PIC Wire & Cable	Termination Instructions	T-1908XX	
A Division of the Angelus Corporation	Approved : mo	Date : 12/03/03	
PH (262) 246-0500 FAX (262) 246-0450 www.picwire.com	<i>m L</i> O	Rev 9 (06/22/17)	
PO Box 330 Sussex, WI 53089	Distribution : USER	Uncontrolled if Printed	

## Termination Instructions for PIC 1908XX Series RF Coaxial Connectors

for PIC \$86208 / \$88207 / \$83204 50 Ohm RF Cables

Note: If using PIC weather-proofing ferrule, crimp w/190818 die set. If using Optional Ferrule, use M22520/5-XX die set. Only PIC ferrule will weatherproof connector w/o ATUM. (Using the ATUM adhesive heat shrink provided (if applicable) will also weather-proof connector and provide strain relief)

		Recom	mended Hand Tools	s : X-acto knife	, Sharp Razor, Cuticle Sci	ssors		
Connector	Connector Type	Contact Crimp Tool - M22520/ 2-01		Ferrule Crimp Tool - M22520/ 5-01 Die Sets				
P/N		Positioner						
		PIC P/N	Daniels P/N	Dial #	PIC Die Set P/N	Hex Size	M22520/5- Die Set P/N	Hex Size
190801	ARINC 600 Size 1 Socket	110201	¥1200	0	PIC 190818	.186/.222	M22520/5-09 (A Hex) or	179
190802	ARINC 600 Mod Size 1 Socket		110201	10201 K1300	8			/5-41 (B Hex)
190803	ARINC Sz 5 Socket	110256	K1447	6				
190805	HN 90° Plug						Ontional Crimp I	Ferrule
190806	C Str Plug	110205					optional erinip i	erruie
190807	C 90° Plug						503	-
190808	TNC Str Plug		K224/K224-1	8				
190809	TNC 90° Plug							
190810	N Str Plug							
190811	N 90° Plug					Figure 1	a	
190812	BNC Str Plug	110202	K1301	8			Crimp Earryla	rightation
190813	BNC 90° Plug	110205	K224/K224-1	8			Westweed@dia	1 and a contraction
190814	SMA Str Plug	110205	K224/K224 1	6			weather seat @ this end	u ⊢ Cable Er
190815	SMA 90° Plug	110203	K224/K224-1	0				4
190819	ARINC 404 Size 1 Socket	110201	K1300	8				
190821	TNC Blkhd Jack	110203	K1302	8	Ī			
190822	N Blkhd Jack	110205	K224/K224-1	8				No Weathersea
190825	SMA Str Jack	111042	K2004	6		Figure 1	b	
190829	ARINC Sz 8 Socket	110257	K1448	6			Crime Ermula	
190837	ARINC Sz 8 Pin	110441	-	8			Crimp Ferrue C	rientation
190838*	M39029 Sz 8 Pin	110369	K1667	8	Ī			┌ Cable I
190839*	M39029 Sz 8 Skt	110407	K1682	8	Ī			
	* P/N's with -01 suffix desig	nates Environ	mental Seal inclua	led	-		6	

 Cut the cable end square. Install Environmental Seal/Heat Shrink (if applicable). Install the selected crimp ferrule over jacket. If using the PIC weatherproofing ferrule, install it on the cable per figure 1a. If using the optional ferrule, install it per figure 1b. Score the jacket at Cut A . DO NOT nick or cut into the braids. Score the jacket at cut B. Complete Cut B by removing the jacket, then trim off all braids.

- Cut through dielectric at Cut C, down to Center Conductor. DO NOT nick or cut into the Center Conductor. Remove the dielectric; use caution to keep the small stranded Center Conductor intact (S86208 and S83204).
- 3) Install Center Contact onto the cable Center Conductor, until the Contact is fully seated against the Dielectric. Solder or crimp the Center Contact to the Center Conductor. See fig 3. Refer to above chart for Positioner and Dial Setting. Inspection hole should show Center Conductor / Solder (if soldered).
- Complete Cut A, through the Jacket. DO NOT nick or cut into the Braids. Slit lengthwise and remove the Jacket.
- 5) Flare out the Braids, less than 45° (*X-acto knife*). For S86208 / S88207 cables, avoid disturbing the wrapped-tape dielectric, while flaring the braids out to expose the dielectric all the way down to the full length of the strip dimension. For S83204 cable only, slit the Foil inner shield lengthwise at two places, approximately 180° apart. Flare out the foil with the wire braids. Clean Dielectric and Center Contact as needed. Dry compressed air may be used if necessary (carefully). Inspect and clean Connector Body as needed.
- 6) Install the Connector Body over the Dielectric and under the shields, until the Center Contact is fully seated. Use care to ensure proper fit of the dielectric into the entry of the connector body. Verify that the Center Contacts are captivated. PIC 190803, 190829, 190838, and 190839 are un-captivated; seat Center Contacts fully.
- 7) Smooth all braids down over the rear of the connector body, covering the knurl. Trim off braids at the end of the knurled section as shown (*Cuticle Scissors*), just short of the O-Ring (braids should not cover O-Ring). See fig. 5.
- 8) Position Crimp Ferrule on the connector body. Secure the body while positioning the ferrule to avoid shifting the Center Contact. Trim any stray braids just short of the O-Ring prior to seating the ferrule against the connector body.
- 9) Verify Center Contact is seated prior to crimping. Crimp the ferrule with M22520/5-01 Crimp Tool and Crimp Die Set as specified in chart above. Note : If crimping the optional crimp ferrule, crimp only the smaller diameter area of the ferrule, not the larger bell area on the front end of the ferrule. See fig. 6. - view of PIC weatherproofing ferrule.
- 10) Apply adhesive Heat Shrink tubing (if applicable) over the ferrule and onto the cable jacket for strain relief and moisture protection.



Hex Grimp

PIC Wire & Cable Termination Instruction sheets are non-controlled documents if printed. Please contact PIC Wire and Cable or visit the PIC website (www.picwire.com) to ensure the latest revision of the instruction is being used.