# **OMNI-DIRECTIONAL BROADBAND TRANSIT ANTENNA**

FOR 806-894 MHz & 890-960 MHz (depending on model series).



### INSTALLATION INSTRUCTIONS

- **1.** Choose a mounting surface location that is large enough, and flat enough, for the antenna base footprint, as shown in Fig. 2. This antenna is designed for optimal performance when installed on a minimum 4' x 4' (1.22m x 1.22m) size, flat metal ground plane.
- 2. Using template (Fig.2), drill or punch all holes as shown. Antenna may be attached with either machine screws or selftapping screws (Fig.1). To use machine screws, drill four (4) 7/32" [.56cm] diameter holes. To use self-tapping screws, drill four (4) .136" [.35cm] diameter (#29 drill) holes. Drill one (1) 1-5/16" [3.34 cm] diameter hole.
- 3. Place rubber pad between antenna base and mounting surface (Fig.1). Attach the antenna. Be sure all four screws make good contact with the vehicle body metal to insure a good ground. Recommended assembly torque is 5 in.lbs. [.57N.m].
- 4. Attach cable (if supplied) to the fitting on the bottom of antenna (Fig.1). If cable is not supplied, acquire low-loss cable such as A/S PRO-FLEX<sup>™</sup> PLUS (18-481-1) and A/S right angle N connector (14-1693-1).
- 5. Route cable to radio and attach connector (if supplied) by following proper connector assembly instructions on page 2.
- 6. Connect cable to radio to complete installation. No tuning is required.



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**ASP931** series **ASPG931** series

#### **TNC CRIMP CONNECTOR**



## **TYPE "N" CRIMP CONNECTOR**





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te: Do		
t cut the	OUTER FERRULE	ADAPTER CONNECTOR BODY
ble to a orter		Cut end of cable even. Remove vinyl jacket 3/4". Slide coupling ring and adapter on cable.
igth. ave the	Trim foil back	Fan braid slightly and fold back as shown. For cables with foil, trim back flush to braid.
igth ovided		Position adapter to dimensions shown. Press braid down over body of adapter and trim to 3/8°. Bare 5/8° of conductor. Tin exposed center conductor.
d coil d stow		Screw plug sub-assembly onto adapter. Solder braid to shell through solder hole. Use enough heat to create bond of braid to shell. Solder conductor to contact.
excess.		For final assembly, screw coupling ring onto plug sub-assembly.

PL-259 CONNECTOR



Slide the tapered end of the connecto body over the dielectric and under the braid, until the dielectric butts against the insulator at point E. When contact is undercut captive type, insert cable until it snaps into place. Trim excess braid wire even with the body shoulder at point F. Slide the ferrule over the braid, butting against body shoulder at point G. Verify pin depth and crimp ferrule over braid using proper (.213 hex) crimp tool.

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