

Phase Matching Capabilities

In addition to a full line of custom RF cables, Delaire USA also offers phase matching for most cable types. There are several types of phase matching available. The following are the most common.

- **Phase Matched in Sets (Relative)** - All of the cable assemblies are matched to each other.
- **Phase Matched to an Electrical Length (Absolute)** - As with a mechanical standard, this electrical length in degrees or time is determined by the customer.
- **Phase Matched in Pairs** - Selected from large groups of phase matched assemblies.
- **Phase Matched to a Standard** - All of the cables are matched to a standard. This standard may have been established from a previous lot or provided by the customer.
- **Phased Offset Matching** - One or more cables are provided with a defined phase offset compared to each other.

Typical tolerance for semi-rigid cables is ± 1 degree/GHz and for flexible type cables the tolerance is ± 3 degree/GHz.

We also offer custom semi-rigid delay lines built to customer specifications. Standard tolerances for these are ± 4 ps. Custom tolerances are available.

All cables are fully tested for insertion loss and VSWR before shipment and test data is available on request.

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