

CommScope Infrastructure Academy offers installation training.

## EASIAx PLUS® Cable Prep Tools

For AVA5, AVA6, AVA7, FSJ4, LDF1, LDF2, LDF4 and LDF4.5 Style Cables

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### Product Description

These EASIAx PLUS® Cable Prep Tools are designed to attach to a drill and quickly cut the cable jacket, outer conductor, and foam in one operation. Cutting is complete when spring-loaded ball bearings of the tool roll into a corrugation valley of the outer conductor.

The tool cuts the cable jacket, outer conductor, and foam, and tapers the inner conductor in one operation. The uniform cut across the corrugations and tapering of the inner conductor ensures accurate and easy fitting of the connector.

The four cutting blades provide approximately 150 cuts and can be interchanged between slots to provide even more cuts. They are easily replaced using the socket wrench provided.

Use either a 3/8" or 1/2" cordless drill, 14.4 Vdc minimum. The recommended operating speed is 0 to 400 rpm.

EASIAx PLUS® Number	Replacement Blade Number	Heliax® Cable
CPT-L4ARC1	CPT-BKS1	LDF4-50A
CPT-L1	CPT-BKS1	LDF1-50
CPT-L2	CPT-BKS1	LDF2-50
CPT-L45RC	CPT-BKS1	LDF4.5-50A
CPT-F4B	CPT-BKSF4	FSJ4-50B
CPT-L4-D	CPT-BK12U	LDF4-50A
CPT-F4-D	CPT-BKSF4	FSJ4-50B
MCT-A5-D		AVA5-50
CPT-78U	CPT-BK5	AVA5-50
CPT-114U	CPT-BK6	AVA6-50
CPT-158U	CPT-BK7	AVA7-50

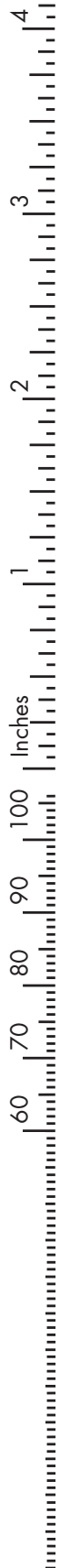
**NOTICE:** The installation, maintenance, and removal of antenna systems requires qualified, experienced personnel. CommScope installation instructions are written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment. CommScope disclaims any liability or responsibility for the results of improper or unsafe installation practices.

These tools may be used to prepare cable for the following connectors:

CPT-L1	CPT-L2	CPT-L4ARC1	CPT-L45RC	CPT-L4-D	CPT-F4-D	MCPT-A5-D	CPT-F4B	CPT-78U	CPT-114U	CPT-158U
L1TNF-PL	E2PDM-C	L4TDM-PSA	L4.5PNM-RC	L4HM-D	F4HM-D	A5DF-D	F4NMV2	AL5DM-PSA	AL6DM-PSA	AL7DM-PSA
L1TNM-PL	E2PDF-C	L4TDF-PSA	L4.5PNF-RC			A5DM-D	F4PNMV2	AL5DF-PSA	AL6DF-PSA	AL7DF-PSA
L1TNM-PL-G	L2PDM-C	L4TNM-PSA	L4.5PDM-RC			A5NF-S	F4NMV2-C	AL5NM-PSA	AL6NM-PSA	AL7NM-PSA
	L2PDF-C	L4TNF-PSA	L4.5PDF-RC			A5NM-S	F4PNMV2-C	AL5NF-PSA	AL6NF-PSA	AL5NF-PSA
							F4NMV2-C			
							F4PNMV2-H			
							F4NMV2-H			
							F4PNMV2-HC			
							F4PDMV2			
							F4PDMV2-C			


**WARNING**

Eye protection is required when using the Cable Preparation Tool. Beware of flying debris.

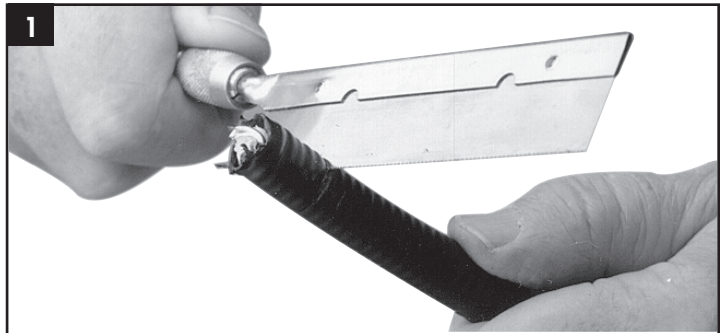


## General Tips

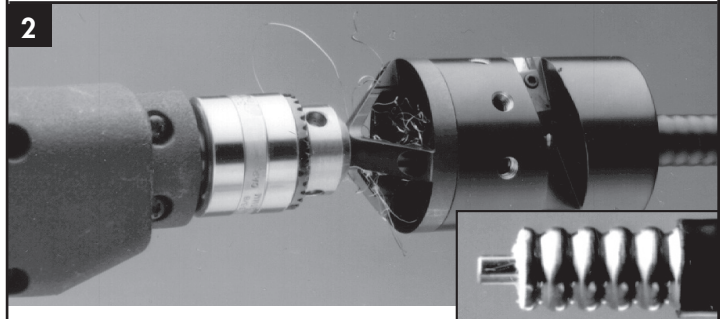
- Straighten cable end:  
For 1/4" through 5/8" sizes, 6 inches (150 mm), minimum.  
For 7/8" through 1-5/8" sizes, 12 inches (300 mm), minimum.
- Cut cable flush to ensure proper entrance into the cable prep tool.
- Recommend drill spec:  
For 1/4" through 5/8" sizes, a 3/8" 14.4-volt cordless drill used in the 0-400 rpm range.  
For 7/8" through 1-5/8" sizes, a 1/2" 15.4-volt, minimum, cordless drill used in the 250-400 rpm range. A 1/2" drill is recommended if the tool is being used for an extended period of time. The battery always wears down, before the user realizes it is low (possibly resulting in failed cable preparation). Therefore, always start with a freshly charged battery. If issues result in the course of cable preparation, the first fix should always be replace the battery.
- Feed cable prep tool onto cable (the tool should be spinning before engaging the blades with the cable end):  
For 1/2" through 5/8" sizes, feed cable prep tool onto cable keeping the tool and cable straight at all times. Apply steady pressure for only 5 to 10 seconds. Check the connector Installation Instructions for proper cable preparation dimensions and make sure they are correct.  
For 7/8" through 1-5/8" sizes, feed cable prep tool onto cable until indents drop into corrugation valley. Apply only enough hand pressure to pass indents over corrugation crest. Allow tool to feed itself into corrugation valley. Apply steady pressure only for 5 to 10 seconds. Pull on the drill. You should feel some resistance. This indicates the ballbearing has engaged the corrugations.
- For 7/8" through 1-5/8" sizes, check cable to make sure that the outer conductor is cut at the top of a crest and the jacketing is removed to the correct dimensions.
- After each cable preparation, check tool to make sure it is clear of debris from previous use.
- After extended use (150 cable preparations), inspect and replace blades, if needed.
- Avoid cross threading the clamping nut onto the cable.

If you have a problem attaching the clamping nut to the cable, check for cross threading or stretched corrugations on the cable.

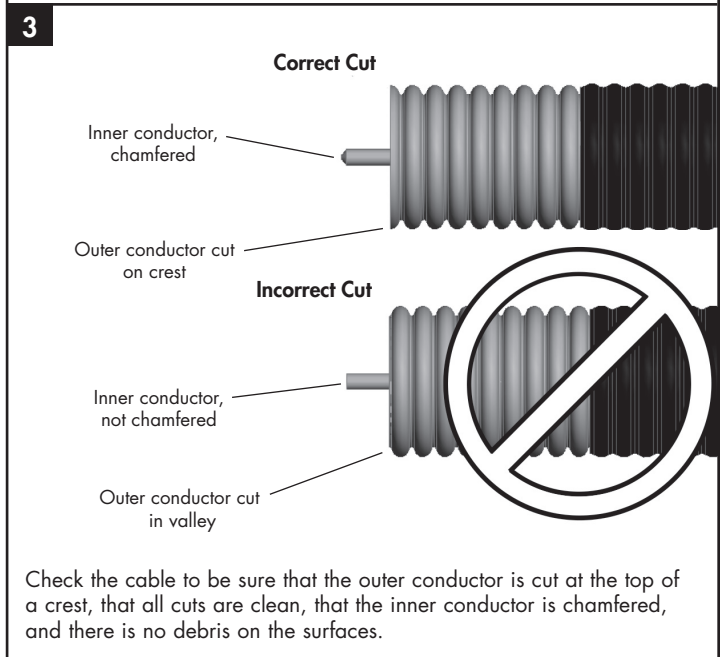
**Note:** Cordless drills vary widely in torque capabilities and other features. Perform two or more "test runs" to ensure your familiarity with the tool's operating characteristics. 150 cable preparations are achieved by rotating the blades.



Cut the cable square. If necessary, bend the cable slightly at about 5" (127 mm) for more gripping leverage. **Note:** Do not exceed the minimum bend radius of the cable.



Position the tool on the cable so that it is aligned and start the drill at medium to full speed. Use slight and steady pressure to force the tool along the cable until you feel the detent action as the ball bearings snap into place. The pitch of the motor will also increase. Then, stop the motor, switch to reverse, and withdraw the tool. **Note:** Reversing the motor prevents the cutter blades from striking the outer conductor should the motor accidentally be restarted.



Check the cable to be sure that the outer conductor is cut at the top of a crest, that all cuts are clean, that the inner conductor is chamfered, and there is no debris on the surfaces.

## CommScope

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