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BROCHURE

ComboT integral separable connectors

elastimold



One of the shortest stack heights in the industry—works in smaller cabinets and installs in tighter spaces

01 ComboT CETP installed

02 ComboT CCP installed

Short stack height
- Each combination elbow/connecting plug reduces stack height 2.67"

Eliminates blind assembly
- Simple connection system, reduces the chance of cross threading and is easier to line up and install

Fewer interfaces, and reduced inventory
- Combination elbow/reducing taps, connecting and bushing well plugs

Installs with your standard assembly tools
- Unique conductive component and uses standard 600 or 900 Series stud

Ensures proper installation torque
- Internal hex broach

IEEE 386 color-coded PBT interfaces
- Red for 15kV reducing tap and blue for 25kV reducing tap. Provides better visibility, seating indication, and facilitates installation of the mating component. Prevents like material from sticking for easier removal.

25kV Reducing tap with vents prevents partial-vacuum flashover







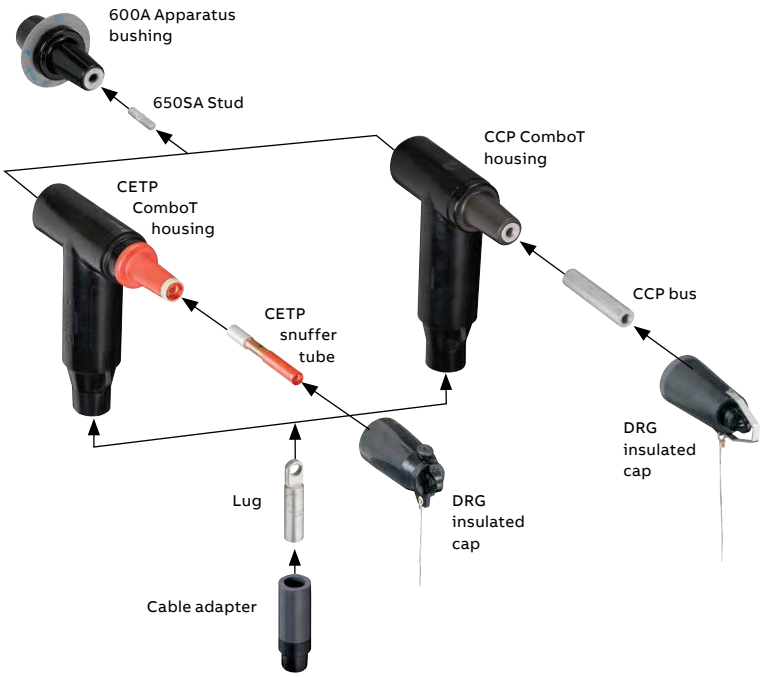




01



02



Simple design, simple assembly

The 15kV CETP and 15/25kV CCP simple design makes assembly quick and easy, utilizing a standard 5/8"–11 stud that is threaded into the equipment bushing. The hollow bore of the ComboT allows visual validation that the compression lug is positioned properly before the snuffer/bus is inserted and tightened. If preferred, the stud may be threaded first into the snuffer/bus. Again, the hollow bore of the ComboT allows visual validation that the compression lug is correctly positioned before proceeding. This is all accomplished with the same parts in a ComboT kit. There is no need to choose "Male Fastener" or "Female Fastener" when ordering.

Ratings					**Deadbreak with loadbreak reducing tap**			
Base catalog series Series	**655/656CETP Series 600A Deadbreak**		**675/676CETP Series 900A Deadbreak**		**K655/K656CETP Series 600A Deadbreak**		**K675/K676CETP Series 900A Deadbreak**	
Voltage class	15kV		15kV		25kV		25kV	
Max. phase-to-ground operating voltage	8.3kV		8.3kV		15.2kV		15.2kV	
Max. phase-to-phase operating voltage	14.4kV		14.4kV		26.3kV		26.3kV	
BIL—Impulse withstand (1.2 x 50 microsecond wave)	95kV		95kV		125kV		125kV	
AC—One-minute withstand voltage	34kV		34kV		40kV		40kV	
DC—Fifteen-minute withstand voltage	53kV		53kV		78kV		78kV	
Corona extinction level @ 3.0 pC sensitivity	11kV		11kV		19kV		19kV	
Interface/connection	**600A DB**	**200A LB**	**900A DB**	**200A LB**	**600A DB**	**200A LB**	**900A DB**	**200A LB**
Continuous current	600A	200A	900A	200A	600A	200A	900A	200A
Loadmake/loadbreak switching current	N/A	200A	N/A	200A	N/A	200A	N/A	200A
Symmetrical momentary current—10 cycle	25kA	10kA	25kA	10kA	25kA	10kA	25kA	10kA
Symmetrical one-time fault close current—10 cycle	N/A	10kA	N/A	10kA	N/A	10kA	N/A	10kA
Symmetrical momentary current—3 second	10kA	3.5kA	10kA	3.5kA	10kA	3.5kA	10kA	3.5kA

Ratings	**Deadbreak with connecting plug**		**Deadbreak with bushing well**	
Base catalog series Series	**K655K656 CCP Series 600A Deadbreak**	**K675K676 CCP Series 900A Deadbreak**	**K655K656 CBW Series 600A Deadbreak**	**K675K676 CBW Series 900A Deadbreak**
Voltage class	15/25/28kV	15/25/28kV	15/25/28kV	15/25/28kV
Max. phase-to-ground operating voltage	16.2kV	16.2kV	16.2kV	16.2kV
Max. phase-to-phase operating voltage	28.0kV	28.0kV	28.0kV	28.0kV
BIL—Impulse withstand (1.2 x 50 microsecond wave)	140kV	140kV	140kV	140kV
AC—One-minute withstand voltage	45kV	45kV	45kV	45kV
DC—Fifteen-minute withstand voltage	84kV	84kV	84kV	84kV
Corona extinction level @ 3.0 pC sensitivity	21.5kV	21.5kV	21.5kV	21.5kV
Continuous current	600A	900A	600A	900A
Symmetrical momentary current—10 cycle	25kA	25kA	25kA	25kA
Symmetrical momentary current—3 second	10kA	10kA	10kA	10kA

Installation

Installation sequence for Elastimold® ComboT 15kV reducing tap

Note: System needs to be de-energized before installation. See complete instruction sheet before initiating an installation.





01 Normal cable preparation.

02 Thread stud into bushing.

03. Lubricate and slide ComboT onto the cable

04 Push ComboT onto the bushing.

05 Insert snuffer tube into the bore of the ComboT and thread onto the bushing stud.

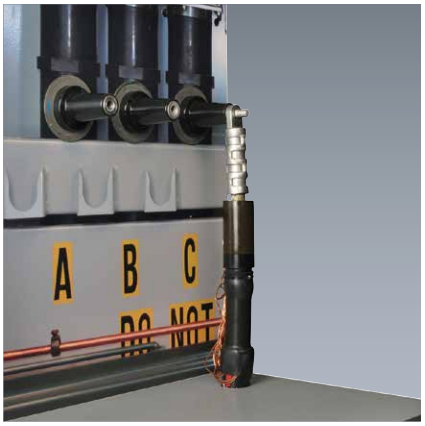
06 Insert 600AT and tighten.

07 Install the insulating cap with a hot line stick.

08 ComboT CETP installed.



01



02



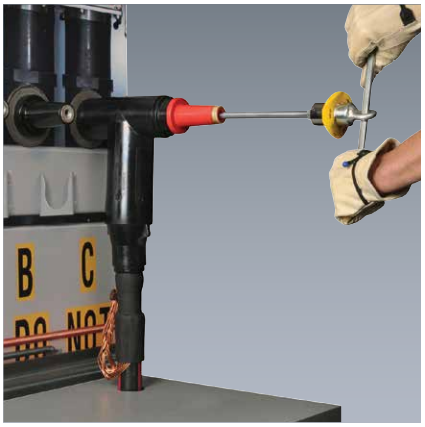
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06



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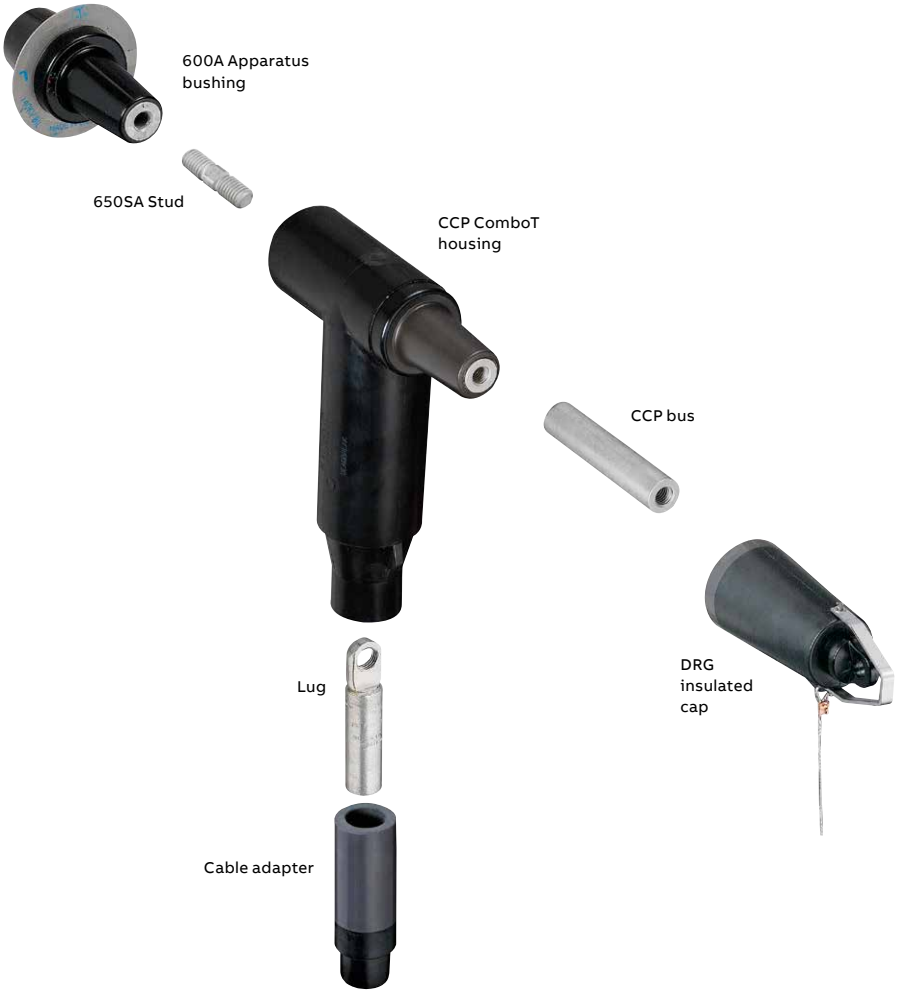


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Installation

Installation sequence for Elastimold® ComboT 15/25kV connecting tap

Note: System needs to be de-energized before installation. See complete instruction sheet before initiating an installation.





01 Thread stud into bushing.

02 Normal cable prep.

03. Lubricate and slide ComboT onto the cable and push ComboT onto the bushing.

04 Insert CCP bus into the bore of the ComboT and thread onto the bushing stud.

05 Insert 600ATM and torque to 50 to 60 ft.-lbs.

06 Install second T-body.

07 Insert BIP and torque to 50 to 60 ft.-lbs

08 Install the BIP cap.

09 ComboT CCP installed.



01



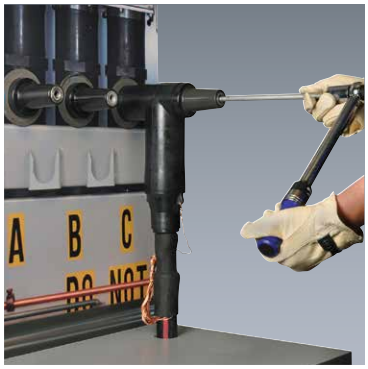
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03



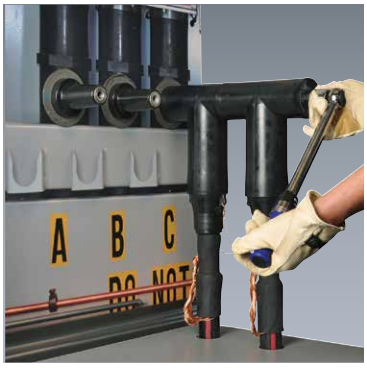
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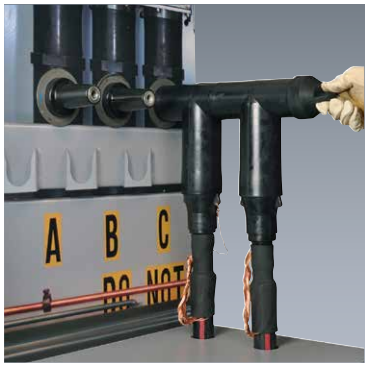
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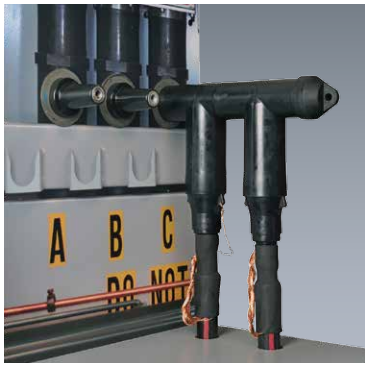
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08



09

ComboT integral separable connectors

Base part numbers

	kV Class	Test point	Continuous current, amperes	Connector: universal alum, copper or bi-metal	Basic ComboT elbow with bus and stud: Part number	Notes	Kit not to scale
ComboT elbow/ reducing tap plug	15	No	600	U-AL	655BCETP	—	
			900	CU	675BCETP	1	
			900	BM	675BCETP	1	
		Yes	600	U-AL	656BCETP	—	
			900	CU	676BCETP	1	
			900	BM	676BCETP	1	(No test point; aluminum shown)
	25	No	600	U-AL	K655BCETP	—	
			900	CU	K675BCETP	1	
			900	BM	K675BCETP	1	
		Yes	600	U-AL	K656BCETP	—	
			900	CU	K676BCETP	1	
			900	BM	K676BCETP	1	(Test point; aluminum shown)
ComboT elbow/ connecting plug	15/25	No	600	U-AL	K655BCCP	—	
			900	CU	K675BCCP	1	
			900	BM	K675BCCP	1	
		Yes	600	U-AL	K656BCCP	—	
			900	CU	K676BCCP	1	
			900	BM	K676BCCP	1	(No test point; aluminum shown)
ComboT elbow/ bushing well	15/25	No	600	U-AL	K655BCBW	—	
			900	CU	K675BCBW	1	
			900	BM	K675BCBW	1	
		Yes	600	U-AL	K656BCBW	—	
			900	CU	K676BCBW	1	
			900	BM	K676BCBW	1	(Test point; aluminum shown)

ComboT elbow with bus, stud, cable adapter and lug kit			ComboT elbow with bus, stud, cable adapter, lug and insulated cap kit		
Part number	**Notes**	**Kit not to scale**	**Part number**	**Notes**	**Kit not to scale**
655CETPW0X	—		655CETPW0XDRG	2	
675CETPW2X	1		675CETPW2XDRG	1, 2	
675CETPW5X	1, 2		675CETPW5XDRG	1, 2	
656CETPW0X	2		656CETPW0XDRG	2	
676CETPW2X	1, 2		676CETPW2XDRG	1, 2	
676CETPW5X	1, 2	(No test point; aluminum shown)	676CETPW5XDRG	1	(No test point; aluminum shown)
K655CETPW0X	2		K655CETPW0XDRG	2	
K675CETPW2X	1, 2		K675CETPW2XDRG	1, 2	
K675CETPW5X	1, 2		K675CETPW2XDRG	1, 2	
K656CETPW0X	2		K656CETPW0XDRG	2	
K676CETPW2X	1, 2		K676CETPW2XDRG	1, 2	
K676CETPW5X	1, 2	(Test point; aluminum shown)	K676CETPW5XDRG	1, 2	(Test point; aluminum shown)
K655CCPW0X	2		K655CCPW0XDRG	2	
K675CCPW2X	1, 2		K675CCPW2XDRG	1, 2	
K675CCPW5X	1, 2		K675CCPW5XDRG	1, 2	
K656CCPW0X	2		K656CCPW0XDRG	2	
K676CCPW2X	1, 2		K676CCPW2XDRG	1, 2	
K676CCPW5X	1, 2	(No test point; aluminum shown)	K676CCPW5XDRG	1	(No test point; aluminum shown)
K655CBWW0X	2		K655CBWW0XBWP	2	
K675CBWW2X	1, 2		K675CBWW2XBWP	1, 2	
K675CBWW5X	1, 2		K675CBWW5XBWP	1, 2	
K656CBWW0X	2		K656CBWW0XBWP	2	
K676CBWW2X	1, 2		K676CBWW2XBWP	1, 2	
K676CBWW5X	1, 2	(Test point; aluminum shown)	K676CBWW5XBWP	1, 2	(Test point; aluminum shown)

Ordering information

The following diagram shows how to construct a catalog number for a ComboT



Voltage indicator	
15kV CETP only	**(Blank)**
25kV CETP only	**K**
15/25kV	**K**

Gounding and/or sealing kit	
None	**(Blank)**
Shrink-fit jacket seal kit	**S**
Shrink-fit jacket seal kit with copper braid and constant force spring	**SG3**

Continuous current	
600Amp (base aluminum)	**65**
900Amp (copper)	**67**

Insulating cap	
None	**(Blank)**
With insulated cap	**DRG**
With bushing well plug	**BWP**

Capacitive test point indicator	
No test point	**5**
Includes test point	**6**

Connecting type	
Universal aluminum	**0**
Copper	**2**
Copper/aluminum bi-metal	**5**

Kit type	
Basic Combo T elbow reducing tap plug with stud	**BCETP**
Combo T elbow reducing tap plug with stud, cable adapter, lug, and insulated cap kit	**CETP**
Basic Combo T connecting plug with stud	**BCCP**
Combo T connecting plug with stud, cable adapter, and lug kit	**CCP**
Basic Combo T bushing well with stud	**BCBW**
Combo T bushing well with stud, cable adapter, and lug kit	**CBW**

Cable adapter sizing

Table W

Cable insulation dia. range

inches		millimiters		Symbol
min	max	min	max	for W
0.42	0.66	10.7	16.8	**D**
0.53	0.68	13.5	17.3	**E**
0.64	0.82	16.3	20.8	**F**
0.76	0.95	19.3	24.1	**G**
0.85	1.05	21.6	26.7	**H**
0.98	1.18	24.9	4.6	**J**
1.09	1.31	27.7	33.3	**K**
1.18	1.465	30	37.2	**L**
1.28	1.43	32.5	36.3	**LM**
1.37	1.63	34.8	41.4	**M**
1.55	1.78	39.4	45.2	**N**
1.725	1.935	43.8	49.1	**P**

Connector sizing

Table X

AWG or kcmil

Stranded/ compressed	Solid/ compact	Compact only	Code
—	2	25	**210**
2	1	35	**220**
1	1/0	50	**230**
1/0	2/0	—	**240**
2/0	3/0	70	**250**
3/0	4/0	95	**260**
4/0	250	125	**270**
250	300	—	**280**
300	350	150	**290**
350	400	185	**300**
400	450	240	**310**
450	500	—	**320**
500	600	300	**330**
650	750	400	**360**
750	900	—	**380**
900	1000	500	**400**
1000	—	—	**410**
—	1250	630	**420**
1250	—	—	**440**

Notes

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