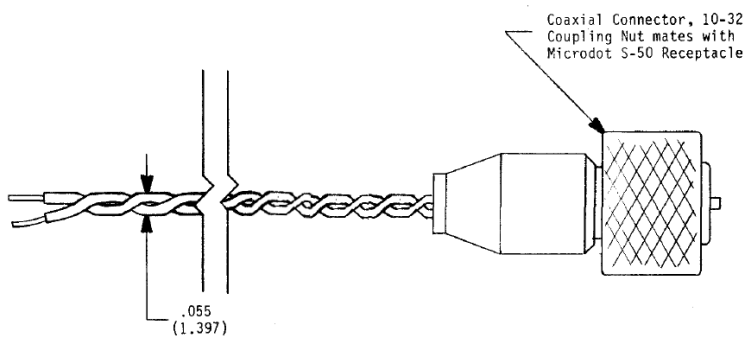
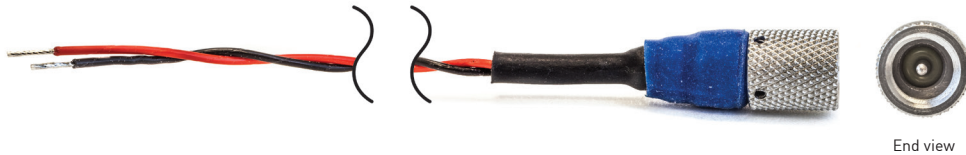


Cable assembly, two conductor twisted pair

Model 3024



STANDARD TOLERANCE	
INCHES	(MILLIMETERS)
.XX = ±.03	(.X = ±.8)
.XXX = ±.010	(.XX = ±.25)

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.

Key features

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

Cable assembly, two conductor twisted pair

Model 3024

Specifications

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

	Units	3024
Characteristics		
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	
Lock wire holes		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	m Ω	>100

Cable assembly, two conductor twisted pair

Model 3024

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=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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