



FEATURES

- Various housings: cylindrical body from diam. 1.27 to 2.36 mm, low profile housing or threads M4x0.7, M5x0.8, 6-32UNC, 10-32UNF
- Available ranges 0-0.35 through 20 bar (0-5 to 300 psi)
- Useful frequency 0-25 KHz through 340 KHz
- CE approved

APPLICATIONS

- Space flight and test
- Automotive tests
- Wind tunnels measurement
- Racing testing

PIEZO SPIRAL WRAPPED COAXIAL CABLE

SPECIFICATIONS

- Coaxial design piezo sensor
- Shielded construction
- Ideal for linear application
- Rugged
- Water resistant
- Piezo film technology

Piezo cable is another form of piezo polymer sensors. Designed as a coaxial cable, the Piezo polymer is the dielectric between the center core and the outer braid. When the cable is compressed or stretched, a charge or voltage is generated which is proportional to the stress.

Piezo cable has a number of advantages in certain applications. Due to its coaxial design, the cable is self-shielded, allowing its use in a high EMI environment. The piezo cable can also be spliced to passive coax, using standard coax splice techniques. It is extremely rugged and will stand up to heavy loads. Its linear format makes it ideal for monitoring large areas.

In the cable construction, two narrow ribbons of PVDF film are helically wound around the inner conductor, which comprises a 20 AWG stranded silver-plated copper wire. The cable is then braided, and jacketed with an extruded high-density polyethylene.

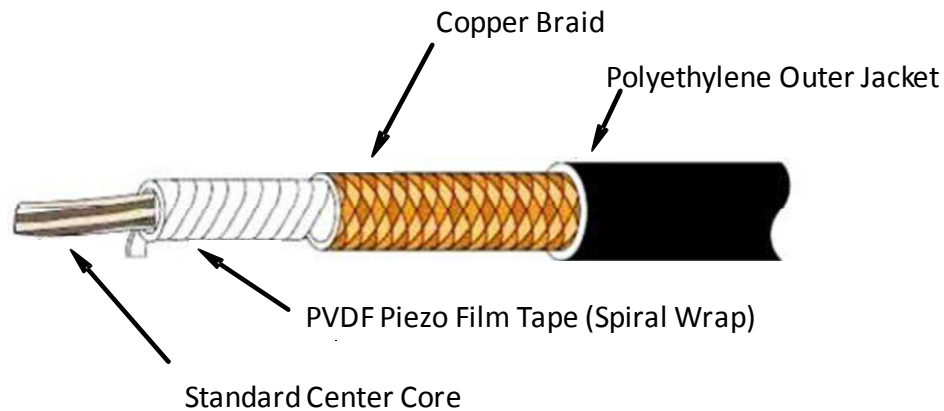
The cable is available in short lengths (in multiples of 1 m), or as long, single cut lengths wound on spools.

PIEZO SPIRAL WRAPPED COAXIAL CABLE

PERFORMANCE SPECIFICATIONS

Properties	Typical Value	Units
Outside Diameter	2.69	mm
Capacitance @ 1 kHz	950	pF/m
Weight	14.5	kg/km
Resistance of shield (DC)	47	Ω/km
Tan Delta (dissipation factor)	0.016	@ 1 kHz (1m)
Hydrostatic Piezo Coefficient (d_{33})	20	pC/N
Resistance of center core (DC)	31	Ω/km

DIMENSIONS IN INCHES (mm)



20 AWG Cable - Spiral Wrap

Description	Dimensions		Capacitance pF/ft (pF/m)	Part Number
	Center Core	Outside Diameter		
20 AWG Piezo Cable (spiral)	0.040 (1.02)	0.105 (2.67)	279 (980)	1005801-1

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