

WCBK 35/630 Bolted-type Rear Connector for Coupling Connection

Application

For connection of dual cable arrangement to fit with WCB 35/630 Tee connector.

Features

- Manufactured from EPDM rubber, providing a fully screened separable connection when mated with the bushing of interface C
- 100% factory tested

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

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

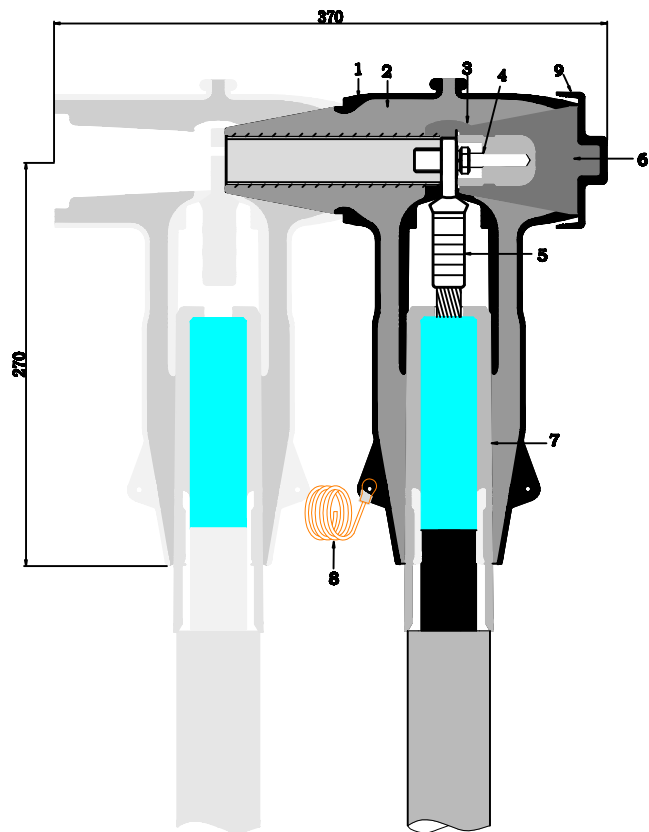
To provide initial stress relief and watertight seal

8. Earthing Wire

To earth the external screen for the connector

9. End Cap

Moulded EPDM conductive rubber to protect against dust



Dimension: mm

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
WCBK				

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

Ordering example:

The cable is 35kV, 3*95mm² copper conductor with core insulation diameter of 34mm. Order **WCBK 35/630B05C3.**

Note:

Sealing or solderless grounding kits shall be ordered separately.

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

Feel free to contact us for detailed information.