



Adjustable FM Fine Matchers



Adjustable Fine Matcher

ERI ROTOTILLER® style antennas are matched at the factory and shipped with an excellent standing wave ratio (SWR) no greater than 1.04:1 on design frequency and 1.5:1 ±2 MHz. off frequency. However, transmission system anomalies or tower appurtenances in the antenna aperture can cause an impedance mismatch resulting in an increased SWR reading. Typical ERI antenna installations have a SWR between 1.02:1 to 1.2:1, even in the worst environments. Field tuning can lower the SWR value to approximate the factory tuning levels.

ERI's Adjustable Fine Tuner is one field tuning method that can be used to correct minor impedance mismatches thus reducing the SWR of the transmission system. This process is easily performed after the antenna is mounted on the tower to compensate for existing system disturbances. Adjustments are accomplished without disconnecting the transmission line from the antenna or disassembling the antenna array. ERI also offers antenna installation, field matching and service by trained ERI technicians.

Features

- Permits adjustment of most standing wave ratios (SWR) to values below 1.02:1
- Invaluable aid to fine match antenna without physical invasion of the antenna array
- Increases transmission line margin of safety

Electrical and Mechanical Specifications

Part Number	Line Size, Inches	Input/Output, Inches	Maximum Match Capacity	Length, Inches (m)		Input Power Rating, kW
CL1035	1-5/8	1-5/8	1.20	72	(1.829)	12
CL3035	4-1/16	3-1/8	1.28	78	(1.981)	39
CL4035	4-1/16	4-1/16	1.28	72	(1.829)	73
CL6035	6-1/8	6-1/8	1.23	72	(1.829)	140