

# WCB 35/630

## Bolted-type Tee Connector

### 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 having a metal insert to thread to accept the two-headed screw

#### 7. Cable Adapter

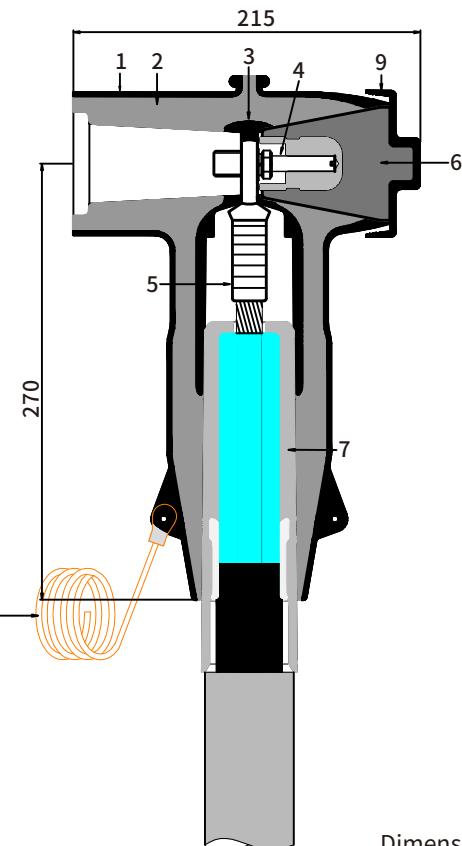
To provide initial stress relief and watertight seal

#### 8. Earthing Wire

To earth the external screen for the connector

#### 9. End Cap

Moulded EPDM conductive rubber to protect against dust



Up to 42kV  
12/20(24)kV  
12.7/22(24)kV  
18/30(36)kV  
19/33(36)kV  
21/36(42)kV  
26/35(40.5)kV

### Technical Data

Voltage Class	42kV	
Continuous Current	630A	1250A*
AC Withstand Voltage	117kV for 5min	
Partial Discharge	45kV,≤10pC	
Impulse Withstand Voltage (10 times for each polarity)	200kV	
Screen Resistance	≤5000Ω	

Note: \* refer to the condition when installed on an appropriate equipment bushing.

## Ordering instruction

The ordering formula as followed:

1	2	3	4
WCB			

### Step 1

Choose the system voltage and current: 35/630

### Step 2

Select the range from Table D that fits the diameter over cable insulation

### Step 3

Select the conductor code from Table C for the conductor size and type

### Step 4

Select the package. 1: 1pc/kit; 3: 3pcs/kit.

**Table D**

Diameter over cable insulation

Insulation Range Code	Diameter over cable insulation $\phi$ (mm)	
	Min.	Max.
A	30	32
B	32	35
C	35	38
D	38	40
E	40	42
F	42	45
G	45	48
H	48	51

**Table C**

Conductor Code

Conductor Cross-section (mm <sup>2</sup> )	Lug Code		
	Copper Lug (Hexagonal compression)	Aluminum Lug (Mechanical Bolted)	
50	03C	M1(AULZ25-95-16)	-
	04C		-
	05C		-
	06C		-
	07C		-
	08C		-
	09C		-
	10C		-
	11C		-
70	12C	M2(AULZ70-240-16)	-
			-
95		M3(AULZ185-400-16)	-
			-
120			-
			-
150			-
			-
185			-
			-
240			-
			-
300			-
			-
400			-
			-
500			-
			-

## Ordering example:

The cable is 35kV, 3\*95mm<sup>2</sup> copper conductor with core insulation diameter of 34mm. Order **WCB 35/630B05C3**.

### Note:

Sealing or solderless grounding kits shall be ordered separately.

Please add "-X" for cable with copper wire shield without armour, like WCB 35/630B05C3-X.

Feel free to contact us for detailed information.