



## CUSTOM PUMPWIRE REDUCER SPLICE KIT

### INSULATION: 3M™ ITCSN HEAT SHRINK

### SIZES: 16 AWG - 750MCM



#### 1.0 BUTT CONNECTORS:

##### 1.1 **Un-insulated Copper Compression Terminals:**

Burndy HYLUG™ terminals are designed for terminating copper conductors in a wide variety of electrical connections including heavy-duty industrial, utility and submersible. The connectors are manufactured from seamless high conductivity electrolytic copper tubing with heavy duty wall thickness which provides maximum conductivity, low resistance and ductility for an excellent combination of electrical and crimp forming properties. The connectors are electro-tin plated to provide a durable, long-lasting corrosion resistance and are UL LISTED 90° C, 600 volts to 35 kV and CSA certified to 600 volts.

##### 1.2 **Product Features:**

- 1.2.1 Internally beveled barrel end: Ideal for 600 volt heavy duty applications. Also may be used at higher voltages up to 35KV.
- 1.2.2 Long barrel length: extruded semi-conducting
- 1.2.3 Four (4) center conductor stops: Provides a center wire stop for proper conductor insertion.

#### 2.0 HEAVY WALL HEAT SHRINK TUBING:

**2.1** 3M™ ITCSN Heat Shrink Tubing is designed to provide reliable performance for electrical splices, connections, and terminations, as well as mechanical and environmental protection. ITCSN is fabricated from cross-linked polyolefin. The tubing is highly split resistant and fast shrinking to provide rapid installation. The tubing comes standard with a factory-applied adhesive/sealant. UL 486D — ITCSN Tubing was subjected to the requirements of UL 486D and passed all tests. ITCSN is UL Listed per UL 486D. CSA Certified.

##### 2.2 **Product Features:**

- 2.2.1 Thick walls top resist puncture and abrasion damage.
- 2.2.2 Direct buried or submersible.

##### 2.3

- 2.2.3 Complete environmental protection.
- 2.2.4 Shrink ratio as high as 4:1.
- 2.2.5 Resists acids and alkalis.
- 2.2.6 Bonds to a wide variety of substrates.
- 2.2.7 Reliable and proven.
- 2.2.8 UV resistant.

##### **Description:**

Scotch<sup>®</sup> Linerless Rubber Splicing Tape 130C is a highly conformable, linerless, ethylene rubber (EPR), high-voltage insulating tape, formulated to provide excellent thermal dissipation of splice heat. The tape is designed for use in splicing and terminating wires and cables. Rated up to 90°C continuous operating temperatures and short-term 130°C overload service. The tape has excellent physical and electrical properties, which provide immediate moisture seals and void-free build-ups. This product can be used for low and high-voltage (through 69 kV) applications.

##### 2.4

##### **Product Features:**

- 2.4.1 Lineless, self-bonding, primary insulating tape rated through 69 kV.
- 2.4.2 High thermal conductivity.
- 2.4.3 Ethylene propylene base.
- 2.4.4 Excellent, moisture-sealing physical and electrical properties.
- 2.4.5 Designed to insulate splices and terminate cables whose overload temperatures can reach 130°C.
- 2.4.6 Physical and electrical properties unaffected by degree of stretch.
- 2.4.7 Compatible with common, solid dielectric cable insulation
- 2.4.8 Uniform tape unwind from roll.
- 2.4.9 Small roll size (O.D.).
- 2.4.10 Stable over wide application temperature range.
- 2.4.11 Weather resistant.

## Splice Kit Instructions



1st Step: Butt Spliced Together, crimp and solder



2nd Step: Wrap butt Splices with self-vulcanizing rubber tape.



3rd Step: Apply heat shrink over butt Splice and self-vulcanizing rubber tape.



4th Step: Apply self-vulcanizing rubber tape over all exposed cables.



5th Step: Apply heat shrink over the self-vulcanizing rubber.

## Sample Reducer Splice Kits

P/N	Description
2720441	#16 AWG X 10 Conductor Copper Splice Kit
27171325	Splice Kit, #14/13C, #12/2C & #18/2C TC Heat Shrink
2720451	#14/15 Pr Individually Shielded & Overall Shielded Cable Splice Kit
272023	#12/7c Tray Cable Splice Kit
271100115	#8/4c & #18/3c Jacketed Composite Cable Splice Kit
272055A	240063 #6/4C Alum & #12/2C CU 1-1/4" Duct Splice Kit
2720411	6/4 To 10/4C SOOW Cord Flex Stranding Reducer Splice Kit
2720601	4/3 W/Ground To 4/3 W/Ground 5KV Splice Kit 5KV DSGCANUSA CJ3821-PEC
2720603	#4/3 To #4/3 W/#8 Ground & #8 Ground Check 5KV SHD-GC Cable Splice Kit
2720401	Reducer Splice Kit, #4 AWG/4C To #10 AWG/4C Jacketed Copper
272041	#4/3C W/Ground To #8/3C W/Ground Pump Cable Reducer Splice Kit
272062	4/3W Ground To 14/3 W/Ground Jacketed Splice Kit
272063	#4/3C W/Ground To #6/3 W/Ground Jacketed Splice Kit
272076	2/3 To #8 Reducer Pump Cable
272077	#2/3C W/Ground To #8/3C W/Ground Jacketed Splice Kit
2720771	Reducer Splice Kit, #2/4C To #4/4C Jacketed Cable
2720606	Reducer Splice Kit, #2 AWG To #4 AWG Copper Jacketed, 5KV Shielded
2720606UA	Reducer Splice Kit, #2 To #4 AWG Copper Jacketed, 5KV Shielded Unarmored
2720607	#2/3C W/2- #8 Grounds Copper 5KV Shielded Splice Kit
2720772	Reducer Splice Kit 4/C #2 AWG To #8 AWG Copper Medium Voltage
270106M	Reducer Splice, Mechanical #1/0 To #4 AWG/4C CU/Aluminum in Duct or Jacketed
272096	1/0-3 To 8/3 Reducer Jacketed Pump Cable
2720961	1/0-3 w/Ground To #6/4C Reducer Jacketed Pump Cable
27209615	5 To 35KV #1/0-3/w/Ground To #6/4c Jacketed Splice KIT
2720962	1/0-3 w/Ground To #8/4C Reducer Jacketed Pump Cable
2720963	Reducer Splice Kit, #1/0 To #2 AWG Copper Jacketed
2720964	4-50mm, 1-25mm, 5-16mm Jacketed Cable Splice KIT
2720965	#1/0-3C To #8/3C COPPER Reducer Splice No Jacket
2720966	#1/0-3C To #6/3C COPPER Reducer Splice No Jacket
2720942	1/0-3/ W/Ground To 4/3 W/Ground Jacketed Reducer Pump Cable
2720943	1/0-3/C X #4/3C Jacketed Reducer Pump Cable
2720940	#2/0-3C W/#2 Ground To #2 AWG Flex Strand Jacketed Pump Cable
2720941	2/0-3 W/Ground To 1/0-3 W/Ground Reducer Pump Cable
2720944	5KV #2/0-3C To #2 AWG/3C W/2 X #4 AWG Ground Heat Shrink Splice Kit
273003	2/0-3 (NO Ground) Jacketed Pump Cable To #3 AWG Stranded (MoTor Leads)
273002	2/0-3 W/Ground To 4/3 W/Ground Reducer Jacketed Pump Cable
273001A	2/0-3 W/Ground To 8/3 W/Ground Reducer Jacketed Pump Cable
2730021	2/0-3C W/#6 Ground Cable Reduced To #12/4C Single Conductor Splice KIT
2730053	3/0-3 W/#6 Ground To #1 OR #1/0-3 W/#6 Ground Reducer Pump Cable
2730052	3/0-3 W/Ground To 2/3 W/Ground Reducer Jacketed Pump Cable
2730051	3/0-3 W/Ground To 4/3 W/Ground Reducer Jacketed Pump Cable

270164	4/0 3/C W/#4Ground To 2 AWG 3/C W/#6Ground Reducer
270164HF	#4/0 To #2 AWG Flex Stranding Reducer Splice
270137	4/0-3C W/#4-1C To #2-3C W/#6 Reducer Jacketed
2701371	4/0-3C W/#4-1C To #2-4C Flex Strand Reducer Jacketed
2725642	#4/0 To #2/0 3/C Copper Jacketed Reducer Splice Kit
273012	4/0 To 4 AWG Jacketed Splice KIT 600V
2730121	#4/0-3, #4-1C To #6-3, #8-1C FLAT Jacketed Pump Cable Splice KIT
2730123	#4/0-3 W/#1/0 Ground Hydroflex To #1/0 Flex Strand Jacketed Splice Kit
273013	4/0-3 W#2 Ground To #2/4C Reducer Jacketed Cable
273012G	4/0-3 W/G To 4/3 W/G TRANS Splice Kit
2730531	120mm sq.(250MCM) Copper Single Conductor Heat Shrink Splice Kit
2720811	250MCM-3, #1/1C To 35 MM SQ. 4/C Reducer PU. Cable
2730521	250MCM-3 W/Ground To #2 AWG/3 W/Ground Reducer Pump Cable
273050	250MCM-3 W/Ground To #4/4C Reducer
2730501	250MCM-3 W/Ground To #6/4C Reducer
2730522	250MCM-3 W/Ground To 2 AWG/3 W/Ground Reducer Jacketed PU CBL
273050P5S	250MCM-3 W/Ground To #4AWG-3 W/Ground Jacketed Resin Splice Kit
2730520	250-3C W/#4 AWG Ground To #2/0 Jacketed Cable
270754	#250MCM To #4/0 AWG CU Jacketed Reducer Splice Kit
27305522	350MCM-3 W/Ground To #6AWG-3 W/Ground Jacketed Splice Kit
273052	250MCM-3/C To #2 AWG/3C Reducer Pump Cable
2720812	350 MCM/3C, #1/0/1C To Parallel 50 MM SQ. Reducer PU. CABLE
273055G	350 MCM-3 W/Ground OR 250 MCM Flex Stranded Jacketed Pump Cable
273055	350 MCM-3 W/Ground To 1/0-3 W/Ground Reducer Jacketed PU Cable
2730555	350MCM-3 W/Ground To #2/0 3/C W/Ground Jacketed Reducer PU. CBL
2730554	350MCM-3 W/Ground To #4/0 3/C W/Ground Reducer Pump Cable
2730552	350MCM-3 W/Ground To 2 AWG/3 W/Ground Reducer Jacketed PU Cable
27305521	350MCM-3 W/3-#6 Ground To 2 AWG/4C Reducer PU. Cable
27205523	350MCM W/Ground To #12 AWG W/Ground Copper Reducer Splice Kit
270787	500MCM To #4/0 Copper 3/C Reducer Jacketed Splice KIT
2707871	Reducer Splice Kit, 500MCM To 50MM SQ.(#1/0 AWG) Copper Jacketed
273057	500MCM-3 W/350MCM Ground Splice Kit for Aluminum
2701711	500MCM-3 W/Ground To #2 AWG-3 W/Ground Jacketed PU. Cable
2701711F	500MCM-4 To #1/0 OR #2 AWG-4 FLEX STRD Jacketed PU. Cable
270173	500MCM-3 & #3 AWG Ground To #2/0 COPPER Jacketed PU. Cable
2701731	2 x 500MCM To #4 AWG & 1 X #1/0 To #4AWG Jacketed CU Splice Kit
2701732	500MCM To #2/0 CU FLEX STRAND OR #3/0 Jacketed Cable Splice Kit
2701733	500MCM-3 & #3 AWG Ground To #3/0 Copper MoTor Leads
27500350CC	500MCM-2C W/350MCM-1C Aluminum Triplex in 2.5" CIC Splice Kit
2730550	750MCM/3 W/#1 AWG Ground To #2/0 AWG MoTor Leads Copper Reducer Splice Kit
2730553	750MCM-3 W/#1/0 OR #1 Ground Pump Cable
27305511	750MCM To #1/0 AWG Reducer Splice Kit Copper