

25kV 600A Deadbreak Series

WATT 25/600 Tee Connector

Features

- Manufactured from EPDM rubber, providing a fully screened separable connection when mated with proper bushing or plug
- Built-in capacitive test point allows an easy check of the circuit status or equip with a fault indicator
- Fully interchangeable in conformance with ANSI/IEEE 386-2006, Figure 11
- 100% factory tested

Design

1. External Screen

Moulded EPDM conductive rubber to ensure the connector touchable

2. Insulation

Moulded EPDM insulating rubber to ensure excellent electrical properties

3. Internal Screen

Moulded EPDM conductive rubber to control electrical stress

4. Two-headed Screw

To secure the conductor lug onto the bushing

5. Conductor Lug

To connect the cable conductor and bushing

6. Insulated Plug

Moulded epoxy plug as described by IEEE 386, Figure 11

7. Cable Adapter

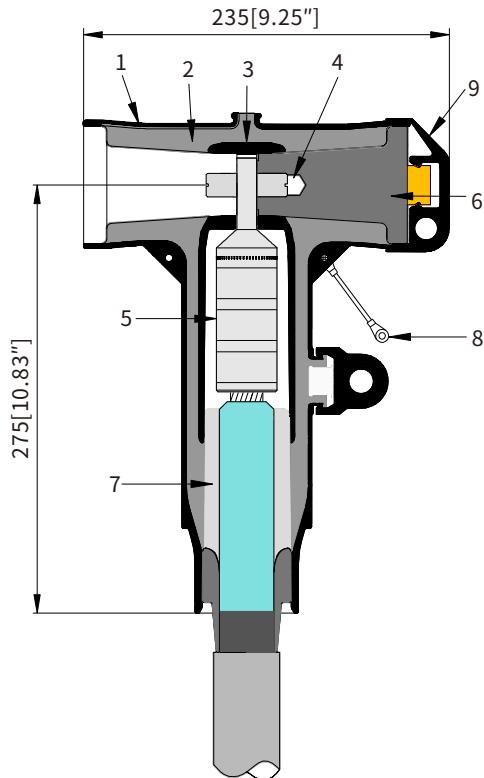
To provide initial stress relief and watertight seal

8. Earthing Wire

To earth the external screen for the connector

9. End Cap

Moulded EPDM conductive rubber to protect against dust



Dimension: mm

Ordering instruction

The ordering formula as followed:

1	2	3	4
WATT			

WATT-25/600


 Current rating: 600A;
 Voltage rating: 15=25kV;

Step 1

Determine the code for diameter over cable insulation from Table D;

Step 2

Determine the code for cable conductor size from Table C;

Step 3

Determine the code for cable conductor material, A=ALUMINIUM, C=COPPER;

Step 4

Determine the code for lug material, B=BIMETALLIC, C=COPPER;

Table D

Diameter over cable insulation

Code	Diameter over insulation (mm)	Diameter over insulation (inch)
A	15.49-19.69	0.610-0.775
B	17.78-22.99	0.700-0.905
C	21.21-26.92	0.835-1.060
D	24.77-29.85	0.975-1.175
E	27.81-32.39	1.095-1.275
F	31.5-37.08	1.240-1.460
G	35.43-40.13	1.395-1.580
H	37.97-42.8	1.495-1.685
J	40.89-45.47	1.610-1.790
K	43.82-49.15	1.725-1.935

Table C

Conductor Code (AWG or kcmil)	Cross-sectional Area		Conductor Diameter			
	Inches	mm ²	Stranded Conductors (inches)	Compressed Conductors (inches)	Compact Conductors (inches)	Solid Conductors (inches)
2	0.0521	33.62	0.292	0.283	0.268	0.258
1	0.0657	42.41	0.332	0.322	0.299	0.289
1/0	0.0829	53.49	0.373	0.362	0.336	0.325
2/0	0.1045	67.43	0.418	0.405	0.376	-
3/0	0.1318	85.01	0.470	0.456	0.423	-
4/0	0.1662	107.20	0.528	0.512	0.475	-
250	0.1964	127.00	0.575	0.558	0.520	-
350	0.2749	177.00	0.681	0.661	0.616	-
500	0.3927	253.00	0.813	0.789	0.736	-
600	0.4712	304.00	0.893	0.866	0.813	-
700	0.5498	355.00	0.964	0.935	0.877	-
750	0.5891	380.00	0.998	0.968	0.908	-
800	0.6283	405.00	1.031	1.000	0.938	-
900	0.7069	456.00	1.094	1.061	0.999	-
1000	0.7854	507.00	1.152	1.117	1.060	-

Ordering example:

The cable is 15kV, 1-core 3/0 kcmil copper conductor with core insulation diameter of 24mm. Order **WATT 15/600C3/0CC**.

Note:

Sealing or solderless grounding kits shall be ordered separately.

Insulated plug with capacitive test point is available upon request.

Please add "-X" for cable with copper wire shield without armour, like **WATT 15/600C3/0CC-X**.

Feel free to contact us for detailed information.