



Model 3003C, 3053V, 3075M19 and 3090DV Low noise, high impedance, differential cable assemblies

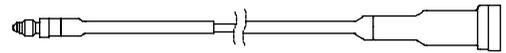
Features

- For use with piezoelectric accelerometers

Description

3003C

The Endevco model 3003C is a sub-miniature coaxial cable assembly designed for use with the Endevco models 22 and 23 accelerometers. It mates with the Endevco 3093 and 3095A series of standard size coaxial cables. A six inch cable, model 3003C, is supplied with each transducer. Longer lengths are available on special order. Instructions for installation are included in the models 22 and 23 instruction manuals.



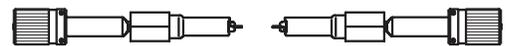
3053V

The Endevco model 3053 is a low noise, Teflon® jacketed, coaxial cable. It features a new, improved backshell, strain relief design and stranded center conductor for increased ruggedness and long term life. It is designed specifically for piezoelectric accelerometers which utilize a M3 threaded connector with high impedance outputs for use in severe environments.



3075M19

The Endevco model 3075M19 cable is designed for use at high temperatures and high humidity. It is hermetically sealed and will operate in severe environments. The 3075M19 has a fiberglass jacket over a Kapton sleeve, which is over the stainless steel outer sheath of the cable to prevent inadvertent grounding. Furthermore, the entire cable assembly is strengthened by surrounding it with a stainless steel armor braid crimped at both ends.



3090DV

The Endevco model 3090DV is a low noise, VersaFlex Teflon® jacketed, coaxial cable with stainless steel, hermetic connectors. It features a new, improved backshell, strain relief design, stranded center conductor for increased ruggedness and long term life and a coupling nut with hex made from an anti-galling bronze material. It is designed specifically for piezoelectric accelerometers with high impedance outputs for use in severe environments.



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Specifications

Dynamic characteristics

		3003C	3053V	3075M19	3090DV
Capacity, nominal	pF/ft.	25 (total)	32	63	32
Resistance, nominal	Ω /ft.	32 (total)	0.5	0.4	0.5

Physical characteristics

Conductor

		3003C	3053V	3075M19	3090DV
Size	AWG	40	33	0.010 \pm .002 in O.D.	30
Material		silver plated dumet	silver plated copper	nickel	silver plated copper
Primary insulation		extruded PFA Teflon [®]	PFA	MgO	Teflon [®]
Shield		304 stainless steel	silver plated copper	N/A	silver plated copper
Jacket		PFA Teflon [®]	Fused wrapped TFE	304LSS	extruded PFA Teflon [®]
Overall diameter	in.	0.019 / 0.024	0.054	0.125 m	0.081
Weight (nominal)	gm	0.3	1.42/ft	90 / 120 in	2.67/ft
Bend radius, min.	in.	0.1	0.5	0.75	0.750

Connector characteristics

Type	3003C	3053V	3075M19	3090DV
	male 1.00 UNM thread female 1-64 UNC-2A	output end: 10-32 thread nut input end: M3 x .05 threaded nut with center pin	mates with S-50 series receptacle or equiv	10-32 NF threaded nut

Environmental characteristics

		3003C	3053V	3075M19	3090DV
Temperature range	$^{\circ}$ F	-100 to +350	-432 to +500	-100 to +725	-432 to +500
Noise		0.4 pC pk-pk	1.5 pC pk-pk	N/A	1.5 pC pk-pk



Continued product improvement necessitates that Endevco reserve the right to modify these specifications without notice. Endevco maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability.

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