DXE-UT-808X
Coaxial Cable Stripping Tool

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Introduction

The DXE-UT-808X has been designed and manufactured to properly prepare RG-8X sized coaxial cable for use with DXE-PL259- PL-259 Silver Plated, Teflon® Insulation PL-259 connectors and reducers, or the DXE-N1001-S - Type N Male, Silver Plated, Teflon® Insulation two-piece Type N connector (requires a slight additional trimming of the cable center conductor length) and reducers.

The DXE-UT-808X has been tested with: DXE-8X, Belden 9258 RG-8/X, LMR-240

It is not intended for use with RG-8X look-a-like cables with soft 'squirmy' outer jackets.

Please check the DX Engineering web site http://www.dxengineering.com for the latest coaxial cable information and instructional videos

The following instructions show typical operation using Belden 9258 RG-8/X coaxial cable.

Instructions

![Image of items used]

Items Used:

1. DXE-UT-808X Coaxial Cable Stripping Tool
2. Belden 9258 RG-8/X Coaxial Cable
3. DXE-PL-259 Coaxial Cable Connector with a DXE-UG176S - RG-8/X Reducer for PL-259
4. CNL-911 Coaxial Cable Cutter
5. DXE-170M Precision Shear Side Cutters
6. Scissors
7. DXE-3M21553M Temflex™ 2155 Rubber Splicing Tape
8. TRM-06133 Scotch Super 33+ Vinyl Electrical Tape
A. Cut the end of the coaxial cable with the **CNL-911** Coax Cable Cutter to get a good flush cut.

B. You want the coaxial cable to be round and not oval when viewed from the end. If the coaxial cable is slightly oval, gently use the **CNL-911** to round out the end of the coaxial cable.

C. Install the PL-259 shell and the Reducer on the coaxial cable and slide them out of the way.

D. Place the prepared coaxial cable end into the body of the **DXE-UT-808X** labeled "**1st CUT**".
E. Firmly grip the coaxial cable and the DXE-UT-808X, turn the DXE-UT-808X in a clock wise direction while applying steady and slightly firm pressure. Grip the coaxial cable between your thumb and first finger, close to the tool.

If the outer covering is older and dried out, it may stick inside the DXE-UT-808X. One suggestion is to put a very light coating of cooking oil or other similar lubricant on the coaxial cable outer covering for about 1", then insert it into the DXE-UT-808X.

Take care to keep the oil away from the exposed coaxial cable end.

Do not use any silicone based lubricant since the silicone may interfere with soldering.

F. As you turn the tool clockwise, the DXE-UT-808X will begin cutting the outer insulation. Keep turning the tool in a clockwise direction until it will not cut anymore, the tool will eject the cut outer insulation and stop cutting at the proper length.

Remove the coaxial cable from the DXE-UT-808X.
G. Fold the shield back over the outer insulation.

H. Turn the **DXE-UT-808X** around for the second cut. Insert the coaxial cable into the **DXE-UT-808X** tool.

I. Firmly grip the cable between your thumb and first finger close to the tool and turn the tool in a clock wise direction while applying steady and slightly firm pressure. The **DXE-UT-808X** will begin cutting as you turn it. Keep turning the tool in a clockwise direction while applying steady and slightly firm pressure until it will not cut anymore, the tool will eject the cut insulation and stop cutting at the proper length.

Remove the coaxial cable. Clean any excess cable cuttings from the tool.
J. Slide the reducer up the coax to the end of the cut off outer insulation. Fold back the shield over the reducer as shown.

K. Using the **DXE-170M** precision shear side cutters, trim the shield even with the first thread on the reducer as show.

L. The PL-259 is now ready for installation. Gently screw the PL-259 on the reducer ensuring the center conductors go into the center conductor of the PL-259. The assembly is now ready to be soldered. This combination of DXE tools allows perfect and easy connector installation every time!

The premium cutting blades supplied with the **DXE-UT-808X** will last a long time. If replacements are needed, order **DXE-UT-RB-HD** (customer supplied 7/64” Allen Wrench required).
Weatherproofing

*The following example of weatherproofing shows two PL-259 connectors that are joined together with a UHF Female to Female Adapter connector.*

A. Firmly attach your coaxial cables to both ends of the UHF Female to Female Adapter.

B. Using the scissors, cut a piece of the **DXE-3M2155 Rubber Splicing Tape**. Peel back the protective backing.
   
   *Experience will help you determine how long of a piece you can comfortably work with*

C. As you tightly wrap the PL-259, stretch the **DXE-3M2155 Rubber Splicing Tape** and overlap the previous wrap by about 50%.

![Wrapping peeled back as you wrap](image)

![Stretching about 50% as you wrap](image)

![Overwrap previous wrap by about 50%](image)

D. Overwrap the **DXE-3M2155 Rubber Splicing Tape** with the **TRM-06133 Scotch Super 33+ Vinyl Electrical Tape** to give the assembly UV protection. Cover the **DXE-3M2155 Rubber Splicing Tape** completely.
Time Microwave LMR-240

When using the DXE-UT-808X coaxial cutting tool with LMR-240, the tool may leave a bit of insulation on the inner conductor. If this occurs, gently trim the inner insulation as needed. The more you practice, the better your final results will be.
DX Engineering also has a Coaxial Cable Stripping Tool for larger RG-8 style coaxial cable.

**DXE-UT-8213 - Coax Cable Stripper for RG-213, RG-8, 9913F7, LMR-400 etc.**

This tool prepares RG-8, RG-213, 9913F7, LMR-400 (not LMR-400UF) and other similar size PVC or PE jacketed coax cable for installation of a DXE-PL259 PL-259 connector - or DXE-N1001S two-piece Type N connector (requires a slight additional trimming of the cable center conductor length).

The large diameter knurled handle provides a good grip for easy stripping - you'll really appreciate that after stripping several ends! New, premium quality cutting blades assure clean cuts and long life.

- For foam or solid dielectric cable preparation
- Precision, two-step operation
- No nicks or scratches to conductor
- Premium, long lasting cutter blades

*Please visit the DX Engineering website for more information and instructional video using the tools described in this manual.*

*This combination of DX Engineering tools allows perfect and easy connector installation every time!*
Optional Items

DXE-8X - RG-8X low loss high flex, Type II-A non-contaminating PVC jacket, UV resistant, direct bury
A low loss, foam dielectric, braided shield RG-8X 50 ohm coaxial cable intended for moderate power HF stations, or mobile applications where short runs and flexibility are key factors. Slightly larger than RG-58, it offers better handling characteristics, good shielding and low loss. Uses standard PL-259 connectors with reducing adapters.

Mechanical Specifications: Center Conductor: AWG #16, 19 Strand Bare Copper. Dielectric: Gas Injected Foam, OD: .155". Shield Braid: AWG #34 Bare Copper, 96% coverage. Jacket: Black PVC Type II Non-Contaminating. Jacket Dim: .030" thick. Nominal OD: .242".

Electrical Specifications: Impedance: 50 ohms. Capacitance: 24.8 pF/foot. Velocity of Prop.: 82% (0.82)

CNL-911 - Coax Cable Cutter
High quality CHANNELLOCK cable cutters with blades designed to cut coaxial cable cleanly. Does not crush the cable like diagonal side cutters. The cut end of the cable is cleanly cut - ready for stripping and connector assembly.

DXE-170M - Precision Shear Side Cutters
After stripping coaxial cable, this is the perfect tool for trimming loose strands of copper braid or trimming individual strands of the center conductor - up to 20 AWG.
- Low profile, general-purpose cutter. Superior blade by-pass shear cutting action. Better cuts with half the effort. Greatly reduced mechanical shock delivered to the work. Features red grips. Flush cuts soft wire up to 20 AWG (0.8mm)

DXE-UT-80P - Connector Assembly Tool for PL-259/RG-213-size Cable (patent pending)
Originally introduced as the DXE-UT-80TN at Hamvention® 2008, this assembly tool allows simple threading of PL-259 sleeve onto the vinyl jacket of RG-8/U, RG-213/U, LMR-400 and other similar size cables. First strip the cable with the DXE-UT-8213 Cable Stripping Tool. Then, use this simple hand-gripped tool - forget about those pliers that scarred the connector and ripped off chunks of metal - and thread the connector body onto the stripped cable end. A visual guide at the end allows easy viewing of the cable center conductor for proper depth of installation. This tool allows a perfect and easy connector installation every time!

DXE-PL259 - PL-259, Silver Plated, Teflon® Insulation
This superior PL-259 connector uses silver plated outer and inner conductors and a Teflon® insulator. The connector has very low loss and high electrical break down.
- Silver plated
- Teflon® insulated
- Very low loss
- High electrical break down
Fits: RG213/U , RG8/U , LMR-400

To fit RG58A/U and/or LMR195 coax, utilize this PL-259 with a DXE-UG175 reducer
To fit RG8X coax, utilize this PL-259 with a DXE-UG176S reducer

DXE-UT-80N - Connector Assembly Tool for Type N/RG-213-size Cable (patent pending)
This assembly tool allows simple threading of the two-piece Type N connector sleeve onto the vinyl jacket of RG-8/U, RG-213/U, LMR-400 and other similar size cables. First strip the cable with the DXE-UT-8213 Cable Stripping Tool and trim the center conductor length slightly to fit the center pin. Then, use this simple hand-gripped tool - forget about those pliers that scarred the connector and ripped off chunks of metal - and thread the connector body onto the stripped cable end. A visual guide at the end allows easy viewing of the cable center conductor for proper depth of installation. This tool allows a perfect and easy connector installation every time!
**DXE-N1001-S - Type N Male, Silver Plated, Teflon® Insulation**
This superior Type N male connector uses a silver plated shell, Teflon® insulation and a gold-plated center pin. The connector has very low loss and constant impedance. Its two-piece construction allows for the same easy cable installation as a soldered PL-259.

- Silver plated
- Teflon® insulated
- Very low loss
- Constant impedance
  Fits: RG213/U, RG8/U, LMR-400

To fit RG58A/U and/or LMR195 coax, utilize this connector with a DXE-UG175 reducer
To fit RG8X coax, utilize this connector with a DXE-UG176S reducer

**DXE-UG175 - RG-58A/U and LMR-195 Reducer for PL-259, Nickel Plated**
This reducer is utilized in conjunction with a PL-259 connector to fit RG58A/U and/or LMR195 coax.

- Nickel plated
- High electrical break down
- Very low loss

**DXE-UG176S - RG-8X Reducer for PL-259, Silver Plated**
This reducer is utilized in conjunction with a PL-259 connector to fit RG8X coax.

- Silver plated
- High electrical break down
- Very low loss

**DXE-UT-RB-HD - Premium Replacement Blades for DX Engineering and Cablematic Strippers**
This is a set of original equipment heavy duty, longer-lasting replacement blades for the DX Engineering UT-8213 and UT-808X coax cable strippers, and is a direct premium upgrade for the Cablematic UT-8000.

- 2 blades per pack

Utilize this cap to protect PL-259 connectors that are not in use.

- Extra feedline cables
- Coaxial jumper cables

These black vinyl caps are designed to fit over the end of a PL-259 connector, covering the connector shell and the center pin. Made from a strong UV rated material, they will withstand the abuse of nature and can keep dust or other contaminants out of your connectors.

- Black Vinyl Material- UV Rated
- Great for outside installation
- Will stretch to fit securely over a PL-259 connector or a nominal 0.677 in. O.D. Tube
- Length: 1-7/16 in.
- 20 pcs per pack
DXE-CPC-250 - Cushioned P-Clamp 10-pack, for RG-8X, RG-6, RG-59 size cable
DXE-CPC-375 - Cushioned P-Clamp 10-pack for RG-213, RG-8, RG-11 size cable

DX Engineering rubber-cushioned P-clamps are ideal for providing strain relief of coaxial cable connections. Rubber insert grips cable jacket securely without nicking or cutting jacket, which would allow water entry. Supplied in a pack of 10 for convenient ordering and stocking for future needs.

TRM-06133 - Scotch Super 33+ Vinyl Electrical Tape
Scotch® Super 33+ is highly conformable and super stretchy in all weather applications. This tape provides flexibility and easy handling for all around performance. It combines PVC backing with excellent electrical insulating properties to provide primary electrical insulation for splices up to 600V and protective jacketing. Recommended as a protective overwrap for DXE-3M2155 rubber splicing tape in RF connector weatherproofing.

DXE-3M21553M - Temflex™ 2155 Rubber Splicing Tape
3M Temflex™ 2155 Rubber Splicing Tape is a conformable self-fusing rubber electrical insulating tape. It is designed for low voltage electrical insulating and moisture sealing applications. For outdoor use, it should be protected from UV deterioration with an overwrap of TRM-06133 Vinyl Electrical Tape.

Technical Support
If you have questions about this product, or if you experience difficulties during the installation, contact DX Engineering at (330) 572-3200. You can also e-mail us at:

DXEngineering@DXEngineering.com

For best service, please take a few minutes to review this manual before you call.

Warranty
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