

**600A, 35 kV Class  
Elbow Tap Plug (ETP)**



## APPLICATION

The Chardon Elbow Tap Plug (ETP) is used to convert a standard 600A deadbreak interface deadbreak interface of to a standard 200A loadbreak interface.

The ETP is ideal for applications where a 200A tap is desired for test or ground purposes. The ETP is also ideal for adding a 200A tap to an existing 600A T-body connector. The 200A interface allows for live test, visible ground, addition of a 200A tap, or installation of an elbow arrester.

The Chardon ETP meets all the requirements of IEEE standard 386, and is 200A three phase switching and three phase fault close rated. Furthermore, it incorporates an all copper current path, which provides reliable and consistent performance under all conditions

## PRODUCTION TESTS

Tests conducted in accordance with IEEE/ANSI Standard 386.

- / Minimum Corona Voltage Level – 26 kV
- / AC 1 Minute Withstand –50 kV

Tests conducted in accordance with Chardon manufacturing process requirements:

- / Physical Inspection
- / Periodic Dissection
- / Periodic X-ray Analysis

## VOLTAGE RATINGS

Voltage Class	35 kV
Max. Rating Phase to Phase	36.6 kV
Max. Rating Phase to Ground	21.1 kV
AC 1 Minute Withstand	50 kV
DC 15 Minute Withstand	103 kV
BIL and Full Wave Crest	150 kV
Minimum Corona Voltage Level	26 kV

## CURRENT RATINGS

	Description	Amperes
600A Interface	Continuous	600A rms
	Short Time	• 25,000A rms symmetrical for 0.17 s • 10,000A rms symmetrical for 3.0 s
200A Interface	Continuous	200A rms
	Switching	10 operations at 200 amps rms at 36.6 kV
	Fault Close	10,000A rms symmetrical at 36.6 kV for 0.17 s after 10 consecutive successful switching operations
	Short Time	• 10,000A rms symmetrical for 0.17s • 3,500A rms symmetrical for 3.0 s

Note :  
System design and protection must recognize the ratings of 200A interface.

# DETAILED COMPOSITION OF THE CHARDON ELBOW TAP PLUG (ETP)

## / LOCKING GROOVE

Locking groove assures proper installation by "locking" into elbow.

## / ARC SNUFFER ASSEMBLY

Arc quenching material extinguishes gas during loadbreak operations.

## / FINGER CONTACT

Tin plated copper contact provides a consistent current transfer during switching and fault close operations.

## / SEMICONDUCTING SHIELD

Precision molded peroxide cured semiconducting shield provides ground shield continuity and meets the requirements of IEEE Standard 592.

## / HEX BROACH

5/16" hex broach permits installation with torque tool.

200A INTERFACE

## / STOP RING

Limits piston and finger contact travel during fault close.

## / DRAIN WIRE TAB

Drain wire tabs provide a convenient point to connect drain wire to ensure grounding of the connector shield.

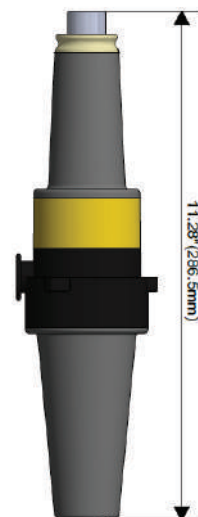
## / INSULATION LAYER

High quality peroxide cured EPDM Insulation is mixed and formulated in-house for complete control of rubber characteristics.

## / THREADED CONNECTION TO T-BODY

5/8" – 11 UNC copper threads provided connection to T-Body connector.

600A INTERFACE



## ORDERING INFORMATION

35 kV, 600A Elbow Tap Plug

35-ETP600





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