



Phase Measured Cable Assemblies

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Two types of phase measured assemblies are available from Andrew:

Delay Lines. These are assemblies cut to a specific electrical length, specified either in nanoseconds or degrees, at a specified frequency. When several are ordered, their physical length can be expected to vary somewhat.

Phase Matched Assemblies. These are assemblies which are matched in electrical length to each other at a specified frequency. When phase matched assemblies are ordered, their minimum acceptable physical length must be specified, as well as an operating frequency. Andrew will supply assemblies matched in electrical length of this physical length and longer.

Phase Measured Cable – Characteristics and Ordering Information

(Larger sizes also available; contact Andrew.)

	1/4" Superflexible FSJ1-50A	3/8" Superflexible FSJ2-50	1/2" Superflexible FSJ4-50B	1/4" LDF LDF1-50	3/8" LDF LDF2-50	1/2" LDF LDF4-50A	7/8" LDF LDF5-50A
For cable/connector technical information see page:	474	480	485	491	493	496	506
Type Numbers							
Phase Stabilized	35422-33	35422-42	35422-24	35422-50	35422-23	35422-25	35422-26
Delay Line Cut to Electrical Length ± 0.1 ns tolerance (36° /GHz)	42394-133	42394-142	42394-124	42394-150	42394-122	42394-114	42394-115
Delay Line, Precision Tolerance \pm deg/GHz (ns)	42394-333 1.906 (0.0053)	42394-342 2.021 (0.0056)	42394-324 2.222 (0.0062)	42394-350 2.56 (0.0072)	42394-322 2.946 (0.0082)	42394-314 3.466 (0.0096)	42394-315 4.627 (0.0129)
Phase Matched ± 0.1 ns (36° /GHz)	42394-33	42394-42	42394-24	42394-50	42394-22	42394-14	42394-15
Precision Phase Matched \pm deg/GHz (ns)	42394-233 1.906 (0.0053)	42394-242 2.021 (0.0056)	42394-224 2.222 (0.0062)	42394-250 2.56 (0.0072)	42394-222 2.946 (0.0082)	42394-214 3.466 (0.0096)	42394-215 4.627 (0.0129)
Characteristics							
Velocity $\pm 2\%$	84	83	81	86	88	88	89
ft/ns (m/ns) $\pm 2\%*$	0.83 (0.25)	0.82 (0.25)	0.8 (0.24)	0.85 (0.26)	0.87 (0.26)	0.87 (0.26)	0.88 (0.27)
Phase/Temp Coefficient over temp. range -22 to +104° F (-30 to +40°C)	-4 to +5 (-7 to +9)	-5 to +5 (-9 to +9)	-1 to +3 (-2 to +6)	-6 to +5 (-10 to +8)	-4 to +3 (-8 to +6)	+4 to +9 (+7 to +16)	+3 to +7 (+5 to +12)
PPM/ °F (PPM/ °C)							

* For delay lines, the approximate length can be determined by multiplying delay in nanoseconds by the ft/ns factor for the appropriate cable type.