PIC Wire & Cable					Termination Instructio	ons	T-1501X	ίX
A Division of the Angelus Corporation					Approved : MC		Date: 08/12/15	
Ph (262)-246-0500 Fax (262) 246-0450 www.picwire.com					Distribution (USED		Rev. 1 (10/2//17)	
PO Box 330 Sussex, W1 53089 [Distribution : USER Uncontrolled if Printed]								
Termination Instructions for PIC 1501XX Series Connectors								
(JOF UH44195 UIITAIIght COAX CADIe) Recommended Hand Tools : X-acto Knife, Sharp Pazor, Cuticle Scissors or Wire Cutters, Tweeters, Heat Cup, Soldering Iron (optional)								
		Recommended Hand Tools . A-acto F	time, Sharp Kaz	Req	aired Tooling	mai)		
	Connector P/N	Connector Type	M225	520/1-01 Contact Crimp Tool *	M22520/ 5-01 (Ferrule)	Hex Crir	np Tool	
	150101	ADDIC COO Size 1 Sector	Tool Dial #	Recommended Positioner	Die Set		Hex Size	
	150101	ARINC 600 Size 1 Socket ARINC 600 Mod Size 1 Socket	-					
	150103	ARINC 600 Size 5 Socket	-					
	150106	C Straight Plug	-	M22520/1-09				
	150107	C 90° Plug	-					
	150108	TNC 90° Plug	-					
	150110	N Straight Plug	-	M22520/1-13		0.213"		
	150111	N 90° Plug						
	150112	BNC Straight Plug	8		/5-11, cav. A			
	150113 150113-I	BNC 90° Plug BNC 90° Plug, extended length	-					
	150115-L	SMA Straight Plug	-					
	150115	SMA 90° Plug		M22520/1-09				
	150121	TNC Bulkhead Jack	-					
	150122	N Bulkhead Jack	-					
	150128	ARINC 600 Size 8 Socket	1					
	150129	M39029 Size 8 Socket	-					
				* not required if soldering the center c	ontact			
	Noto · When at ·	ning Aluminum and atom (and	all conductor	as a standard prostias) take	Dimer	nsions in l	nches (Not To Scale)	4
	Note: When strpping Aluminum conductors (and all conductors as a standard practice) take $Figure 1 Cut A .260^{\circ} \rightarrow \leftarrow$							
	Event care to avoid micking or cutuing mito center conductor or brands during cable stripping.							
				T				
1)	Straighten the end $\Delta T UM 12/3$ dual:	Straighten the end of cable, and re-shape the cut end to concentric, to assist in accurate stripping. Install the ATUM 12/3 dual wall shrink tubing and crimp ferrule onto cable (Fig. 1). Make Cut A @ 260" from the structure of				Cut B .830" \longrightarrow Cut C .210" \longleftarrow		
	of the cable, through cable jacket and all cable shields, down to the dielectric (Fig. 1). Avoid cutting into				the Cui B .850			
	dielectric. Remove	e jacket and shields from Cut A (Fig	g. 1).	6	Figure 2			
2)	Malea Cut P @ 93	20" from the and of the apple seen	a the aphle in	akat Use contion Do Not nick or ou	plastic cov	vering (sł	own partially remo	ved)
2)	into aluminum win	e braid shields (Fig. 1). Do not remo	ng the cable jac	leave in place (Fig. 1).				
	into ardininarii wire oraid sinclus (11g. 1). Do not remove jacket yet, leave in place (11g. 1).							
3)	3) Make Cut C @ .210" from the end of the cable, through the dielectric, down to the center conductor							
	(Fig. 1). Do Not n the layer of plastic	overing the silver-plated copper-clad center conductor (Fig. 2): for safe removal.						
it can be scraped off with opposing fingernails, to avoid damage to plating (Fig. 2).								
	Figure 3 crimp or solder contact							
4)	Install center conta	act onto the cable center conductor,	s fully seated on the center	And the		_		
conductor (Fig. 3). Conductor should be visible in inspection hole. Solder or crimp the center contact								-
	onto the center conductor (Fig. 5). Keter to table above for specified tooling, if crimping.							
5) Remove the cable jacket at Cut B. Flare braids slightly (Fig. 4), maintaining braid weave as much as <i>Figure 4</i> flare braid								
feasible. Unwrap helical inner shield all the way down to the bottom (Cut B) without twisting it (Fig. 4),						~		
	tweezers may be used to grip and unwind helical strip. The helical strip can be positioned straight along							
the inside of the flared braids (Fig. 4). The dielectric must be exposed for the full strip length (to Cut B).								-
	disturbing flared sl	hields.	ieali, ury, low-	pressure compressed an, avoid	1			
6)	Inspect and clean of	connector body as needed. Install th	e connector bo	dy over the dielectric and under			K	
the shields until the center contact is fully seated (Fig. 5). Verify that the center contact is captivated.							unwrap) inner shield
7)	Smooth all braids :	and helical strip down over the rear	of the connect	or body covering the knurl.	Figure 5	lav	braids flat	
.,	maintain braid wea	ave as much as possible (Fig. 5). Tri	m off stray bra	ids at the shoulder (Fig. 5).	I igure 5	ing		
		1						
8)	Position crimp ferr	rule over braids, up to connector boo	ly shoulder (Fi	g. 6). Secure the body while	A State			A
	locating ferrule, to avoid shifting the center contact. Trim any stray braids at the shoulder prior to seating the ferrule against the connector body.				- Charles			
	searing the feffule	eating the terrule against the connector body.				1		
9)	Verify center conta	Verify center contact position prior to crimping. Crimp ferrule with M22520/5 - 01 hex crimp tool and				oraids at sl	noulder	
	M22520/5-11 crimp die set, cavity A (.213" hex). Apply secondary crimp (aligned with the first) to achieve a crimp over the full length of the ferrule (Fig. 6).				Figure 6			
						_		4
10)	Shrink the ATUM	Shrink the ATUM dual-wall shrink tubing (Fig 7) over the connector body and cable, start behind						
,	the coupling nut ~	.100" to ensure no interference with	function (Fig. 7).		the two is two is the two is t			
			crimp full length of ferrule					
		crimp full langth of						
		Figure 7	icitute	shrink ATUM				
					o · ·		4	-

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