

600A Deadbreak Series

(15kV/25kV)

General Information

The 600-amp Deadbreak Elbow and accessories offer an easy and reliable method of terminating and splicing main feeder circuits. The Deadbreak Elbow is a fully shielded, molded rubber connector.

The Deadbreak Elbow is designed to terminate power cables with copper or aluminum conductors ranging in sizes from #2 AWG to 1250 kcm. It may be installed on any 600-Amp rated (aluminum) apparatus bushing that meets IEEE Standard 386 latest revision for Separable Insulated Connectors. Cable adapters accommodate power cable insulation diameters from 0.530 to 1.935 inches.

Interchangeability

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



Electrical Ratings MEETS OR EXCEEDS IEEE STANDARD 386 - Latest Revision

Continuous Current Rating (Aluminum Components)	600 amps
Voltage Class	25kV
Max Phase to Ground Voltage - Operating Voltage	15.2kV
Max Phase to Phase Voltage	26.3kV
Basic Impulse Level (1.2x50µs)	125kV
Corona Extinction (3pC)	19kV
AC Withstand Voltage (1 min.)	40kV
DC Withstand Voltage (15 min.)	78kV
24 Hour Overload	1,000 Amps rms
Short-Circuit Time Rating	25,000 Amps rms symmetrical for 0.17 sec. 10,000 Amps rms symmetrical for 3.00 sec.
100% Production Test	
Corona (3pC)	19kV
AC Withstand (1 min.)	40kV

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Features

1. Cable Adapter - Molded of peroxide cured EPDM rubber. Designed to accept specified cable insulation diameters. Radial pressure exerted on the cable insulation by the cable adapter precludes the presence of corona causing air voids along the cable adapter and cable insulation interface. The outside diameter of the cable adapter is constant for all cable adapter sizes.

2. Compression Connector -Aluminum (600 amp). Sized for the specific conductor size. Crimped with standard tools and dies.

3. Test Point -Designed to allow voltage indication when readout is made with suitable high impedance measuring devices. Elbows are available with and without this feature.

4. Insulating Plug Cap -Molded of conductive peroxide cured EPDM rubber providing a continuous outer shield for the elbow. Snaps tightly over the test point and onto the elbow body.

5. Epoxy Insulating Plug -Hex nut located on top of the insulating plug is used to tighten the plug when assembling the elbow.

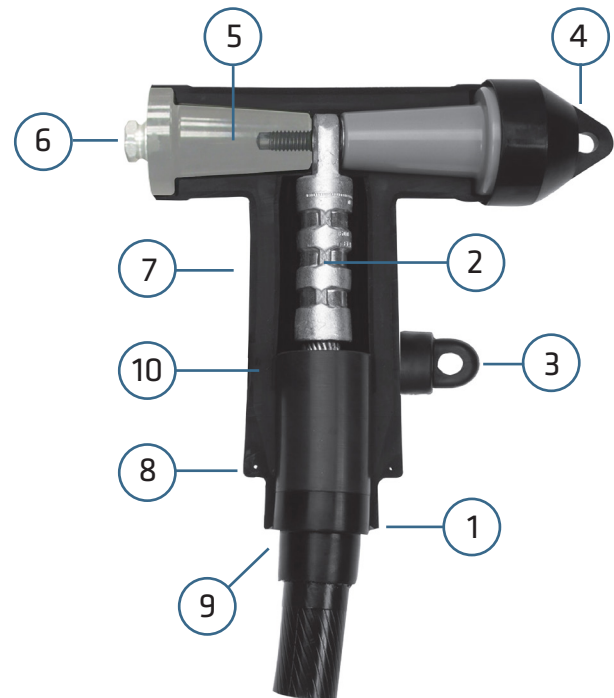
6. Hex Nut -One-inch hex head is used to tighten the connection. Can also be used as a capacitive test point. See #3 above.

7. Molded External Shield -Conductive, abrasion-resistant shield of peroxide cured EPDM rubber. Provides ground shield continuity and meets the requirements of IEEE Standard 592.

8. Drain Wire Tab -Designed to accept a single #14 AWG copper wire that can be inserted into the eye. Provides a static ground to ensure deadfront construction.

9. Stress Relief Cone -Designed into the cable adapter providing electrical stress relief at the point of terminating the power cable shield. Controls the electrical field entering the elbow.

10. EPDM Insulation -Peroxide cured EPDM rubber.



600A Deadbreak T-Bodies

Part No.	Cable Range Insulation Diameter (In)	5kV 100%	5kV 133% / 8kV 100%	8kV 133%	15kV 100%	15kV 133%	25kV 100%	25kV 133%
1525DB_E	0.530 - 0.675	#1 AWG - 2/0 AWG	#2 AWG - 2/0 AWG	#1 AWG - 1/0 AWG	#2 AWG	-	-	-
1525DB_F	0.640 - 0.840	3/0 AWG - 350 kcm	2/0 AWG - 250 kcm	1/0 AWG - 4/0 AWG	#2 AWG - 3/0 AWG	#2 AWG - 1/0 AWG	-	-
1525DB_G	0.760 - 0.950	350 kcm - 500 kcm	4/0 AWG - 350 kcm	4/0 AWG - 250 kcm	2/0 AWG - 250 kcm	#1 AWG - 3/0 AWG	#1 AWG - 2/0 AWG	-
1525DB_H	0.850 - 1.050	500 kcm	350 kcm - 500 kcm	250 kcm - 350 kcm	4/0 AWG - 350 kcm	2/0 AWG - 250 kcm	1/0 AWG - 4/0 AWG	#1 AWG - 1/0 AWG
1525DB_J	0.980 - 1.180	750 kcm	500 kcm	500 kcm	350 kcm - 500 kcm	250 kcm - 350 kcm	4/0 AWG - 250 kcm	1/0 AWG - 4/0 AWG
1525DB_K	1.090 - 1.310	750 kcm	750 kcm	750 kcm	500 kcm	350 kcm - 500 kcm	350 kcm - 500 kcm	3/0 AWG - 250 kcm
1525DB_L	1.180 - 1.465	750 kcm - 1000 kcm	750 kcm - 1000 kcm	750 kcm - 1000 kcm	750 kcm	500 kcm - 750 kcm	500 kcm	250 kcm - 500 kcm
1525DB_M	1.370 - 1.630	-	-	-	1000 kcm - 1250 kcm	1000 kcm	750 kcm	500 kcm - 750 kcm
1525DB_N	1.515 - 1.780	-	-	-	1250 kcm	1000 kcm - 1250 kcm	1000 kcm	750 kcm - 1000 kcm
1525DB_P	1.725 - 1.935	-	-	-	-	-	1250 kcm	1000 kcm - 1250 kcm

Note: Replace "_" with "CN" for Conentric Neutral Cable

Example: For a 1/0 AWG Compact 15kV 100% Cable with CN use body 1525DBCNF-600DB23

Note : Replace "_" with "CTS" for Copper Tape Shield or LC Shield Cables

Example: For a 500 kcm 25kV Stranded 133% Cable with LC or Copper Tape Shield use body 1525LBCTSB-600DB33

Remember to add the required lug to the body part number per the Connector Table.

Connector Code Chart

Part No.	Stranded / Compressed	Compact / Solid	Part No.	Stranded / Compressed	Compact / Solid
600DB22	#2	#1	600DB32	450	500/550
600DB23	#1	1/0	600DB33	500	600
600DB24	1/0	2/0	600DB34	550	650
600DB25	2/0	3/0	600DB35	600	700
600DB26	3/0	4/0	600DB36	650	750
600DB27	4/0	250	600DB38	700/750	900
600DB28	250	300	600DB39	800	-
600DB29	300	350	600DB40	900	1000
600DB30	350	400	600DB41	1000	-
600DB31	400	450	600DB44	1250	-

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