

PIC Wire & Cable

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Termination Instructions

T-110576

Approved

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Termination Instructions for PIC 110576 QMA Straight Plug connector

for PIC S44191 / S44193 / S46191, and RG142 / RG400 Coax Cable

Recommended Hand Tools :	X-acto Knife, Sharp Razor, Wire Cutters
Required Cable Tools :	M22520 / 5- 01 Hex Crimp Tool M22520 / 5- 11 Die Set, cavity A (.213" hex)

- 1 Install ATUM 12/3 x 2.0" Lg. Dual Wall Shrink Tube x 2.0" Lg. on cable. Install the crimp ferrule onto the cable. Make Cut A @ .230" from cable end, through the jacket (Fig. 1). Remove the jacket, remove exposed wire braids, foil, and strip braids. Do Not cut into the cable dielectric.
- 2 Make Cut B @ .575" from the cable end, through the jacket only (Fig. 1). Do Not nick or cut into the wire braids.
- 3 Make Cut C @ .150" from the cable end, through the dielectric (Fig 1). Do Not nick or cut into the center conductor. Remove the dielectric. Verify that the exposed exposed center conductor is straight.
- 4 If crimping the Center Contact, install the contact onto the cable center conductor until it is fully seated against the dielectric. Crimp the larger diameter section (Ø .085") of the contact (Fig. 2) using the M22520 / 5 - 01 Crimp Tool, and the M22520 / 5 - 11 die set, using cavity B (.068" hex) .
If soldering, tin the cable center conductor. Tin the center contact, and solder it onto the cable center conductor, seated flush against the cable dielectric. Clean the contact and cable dielectric as needed, using Isopropanol and clean, dry compressed air.
- 5 Slit the jacket lengthwise from Cut B, and remove the jacket. Flare the wire braids away from the cable. Slit the foil lengthwise in three or four places around the cable cable, and flare the foil out to expose the strip braid (disregard for RG142, RG400 cables). Flare out the strip braid away from the dielectric, all the way down to the bottom (@ Cut B).
- 6 Inspect and clean the dielectric as needed, prior to installing the connector body onto the cable. Inspect and clean Connector Body entry as needed.
- 7 Install the connector body over the dielectric and under the flared shields, until the center contact is fully seated. Verify that the center contact is captivated inside the connector.
- 8 Smooth all braids down over the rear of the connector body, covering the knurl. Trim off any excess braids past the knurled rear body, before the shoulder.
- 9 Pull the crimp ferrule up over the braids. Secure the body while positioning the ferrule, to avoid shifting the center contact. Trim any stray braids at the shoulder prior to seating the ferrule against the connector body.
- 10 Verify that the connector is fully seated onto the cable. Crimp the ferrule with the M22520 / 5 -01 hex crimp tool, using the M22520 / 5 - 11 hex crimp die set, cavity A (.213" hex).
- 11 Shrink the ATUM Dual Wall Shrink tube, starting approximately .125" behind the QMA Coupling Nut, covering the rear of the connector body, and onto the cable (Fig 3). Verify after shrinking, that the shrink tubing does not interfere with the full travel of the QMA coupling nut.

Note: Connector Length added to cable = .600" nominal

Dimensions in Inches

Figure 1 NOT TO SCALE

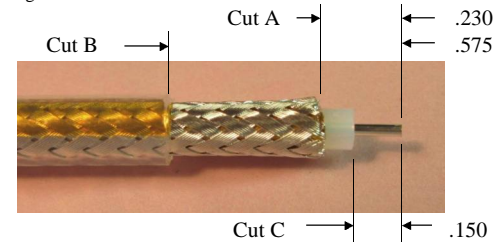


Figure 2

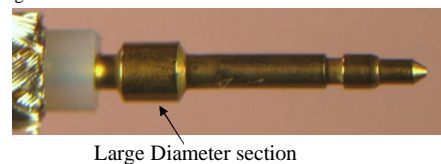
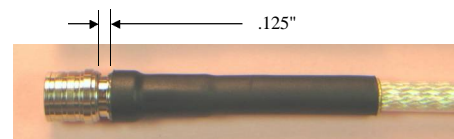


Figure 3



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