Cable Strain Relief Kit

DXE-CSR8X-1
DXE-CSR213-1

DXE-CSR8X/213-1-INS Rev 2d

DXE-CSR8X-1 shown installed with a typical DX Engineering Balun (left picture)
DXE-CSR213-1 shown installed on a typical Comtek Balun (right picture)
(Additional optional parts shown)

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Introduction

The DX Engineering DXE-CSR8X-1 and DXE-CSR213-1 are coaxial Cable Strain Relief kits especially designed to be used with DX Engineering Baluns and Comtek Baluns. The Cable Strain Relief may also be used on other baluns using the same NEMA grey case used on the Comtek Baluns.

The DXE-CSR8X-1 includes clamps for RG-8X coaxial cable and the DXE-CSR213-1 includes clamps for RG-213 coaxial cable.

Coaxial cable is heavy. If not properly restrained, the weight of cable can cause a failure in your feed line connection and in some cases, the cable can pull completely out of the PL-259 connector.

The DXE-CSR Cable Strain Relief kits are designed with corrosion-resistant aluminum and use stainless steel hardware. These kits are very durable and will ensure cable strain is relieved to keep you on the air.

Note: Extra flat washers and star lock washers are provided if you’re using the Cable Strain Relief Kit for other applications requiring dependable cable strain relief.

WARNING!

INSTALLATION OF ANY ANTENNA NEAR POWER LINES IS DANGEROUS

Tools

You will need 5/16” and 3/8” wrenches, socket and drive or nut drivers and pliers.

Assembly with a DX Engineering Balun

Loosely mount the bracket to the balun using the 3/8” x 5/8” long bolt, with the star washer between the bracket and the balun flange, and Nyloc nut (Figure 1). Depending on the balun used, the slot in the bracket shown in Figure 2 is for adjusting the bracket from side to side to align the PL-259 to the balun’s SO-239. When installing stainless steel hardware, it is suggested that UMI-81343, 81464, DXE-NSBT8, DXE-NMBT8 - Never-Seez® or Anti-Seize be used to prevent thread galling.
Fully insert the PL-259 to the balun and tighten the collar. Loop the cable through the ‘P’ clamps and form approximately a 6” diameter loop of cable.

Mount the ‘P’ clamps on both sides of the bracket using the hardware (1” bolt, ¼” spacer, 3 star washers, and Nyloc nut) as shown in Figure 3. Using pliers will help hold the clamps and parts together while you get the Nyloc nut started.

Once the cable is aligned between the balun and the first ‘P’ clamp, tighten the bolt, star washer, and nut at the balun end of the bracket. Ensure the cable going through the ‘P’ clamps is properly aligned and has the loop. Tighten all the parts holding the ‘P’ clamps in place.

The completed Cable Strain Relief kit installation should look like Figure 4.

**Assembly with a Comtek Balun**

The following assembly shows the Cable Strain Relief being used with a Comtek Balun and a DXE-BMB-4P Balun Mounting Bracket (used for the Comtek Balun).

Mount the Comtek Balun to the DXE-BMB-4P Balun Mounting Bracket per the instructions that came with the DXE-BMP-4P.

Loosely mount the Cable Strain Relief bracket to the DXE-BMB-4P bracket using the 3/8” x 5/8” long bolt, with the star washer and Nyloc nut (Figure 5).
Fully insert the PL-259 to the balun and tighten the collar. Loop the cable through the ‘P’ clamps and form approximately a 6” diameter loop of cable.

Mount the ‘P’ clamps on both sides of the bracket using the hardware (1” bolt, 1/4” spacer, 3 star washers, and Nyloc nut) as shown in Figure 6. Using pliers will help hold the clamps and parts together while you get the Nyloc nut started.

Once the cable is aligned between the balun and the first ‘P’ clamp, tighten the bolt, star washer, and nut at the balun end of the bracket. Ensure the cable going through the ‘P’ clamps is properly aligned and has the loop. Tighten all the parts holding the ‘P’ clamps in place.

The completed Cable Strain Relief kit installation should look like Figure 7.

The PL-259 connected to the balun (or other device) should be weatherproofed using DXE-3M2155 - 3M Temflex™ and TRM-06132 - Scotch® Super 33+ available from DX Engineering.

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
All products manufactured by DX Engineering are warranted to be free from defects in material and workmanship for a period of one (1) year from date of shipment. DX Engineering’s sole obligation under these warranties shall be to issue credit, repair or replace any item or part thereof which is proved to be other than as warranted; no allowance shall be made for any labor charges of Buyer for replacement of parts, adjustment or repairs, or any other work, unless such charges are authorized in advance by DX Engineering. If DX Engineering’s products are claimed to be defective in material or workmanship, DX Engineering shall, upon prompt notice thereof, issue shipping instructions for return to DX Engineering (transportation-charges prepaid by Buyer). Every such claim for breach of these warranties shall be deemed to be waived by Buyer unless made in writing. The above warranties shall not extend to any products or parts thereof which have been subjected to any misuse or neglect, damaged by accident, rendered defective by reason of improper installation, damaged from severe weather including floods, or abnormal environmental conditions such as prolonged exposure to corrosives or power surges, or by the performance of repairs or alterations outside of our plant, and shall not apply to any goods or parts thereof furnished by Buyer or acquired from others at Buyer’s specifications. In addition, DX Engineering’s warranties do not extend to other equipment and parts manufactured by others except to the extent of the original manufacturer’s warranty to DX Engineering. The obligations under the foregoing warranties are limited to the precise terms thereof. These warranties provide exclusive remedies, expressly in lieu of all other remedies including claims for special or consequential damages. SELLER NEITHER MAKES NOR ASSUMES ANY OTHER WARRANTY WHATSOEVER, WHETHER EXPRESS, STATUTORY, OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, AND NO PERSON IS AUTHORIZED TO ASSUME FOR DX ENGINEERING ANY OBLIGATION OR LIABILITY NOT STRICTLY IN ACCORDANCE WITH THE FOREGOING.

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