the (error,	
Lock wire holes	3	10-32 plug only	
Connector 2, accelerometer end		Pigtails	
Cable			
Color (2)		Red and black (1)	
Conductors		2X	
Conductor material		Silver plated copper wire	
Conductor size	AWG	28	
Primary insulation		Extruded TFE Teflon	
Cable type		Twisted pair	
Diameter	in (mm)	0.055 (1.397)	
Cable weight	gm/ft	1	
Bend radius	in (mm)	0.75 (19)	
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	МΩ	>100	

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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 is connected to the connector body.
- 2. Small color variations may occur during normal batch processing but will have no impact on product performance.

Ordering information:

- 1. Specify 3024-XXX where XXX=in inches
- 2. Standard lengths, in inches, are 12, 60, 120,240, 360 and 600
- 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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