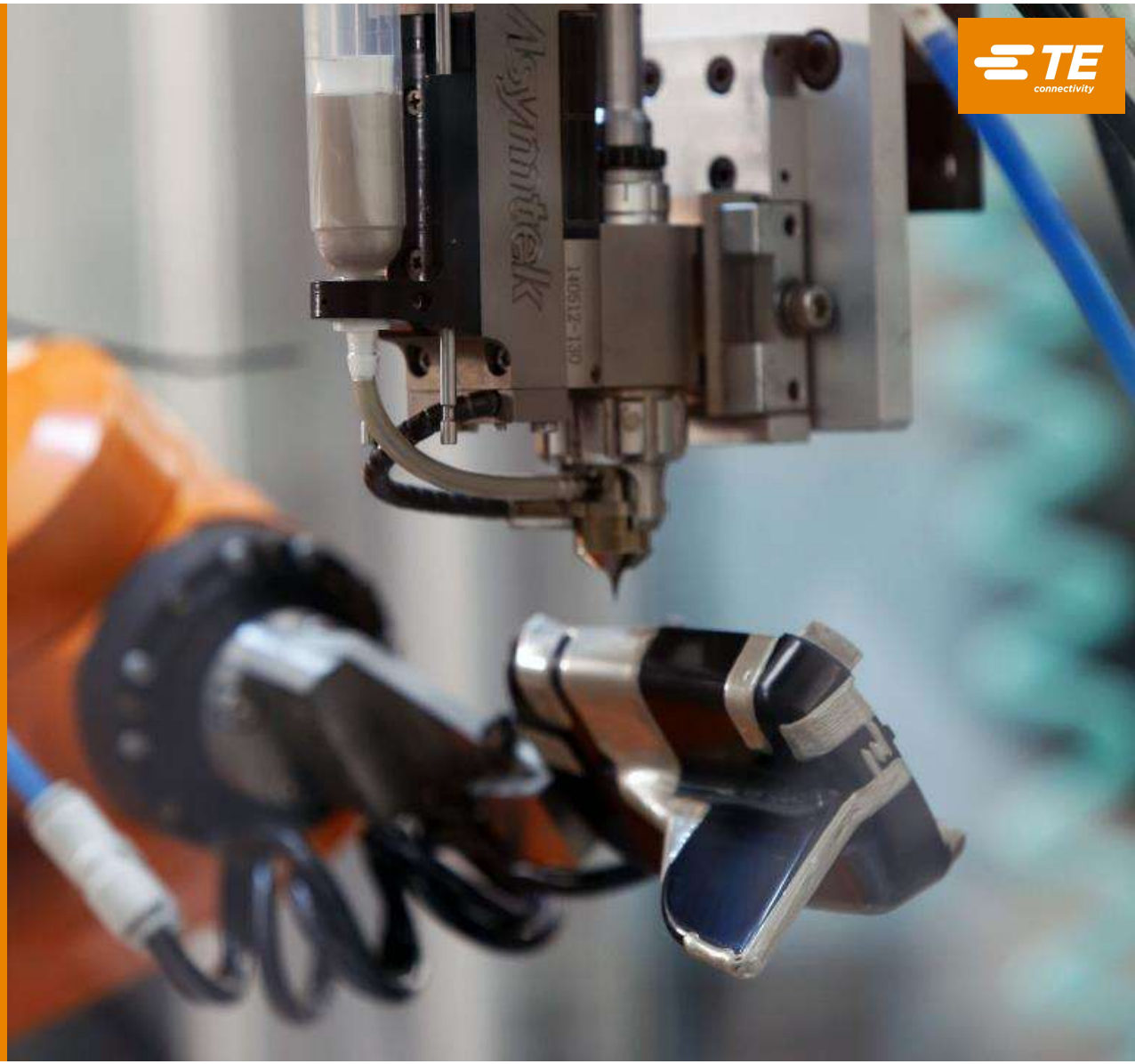
TE Connectivity Mobile Coil Cutting Charts

PULSTAR®

EVERY CONNECTION COUNTS



Antenna Mounting

For ground plane dependent antennas

The center of the vehicle roof is considered the best location for your installation. Satisfactory results may be obtained on other locations such as the fender or trunk deck. When mounting any antenna especially a low band antenna, care should be taken when choosing the mounting location so as to provide an adequate ground plane and free space for the radiator. If the radiator is mounted too close to the metal edge side of the vehicle, a low VSWR may not be achieved. Use the table below as a guide:

Operating Band	Approx. Ground Plane
Low Band	As Large as possible
VHF	Diameter 35'' (89cm)
UHF	Diameter 13''(33cm)
800/900	Diameter 7'' (18cm)

Your antenna is supplied with a whip ready for use at the lowest operating frequency for the model shipped.

You must cut the whip to the proper length in order to operate at other frequencies within the range of the coil.

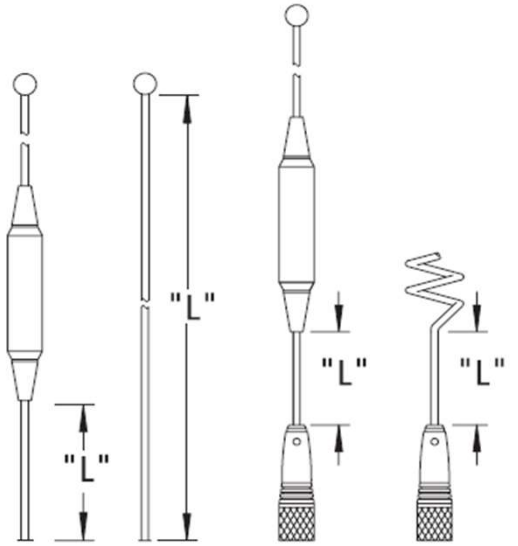
The coil assembly is factory tuned and sealed; no adjustment to the coil is necessary.

Antenna Tuning

The dimensions listed in the chart are for the total length of the whip. It is measured when the antenna whip is removed from the antenna assembly. You will need to remove it from the ferrule or shock spring by loosening the set screws.

- The hardware that secures the radiator are #10 Allen socket set screws. Allen Key that measures 3/32” across the flats is the tool to use.

Its good practice to cut the whip from the bottom a little longer than is indicated on the chart. Do not cut off the end with the ball crimped on to the whip. Trim and adjust to get the best VSWR possible, using a bridge, analyzer or watt meter. Normal VSWR will be 1.5:1 or less, but not more than 2.0:1. You can also make small adjustments in length by reducing the length between the ferrule and enclosed coil models.



Cutting Charts B(B)1442NS

Models:	B1442NS BB1442NS
Freq. (MHz)	Rod Length (Inches)
144	40-3/4”
146	39-1/2”
148	38-1/2”
150	37”
152	36”
154	35”
156	34”
158	33”
160	32”
162	31”
164	30-1/4”
166	29-1/2”
168	29”
170	28-1/2”
172	27-3/4”
174	27”

Cutting Charts – B(B)4505C(S)

Models:	B4505CS BB4505CS
Freq. (MHz)	Rod Length (Inches)
450	12-1/4”
455	11-9/16”
460	11-3/16”
465	10-13/16”
470	10-3/8”

Spring Model

Models:	B4505C BB4505C
Freq. (MHz)	Rod Length (Inches)
450	13-3/8”
455	12-5’8”
460	12-1/8”
465	11-5/8”
470	11-3/8”

Non-Spring Model

Cutting Charts – B(B)4505CN(S)

Models:	B4505CNS BB4505CNS
Freq. (MHz)	Rod Length (Inches)
450	10”
455	9-5/8”
460	9-3/16”
465	8-15/16”
470	8-9/16”

Spring Model

Models:	B4505CN BB4505CN
Freq. (MHz)	Rod Length (Inches)
450	11-1/8”
455	10-13/16”
460	10-3/8”
465	10”
470	9-13/16”

Non-Spring Model