	PIC Wire & Cable		nation Instructions	T-110725
	A Division of the Angelus Corporation	Approved :	mer	Date : 06/27/13
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	Termination Instructions for PIC Shielded RJ45 (for Ethernet Cables P/N E6A3826 &	0	or P/N 110725	
	Recommended Hand Tools : X-acto Knife, Sharp Razor Required Tooling : PIC 110729 RJ45 Crimp Tool , Heat Gun, Wire Cutters]		
			Dimensions i	n Inches (NOT to Scale)
1)	Install ATUM $8/2 \times .750^{\circ}$ dual wall shrink tube, connector boot, and ATUM $8/2 \times 1.0^{\circ}$ dual wall shrink tube onto cable, in that order (Fig. 1). Make Cut A @ .850° from cable end, through the cable jacket (Fig. 2). Do Not nick or cut into braids. Remove jacket.		Figure 1	
2)	Fold braids back over jacket, and trim off foil (if applicable) and inner tape layer @ Cut A (Fig. Do not nick or cut into the wire insulation; inspect wires to verify insulation integrity.	3).	Figure 2 Cut A →	.850 "
3)	Fold each pair out, and trim off the center spline as short as possible, using caution to avoid nicking or cutting into the wires (Figs. 4a, 4b). Inspect wires to verify insulation integrity.		Figure 3 fold	braids back, remove inner tape
4)	Untwist each pair, for approximately half of the stripped length, carefully straighten each wire. Align wires into desired wire configuration per work print, and install wires into the load bar (Fig. 5). If necessary, wire ends can be cut slightly shorter (up to .050") to aid entry into load ba Use installed load bar to comb or work the wires into shape, until thoroughly straight (for appro imately .500" length) while maintaining pairs' twist approximately .250" from Cut A (Fig. 5).		Figure 4a	Figure 4a
5)	Position the load bar front edge at .675" from Cut A (Fig 6). Trim off wire ends at Cut B, flush with the end of the load bar @ .675" from Cut A (Fig. 6).			
6)	Bend the RJ45 connector strain relief tab down to allow wires / load bar installation (Fig. 7a). With the load bar positioned at the end of the wires, install the connector body onto the wires / load bar. Seat all wires fully into the connector, until the stranded conductors of each wire are visible through the front end of the connector body (Fig. 7b).		flare out pa Figure 5 straighten wires ~ .500" –	urs, trim off spline
7)	Return the strain relief tab up into original position. Verify all wires are fully seated per 110725 Inspection Criteria (Fig. 11) before crimping. Crimp the connector using 110729 RJ45 crimp tool, keeping wires fully seated. Trim off excess braids past strain relief tab (Fig. 8).		maintain twist ~ .250" >	
8)	Locate the ATUM $8/2 \times 1.0$ " shrink tube up to the back end of the RJ45 connector, to cover the crimped strain relief tab and braids, shrink onto connector & cable (Fig. 9), while taking care to shield the RJ45 latching tab from excessive heat.		Figure 6 Cut B ←	— .675" →
9)	Position the boot onto the connector until fully seated (Fig. 10). Take care to locate the RJ45 latching tab inside boot. Position the ATUM $8/2 \times .750$ " up to, and over the back end of the boot, and shrink onto the boot & cable.		Figure 7a	Figure 7b
10)	Verify all wires are fully seated per 110725 Inspection Criteria (Fig. 11).			References in the second secon
	110725 Inspection Criteria		strain relief tab	wires fully seated
			Figure 8	crimp RJ45
	all wires fully seated		Figure 9	
	RJ45 Wiring Configuration for 568A or 568B Pin 568A Configuration 568B Configuration 1 White / Green White / Orange 2 Green Orange			
	3 White / Orange White / Green 4 Blue S White / Blue S White / Blue S White / Blue Green 7 White / Brown White / Brown		shrink ATUM 8/2	× .750"

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