

# 5-28kV 600/900A Deadbreak



# 600/900A Deadbreak Elbow



## DESCRIPTION

The 600/900 Amp Deadbreak Elbow and accessories offer an easy and reliable method of terminating and splicing main feeder circuits. The Deadbreak Elbow also known as a “T Body”, is a fully shielded, molded EPDM rubber connector utilizing a high-torque, bolted connection making it ideal for highly loaded circuits with high fault currents. Our Deadbreak Elbows are designed for use on solid dielectric cable (XLPE or EPR) with semi-conductive and neutral shielding. The accessory can be installed on cable with or without an outer jacket.

## 900A RATING

The Deadbreak Elbow can be rated for 900A continuous current when used with a copper top compression connector or shear bolt, copper insulating plug, copper stud, and copper bushing or junction.



## INTERCHANGEABILITY

The Deadbreak Elbow has been designed and tested to meet the requirement of IEEE Standard 386, Interface 11. Conformance to this industry standard ensures mechanical and electrical interchangeability with other products of manufacturers that are also in conformance with the standard.



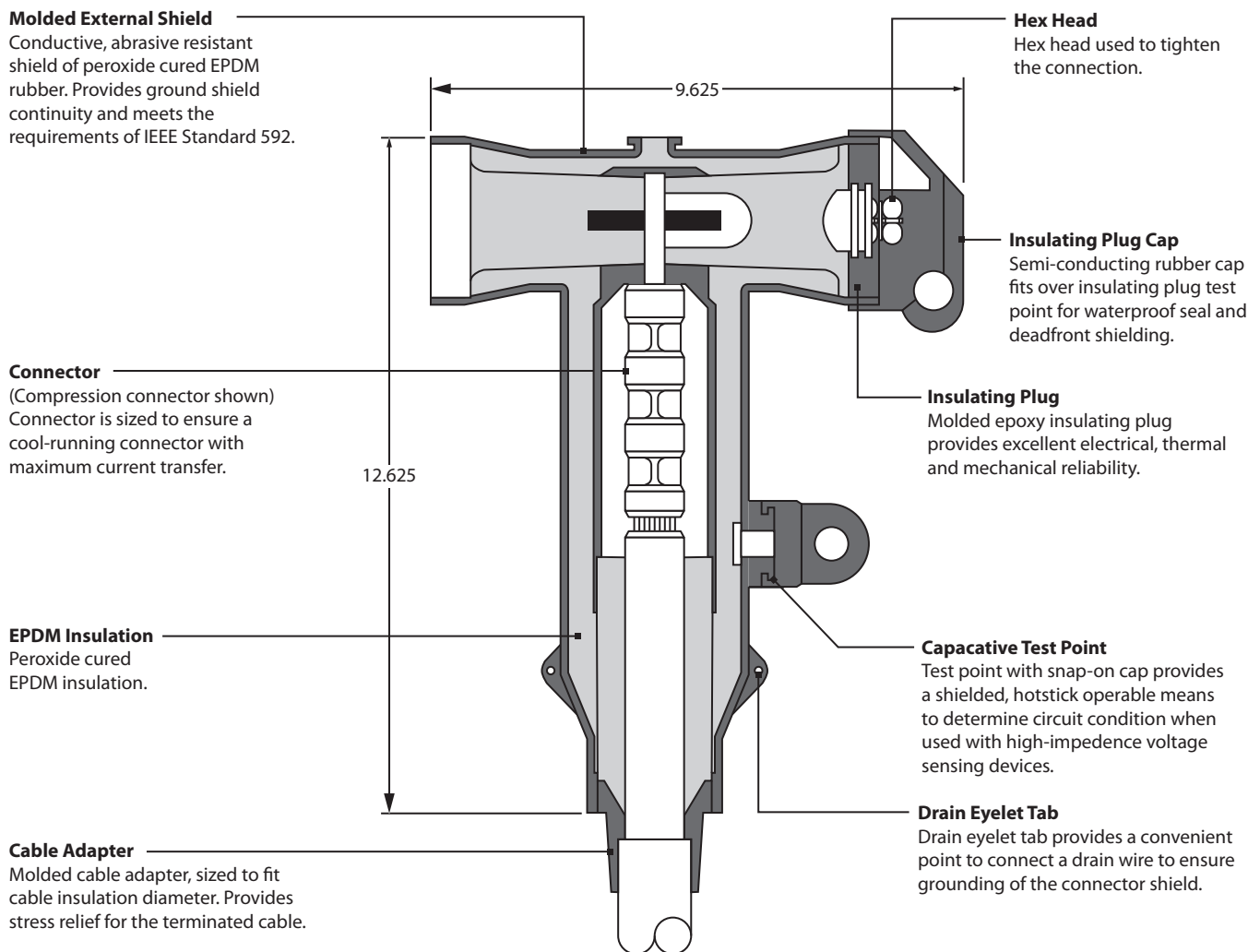
## SPECIFICATIONS AND RATINGS:

For Reference, IEEE 386 ratings are provided below.

IEEE 386 – Industry Minimum Requirements	
Voltage Ratings	
<b>Voltage Class, Phase to Phase</b>	<b>25kV</b>
Maximum Operating Voltage – Phase to Ground	16.2kV
Corona Voltage Level – Partial Discharge Extinction Voltage	30kV 
AC Withstand – 1 minute	57kV 
Impulse Withstand Voltage - BIL	125kV
Continuous Current Ratings	
Aluminum Components Utilized	600A
Copper Components Utilized	900A
Short Time Current Ratings	
Aluminum Components Utilized	25kA, 10cycles and 10kA, 3sec.
Copper Components Utilized	40kA, 10cycles and 10kA, 3sec.

 Exceeds IEEE 386 requirement

## FEATURES AND BENEFITS



*Dimensions are for reference only.*

## APPLICATIONS

- Outdoor
- Vaults
- Enclosures
- Direct Bury
- Submersible

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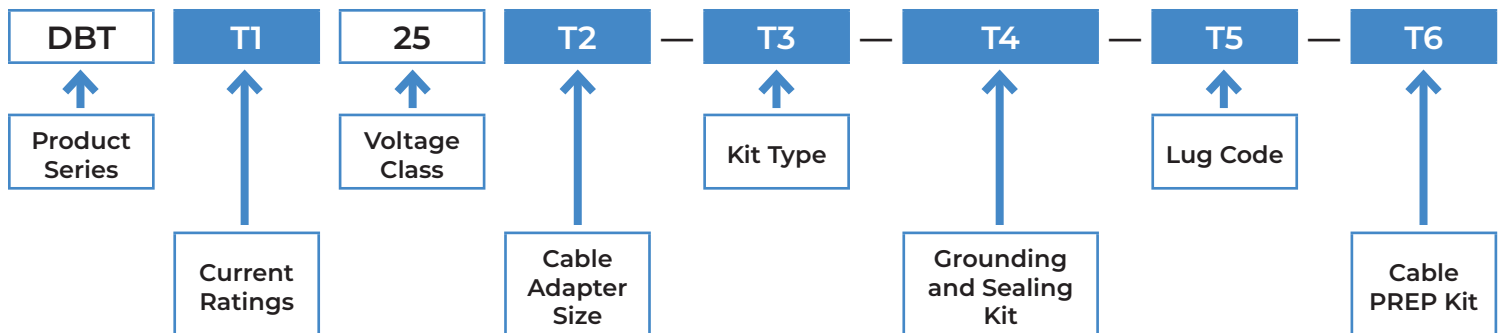
## KIT SELECTION

Use the tables (T#) below to assemble the full catalog ID for the kit needed.

**NOTE:** Product Series = DBT (Deadbreak T Body with Test Point)

**NOTE:** Voltage Class = 25 (15/25kV Deadbreak T Body)

**EXAMPLE:** DBT625K-E-S4000-ALSBI14-1P



### T1 – Current Ratings

Catalog ID	Description
6	600A (Aluminum Components)
9	900A (Copper Components)

### T2 – Cable Adapter Size

Catalog ID	Insulation Range INCHES	5kV 100%	5kV 133% 8kV 100%	8kV 133%	15kV 100%	15kV 133%	25kV 100%	25kV 133%	28kV 100%
NA	No Adapter	-	-	-	-	-	-	-	-
E	0.524 - 0.827	1/0-250	1-4/0	2-3/0	4-2/0	4-2	4	-	-
F	0.642 - 0.945	4/0-400	3/0-300	2/0-250	1-4/0	4-2/0	4-1/0	4	4-2
G	0.760 - 1.063	300-550	250-450	4/0-400	3/0-300	1/0-250	2-3/0	4-1	4-2/0
H	0.839 - 1.142	400-650	350-550	300-500	250-400	3/0-300	1/0-250	4-2/0	1-4/0
J	0.976 - 1.280	600-800	500-750	450-700	350-600	300-500	4/0-400	2/0-250	4/0-350
K	1.075 - 1.378	700-1000	600-900	550-800	500-750	400-600	300-500	4/0-350	250-450
L	1.173 - 1.476	900-1000	800-1000	700-1000	600-900	500-750	400-650	300-500	350-550
M	1.358 - 1.654	1250	1250	1000	900-1000	750-1000	650-900	500-700	600-800
N	1.496 - 1.791	1250-1500	1250-1500	1250-1500	1250	1000-1250	900-1000	700-900	800-1000
P	1.713 - 2.008	-	-	-	1500	1500	1250-1500	1250	1000-1250

**NOTE:** Only use Catalog ID = "NA" for the Cable Adapter if you are requesting a Kit Type = O (Deadbreak Housing ONLY). A cable adapter is required to properly install the accessory onto a cable. Cable sizes listed are conservative based on industry standards.

## T3 – Kit Type

Catalog ID	Description	T Body	Connecting Plug	Epoxy Plug and Cap	Stud
O	Deadbreak Housing ONLY	1	–	–	–
E	Equipment Connection (For future apparatus bushing)	1	–	1	1
S	Splice (Splice cable using Deadbreak T-body)	1	1	1	1
T	Tap Kit (Add-on, for adding to “S” kits for multi-tap splice or adding another cable to existing installation).	1	1	–	1
D	Dead End Splice (With future add-on capability).	1	–	2	1

## T4 – Grounding and Sealing Kits

Catalog ID	Cable Adapter Sizes	Cold Shrink Tube	#6 Ground Braid with Drain Wire	Constant Force Spring
NG	–	–	–	–
S4000	E – P	1	–	–
GS4001	E – G	1	1	1
GS4002	H – K	1	1	1
GS4003	L – M	1	1	1
GS4004	N – P	1	1	1

**NOTE:** When working with jacketed cable it is recommended to re-seal the bottom of the Deadbreak T body with a sealing kit. Depending on the cable construction and local installation practices, the cable neutrals may also require special treatment. For jacketed cables like tape shielded cable, a ground braid should be used to connect the shield to ground without disturbing the integrity of the seal. If you are unsure if or which kit to include, please contact your Prysmian representative.

**NOTE:** Grounding and Sealing Kits can be ordered as part of the Deadbreak T Body kit or separately. Contact your Prysmian representative for details



## T5 – Recommended Shear Bolt Lugs

Catalog ID	Connector Type	Cable Size		Conductor Material	Current Rating
		Stranded / Compressed	Compact / Solid		
ALSB1L1	Shear Bolt	#5 - 300		Bi-Metallic (AL / CU)	600 / 900
ALSB1L2	Shear Bolt	1/0 - 450		Bi-Metallic (AL / CU)	600 / 900
ALSB1L3	Shear Bolt	3/0 - 600		Bi-Metallic (AL / CU)	600 / 900
ALSB1L4	Shear Bolt	350 - 750		Bi-Metallic (AL / CU)	600 / 900
ALSB1L5	Shear Bolt	600 - 1250		Bi-Metallic (AL / CU)	600 / 900

**NOTE:** If you need a compression connector, please contact your Prysmian representative and provide the conductor size, material, stranding. This information is critical for selecting an appropriate connector for the application.

## T6 – Cable Cleaning “PREP” Kits

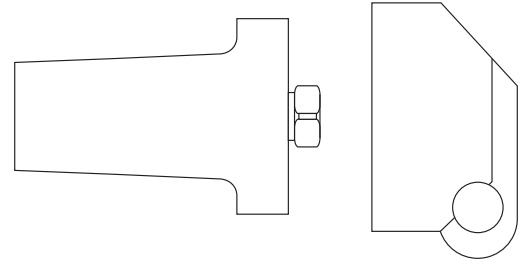
Catalog ID	HP Cleaning Pad	Drying Pad	180-Grit AL Oxide Abrasive Cloth
NP	–	–	–
1P	1	1	1

**NOTE:** Cable preparation and cleaning is critical for the install and operation of any medium voltage accessory. If you do not have access to suitable cleaning supplies, it is recommended a cleaning kit be included. It is critical that cleaning pads are not reused to clean other cables, so consider how many phases you will be preparing with the kit requested when selecting how many cleaning items are needed.

## Accessories

### Deadbreak Basic Insulating Plug

The Deadbreak Insulating Plug provides a means for insulating a 15/25kV Deadbreak Elbow or Bushing Extender. The Insulating Plug has an internal threaded contact that engages a threaded stud. The Deadbreak Insulating Plug is available with an Aluminum (600A) or Copper contact (900A). Each Insulating Plug has a molded-in hex nut used for installation. The hex nut also doubles as a capacitive test point. Included with every Insulating Plug is a low-profile EPDM rubber cap that is installed onto the molded-in hex nut. The cap features an eyelet for installation and removal and reduces stack height, which is important in environments where space is limited.

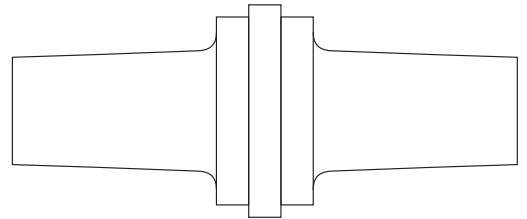


### A1 – Deadbreak Basic Insulating Plug and Cap

Catalog ID	Current Rating	Voltage	Interface	Epoxy Plug	Cap	Stud
625BIP	600A	15/25kV	IEEE 386 Interface 11	1	1	-
925BIP	900A	15/25kV	IEEE 386 Interface 11	1	1	-
625BIP-LS	600A	15/25kV	IEEE 386 Interface 11	1	1	1
925BIP-LS	900A	15/25kV	IEEE 386 Interface 11	1	1	1

### Deadbreak Connecting Plug

The Deadbreak Connecting Plug provides a means for connecting two or more 15/25kV Deadbreak Elbows together. The Deadbreak T Bodies can be configured as a splice or stacked onto a junction or apparatus bushing. The Deadbreak Connecting Plugs are available with an Aluminum (600A) or Copper contact (900A). Each plug is manufactured from EPDM rubber, fully shielded, and has an internal 5/16" hex for installation.



### A2 – Deadbreak Connecting Plug

Catalog ID	Current Rating	Voltage	Interface
625CP	600A	15/25kV	IEEE 386 Interface 11
925CP	900A	15/25kV	IEEE 386 Interface 11

### Deadbreak Threaded Stud

The Deadbreak Threaded Stud provides a means to bolt together IEEE 386 Deadbreak products together. The Stud is available in Aluminum (600A) or Copper (900A). Both studs are tin-plated.



### A3 – Deadbreak Threaded Stud

Catalog ID	Current Rating	Voltage
625STUD	600A	15/25kV
925STUD	900A	15/25kV



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