

# Liquid Tight Connector LQSR12 Installation Instructions

## General Warning and Instructions

When both transformer and neon sign are in wet locations you will need a Liquid Tight 1/2" Support Ring (LQSR12) to secure and insulate the end of LQSR or any UL Listed 1/2" Flexible Metallic Liquid Tight Conduit with WB3760 GTO Slewing or Integral sleeve GTO wire.  
LQSR12 includes US98 and GTOCA260.  
Do not cut or modify otherwise than as per proper instructions.  
Always use a diagonal cutter or similar tool to make a clean cut of US98 and GTOCA260.

## Using LQSR12 with neon integral sleeve GTO wire



Figure 1 Exploded view of all necessary parts for Electrobits transformer connection when both transformer and sign are in wet locations. Using Integral Sleeve GTO wire.  
Maximum length of LQSR is 20 feet  
Cut LQSR 6" shorter than Integral sleeve GTO wire  
Strip GTO cable on 1"  
GTO Cable minimum length for proper assembly is 6 inch allowing 1 inch of insulation removed for splices.

## Using LQSR12 with neon GTO wire and WB3760 GTO Slewing

Figure 1 Exploded view of all necessary parts for Electrobits transformer connection when both transformer and sign are in wet locations.

Maximum length of LQSR is 20 feet  
Cut LQSR 6" shorter than WB3760  
Cut WB3760 3" shorter than GTO cable  
Strip GTO cable on 1"  
GTO Cable minimum length for proper assembly is 6 in allowing 1 inch of insulation removed for splices.

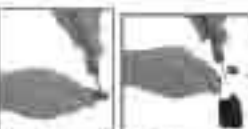


Fig. 2 & 3 When using US98 with integral sleeve and GTO Cable Adaptor you must cut the US98 between the 2nd molded line demarcation to remove the three first sections of the bushing, keeping only the bottom part with the flanged collar. Make sure to grasp the flanged end of the US98 prior to cutting to reduce the likely hood that the piece you need to keep would fall to the ground.

Fig. 4 Choose GTO Cable Adaptor according to cable size



**Gto-Cable Adaptor**  
GTOCA260 for cable O.D. from 0.260 to 0.315  
GTOCA130 for cable O.D. from 0.130 to 0.230

Electrobits GTO Cable Adaptor model series number GTOCA260 rated 15kv midpoint grounded is designed and Classified to be used with the following UL Classified integral sleeve systems:

1. Electrobits GTO-10 integral sleeve E137842
2. Page electrical GTO-15 integral sleeve E135239
3. Transco GTO-15 integral sleeve E226224
4. ISS GTO TECH-2 GTO-15 integral sleeve E257545
5. Westrim Hi-Flex GTO-15 integral sleeve E237561
6. Siltherm GTO-15 integral sleeve E193971
7. Neon Power Pro GTO assembly E192648



Figure 2 Sleeve your GTO cable into WB3760 and into LQSR



Figure 3 Disassemble LQSR12



Figure 5 Slide the large metallic head over the LQSR/WB3760 Slewing GTO wire assembly, along with yellow plastic ring. Slide the 1/2" metal-on connector over the slewing and cable assembly and screw it into the LQSR.



Figure 3 Slide the central part of the LQSR12 connector over the assembly and screw the large head onto it.



Figure 4 Cut US98. Flanged end should be kept and the other end may be discarded.



Figure 7 Slide US98 over WB3760 and GTO cable. If necessary, slide support ring over assembly and use metallic self-lapping screw to hold assembly in place on wall or ceiling.



Figure 6 Make sure US98 is fully inserted into central part of LQSR12 connector.



Figure 9 Tighten bolts and nuts and bushing over WB3760 and GTO cable and screw all pieces together.



Figure 6 Slide the large metallic head over the LQSR/Integral Sleeve GTO wire assembly, along with yellow plastic ring. Slide the 1/2" metal-on connector over the integral sleeve and screw it into the LQSR.



Figure 8 Slide GTOCA into pre-cut US98.



Figure 9 Flush pre-cut US98/GTOCA assembly into the central part of the LQSR12 connector.



Figure 7 If necessary, slide support ring over assembly and use metallic self-lapping screw to hold assembly in place on wall or ceiling. Slide pre-cut US98 and appropriate GTOCA over integral sleeve GTO cable.



Figure 10 Resume assembly by screwing the metallic bushing over the central part of the LQSR12 connector.



Figure 10 You are now ready to make connection between GTO cable and electrode using either Wetbits Short-Sleeve or Wetbits End Cap. Make sure to leave at least 6 3/4 in. of GTO cable and WB3760 assembly standing out for connection with Wetbits End Cap Wire.



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