630A Deadbreak Bolted Tee Connector

DTB624S-24kV Applications

Installation

- No special tools, heating, taping, or potting are required
- Connector may be energised immediately after installation on its mating part
- Mates with DTS624S Bolted Tee Connector (See Catalog Section CN650032N)

Application

- For connection of polymeric cable to transformers, switchgear, motors and other equipment with a premoulded separable connector
- For indoor and outdoor installations
- System voltage up to 24 kV
- Continuous current 630 A
- Cable particulars:
  - Extruded polymeric cable (XLPE, EPR, etc.)
  - Copper or aluminum conductors
  - Semiconducting or metallic screens
- Conductor size: 24 kV 25-400 mm^2

Features

- Provides a fully screened and fully submersible Separable connection when mated with the proper bushing or plug
- Built-in capacitive test point allows for an easy check of the circuit status or installation of a fault indicator
- No minimum phase clearance requirements
- Mounting can be vertical, horizontal, or any angle in between.
- 100% factory tested.

Standards

- Meets the requirements of IEC 60502-4-2005 and GB/T 12706.4-2008 and HD 629.1 S2:2006

Quality assurance

- Our manufacturing facility is registered to ISO 9001-2000 by third party audit
- Required Production Tests
- Periodic X-Ray Analysis

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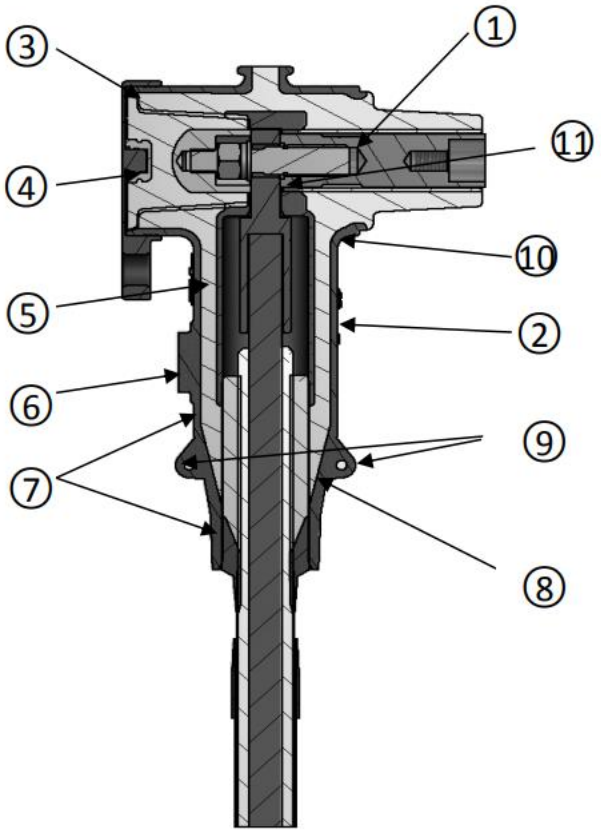
Features and detailed description



1. Clamping Screw and Connecting Rod
   Tin-plated copper screw secures the conductor contact to the bushing.
2. Insulation
   Moulded EPDM insulating rubber is formulated and mixed in-house to ensure high quality.
3. Basic Insulating Plug
   Moulded epoxy part has a threaded metal insert to accept the clamping screw.
4. Rubber Cap
   Moulded EPDM conducting rubber cap protects and earths the test point during normal operation.
5. Internal Screen
   Moulded EPDM conducting rubber screen controls electrical stress.
6. Capacitive Test Point (Optional)
   Provides a means to mount a fault indicator. A moulded EPDM conducting rubber cap provides a watertight seal.
7. Stress Relief
   The configuration of the outer screen and the cable adapter provide cable stress relief.
8. Cable Adapter
   The sized opening provides an interference fit to maintain a watertight seal and provides the initial cable stress relief.
9. Earthing Eyes
   Moulded into the external screen for connection of an earthing wire.
10. External Screen
    Moulded EPDM conducting rubber mates with the cable screen to maintain screen continuity and ensure that the assembly is at earth potential.
11. Conductor Contact
    Inertia welded bimetallic compression connector accepts copper or aluminum conductors.

Figure 1. 630 A, 24 kV Class DTB624S Deadbreak Tee Connector.

Packaging

- Supplied in a kit with all necessary parts, approximate weight 6.5 kg

Table1. Electrical Ratings

	DTB624S
Maximum System Voltage (U_m)	24 kV
Impulse	125 kV
AC Withstand (5 min.)	57 kV
Continuous Current	630 A
Short Circuit Withstand, 2 sec. (rms sym)	23 kA

Notess: Ratings are based on HD 629.1 S2:2006, IEC Standards and China GB standard do not reflect maximum capability.

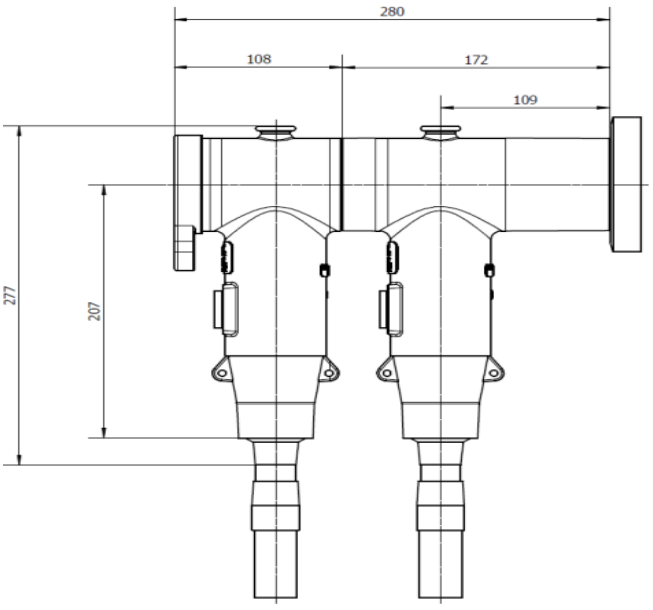


Figure 2. DTB624S Deadbreak Tee Connector dimensional information.

Kit contents

The complete kit includes:

- 3 Moulded Tee Housing;
- 3 Cable Adapter;
- 3 Conductor Contact;
- 3 Rod
- 1 Basic Accessories Kit;
- Installation Instructions.

Ordering Information

The complete catalog number for the tee connector is as below table2 and table3.

Ordering Example: For 24 kV cable, 300 mm^2 aluminum conductor, 32.8 mm insulation diameter, without test point, export package, specify DTSB24SGU300O3E.

Cable seal adapters are ordered separately.

NOTE: Bimetallic connectors can be used with aluminum or copper conductors.

Table 2

630A Bushing Tee, Copper Connector, Heat Shrink Trifurcation Kit
Selection List

Part Number	Insulation O.D. (mm)	Cross Section (mm^2)	HS Kit (Optional)
DTB624SAC25O3E	16.3—19.3	25	HS01
DTB624SBC35O3E	18.3—21.0	35	HS01
DTB624SBC50O3E	18.3—21.0	50	HS01
DTB624SCC70O3E	20.0—24.1	70	HS02
DTB624SCC95O3E	20.0—24.1	95	HS02
DTB624SDC120O3E	23.1—27.0	120	HS02
DTB624SEC150O3E	25.6—29.0	150	HS03
DTB624SFC185O3E	27.7—32.6	185	HS03
DTB624SFC240O3E	27.7—32.6	240	HS03
DTB624SGC300O3E	30.9—36.2	300	HS04
DTB624SHC400O3E	34.0—39.5	400	HS04
DTB624SHC500O3E	34.0—39.5	500	HS04

Table 3

630A Bushing Tee，Bi-metallic Connector，Heat Shrink Trifurcation Kit **Selection List**			
Part Number	**Insulation O.D. (mm)**	**Cross Section (mm^2)**	**HS Kit (Optional)**
DTB624SAU25O3E	16.3—19.3	25	HS01
DTB624SBU35O3E	18.3—21.0	35	HS01
DTB624SBU50O3E	18.3—21.0	50	HS01
DTB624SCU70O3E	20.0—24.1	70	HS02
DTB624SCU95O3E	20.0—24.1	95	HS02
DTB624SDU120O3E	23.1—27.0	120	HS02
DTB624SEU150O3E	25.6—29.0	150	HS03
DTB624SFU185O3E	27.7—32.6	185	HS03
DTB624SFU240O3E	27.7—32.6	240	HS03
DTB624SGU300O3E	30.9—36.2	300	HS04
DTB624SHU400O3E	34.0—39.5	400	HS04
DTB624SHU500O3E	34.0—39.5	500	HS04

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