

Passthru and Outdoor Passthru Installation instructions using USSB

GENERAL WARNINGS AND INSTRUCTIONS



USSB stands for UNIVERSAL SIGN SEALING BUSHING. It is designed to fit all Electrobits® connectors: Passthru (any length), Straight Connectors Male, General Binding (all models) and Liquid Tight connectors. It is also designed to receive safely any type of secondary sign wire: GTO wire for neon signs; GF, Tetra or Stained wires for LED signs as well as ballast wire for fluorescent signs.
RATING: 15,000v midpoint grounded.
 Do not cut or modify otherwise than as per proper instructions. Always use a diamond cutter or similar tool to insure a clean cut of USSB.

Electrobits® USSB is to be installed as part of UL listed, recognized or classified system; it does not constitute UL installation by itself. The following pages present the 6 different types of wiring you may use with Electrobits® USSB and the 6 different connectors. Always follow the appropriate installation instructions.

1. TYPICAL LED SIGN RV-AWMI WIRING / Dry and Damp Locations



Fig. 1 When using USSB with standard LED wire, there is no need of cutting the bushing. Simply use a drill of 5/32" maximum to perforate the second hole at bottom.

Using Passthru



2. TYPICAL LED GE TETRA WIRING INSTALLATION / Dry and Damp Locations



Fig. 2 When using USSB with GE TETRA LED wire, you must cut the USSB along the 1st molded line delimitation to remove the first section with the two holes. Make sure to grasp the flanged end of the USSB prior to cutting to reduce the likely hood that the piece you need to keep would fall to the ground.

Using Passthru

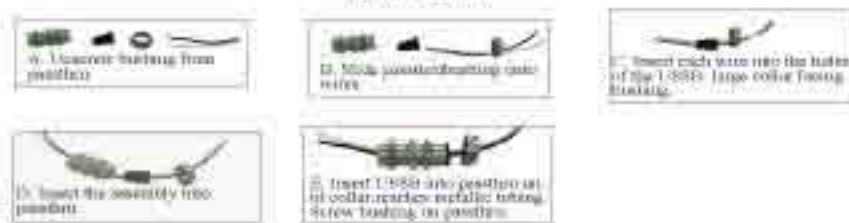


3. TYPICAL SIGN BALLAST AWMF 104 V WIRING INSTALLATION / Dry and Damp Locations



Fig. 3 When using USSB with standard sign ballast AWMF 104V WIRING there is no need of cutting the USSB. Simply use a drill of 5/32" maximum to perforate the second hole at bottom.

Using Passthru

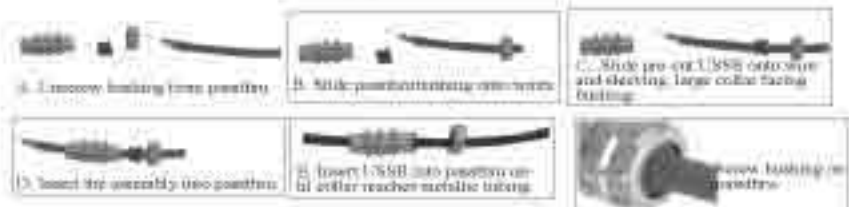


4. TYPICAL NEON GTO WIRE & GTO GTO SLEEVING INSTALLATION / Dry, Damp and wet locations



Fig. 4 & 5 When using USSB with GTO wire and GTO GTO SLEEVING, you must cut the USSB along the 2nd rib to remove the two first sections of the bushing (the ones with the two small holes). Make sure to grasp the flanged end of the USSB prior to cutting to reduce the likely hood that the piece you need to keep would fall to the ground.

Using Passthru



5. TYPICAL NEON GTO WIRE & WBT60 GTO SLEEVING INSTALLATION / Dry, Damp and wet locations



Fig. 6 & 7 When using USSB with GTO wire and GTO GTO SLEEVING, you must cut the USSB between the 2nd molded line delimitation to remove the two first sections of the bushing. Keeping only the bottom part with the flanged collar. Make sure to grasp the flanged end of the USSB prior to cutting to reduce the likely hood that the piece you need to keep would fall to the ground.



6. TYPICAL NEON INTEGRAL SLEEVE & GTO CABLE ADAPTOR INSTALLATION / Dry, damp and wet locations



Fig. 6 & 7 When using USSB with integral sleeve and GTO Cable Adaptor you must cut the USSB between the 2nd molded line delimitation to remove the two first sections of the bushing. Keeping only the bottom part with the flanged collar. Make sure to grasp the flanged end of the USSB prior to cutting to reduce the likely hood that the piece you need to keep would fall to the ground.

Gto Cable Adaptor

GTOCA260 for cable O.D. from 0.260" to 0.315"
GTOCA130 for cable O.D. from 0.130" to 0.200"

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 E134230
 3. Franco GTO-15 integral sleeve E226224
 4. ISS GTO-TECH-2 GTO-15 integral sleeve E257545
 5. Westram IB-Flex GTO-15 integral sleeve E297580
 6. Sillithorn GTO-15 integral sleeve E193971
 7. Neon Power Pro GTO assembly E192648

- Choose GTOCA according to your GTO cable guide diameter:
 - For cables O.D. ranging from 0.260" to 0.275" (GTO15 and Integral sleeve GTO), use GTOCA260 as is.
 - For cables O.D. ranging from 0.300" to 0.315" (Integral sleeve GTO15), you must cut the GTOCA along the parting line, as per figures below.
 - For GTO cables O.D. ranging from 0.130" to 0.150" (GTO5) use GTOCA130 as is.
 - For GTO cables O.D. ranging from 0.210" to 0.230" (GTO10), you must cut the GTOCA along the parting line, as per figures below.



- Dissassemble the metallic bushing, the USSB and two locknuts from OUTPUT. Maximum length of Flexible Metallic Conduit such as BX-781590 sleeve or GTO cable assembly is 20 feet. Cut BX-781590 sleeve that integral sleeve GTO cable.
- Insert the integral sleeve GTO cable into the flexible metallic conduit. Use female straight connector (SCF52) to link with OUTPUT. Make sure OUTPUT length covers the wall completely and stands out front for 10". Install OUTPUT thru wall making 1/8" hole. Use provided locknuts to secure in place.
- Slide integral sleeve GTO cable into the OUTPUT. Make sure you have 6" of this assembly standing out front for electrode connection.



- Slide the pre-cut USSB and the appropriated GTOCA onto the standing out integral sleeve over the GTOCA into the USSB as shown on pictures below.
- Insert the USSB/GTOCA assembly into the OUTPUT.
- To resume installation, slide the metallic bushing over the GTO cable and WBT60 assembly.

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