

# 630A Bolted-Type Interface C Series

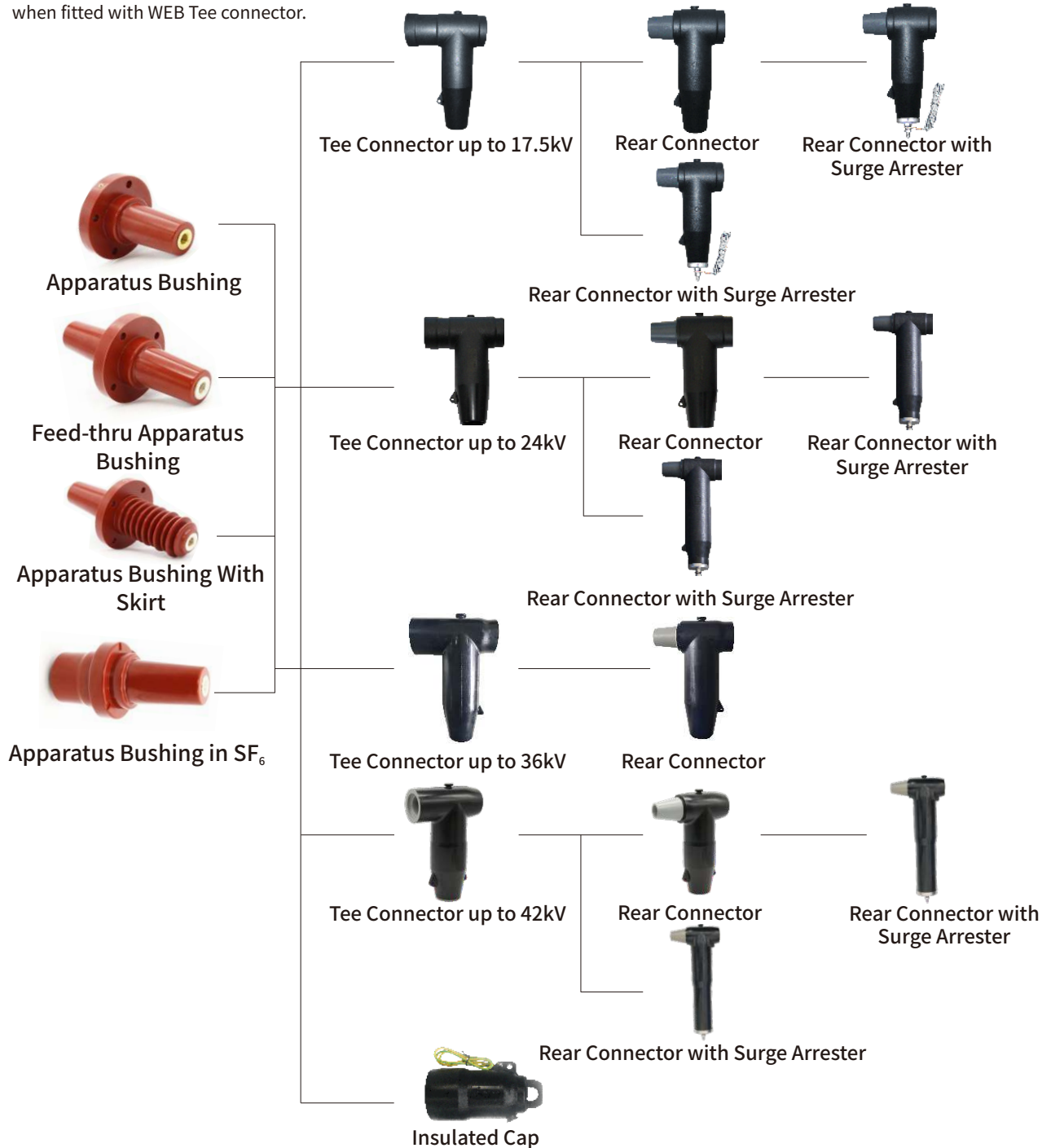
## Application

WEB Tee Connectors are used for connection of polymeric insulated cable to equipment, such as transformers, switchgear, motors with the bushing interface C per EN50180, EN50181

WEBK Rear Connectors are used for connector extension when fitted with WEB Tee connector.

## Features

- Manufactured from EPDM rubber, providing a fully screened separable connection when mated with proper bushing or plug
- Tested in compliance with HD629.1 and IEC60502.4
- 100% factory tested



Typical Components of 630A Bolted-type Separable Insulated Connector System

## 630A Apparatus Bushing

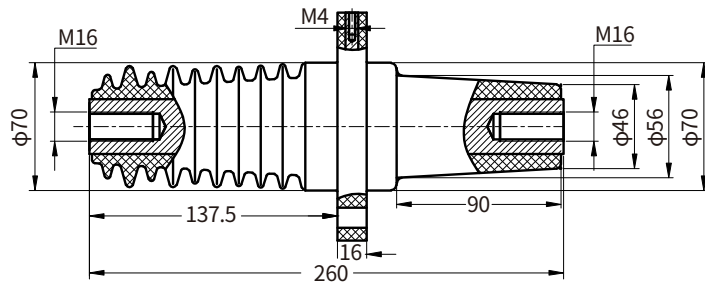
### Features

- Manufactured from high quality epoxy resin
- Meeting requirements of EN 50180 & EN 50181 type C
- 100% factory tested
- In compliance with GB/T 4109 (IEC60137 6.0)

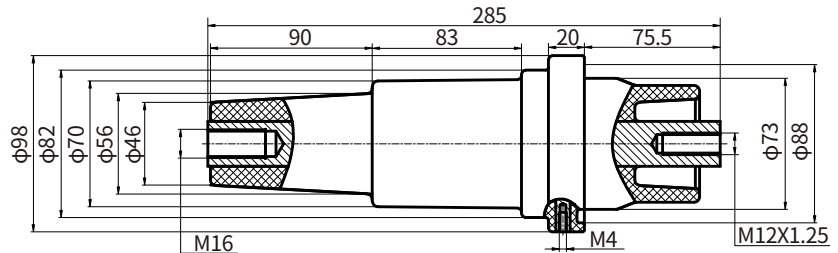
### Design



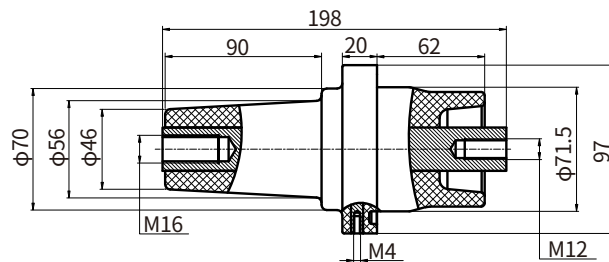
Apparatus Bushing With Skirt  
Part No. WECTG-DS2



Apparatus Bushing in SF6  
Part No. WECTG-CQ/285



Apparatus Bushing in SF6  
Part No. WECTG-FCQ



Dimension: mm

### Technical Data

<b>Voltage Class</b>	12kV
<b>Continuous Current</b>	630A
<b>AC Withstand Voltage</b>	42kV for 1min
<b>Partial Discharge</b>	13.2kV, $\leq 10$ pC
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	75kV

## 630A Apparatus Bushing

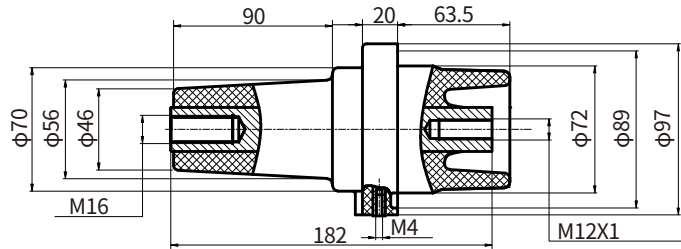
### Features

- Manufactured from high quality epoxy resin
- Meeting requirements of EN 50180 & EN 50181 type C
- 100% factory tested
- In compliance with GB/T 4109 (IEC60137 6.0)

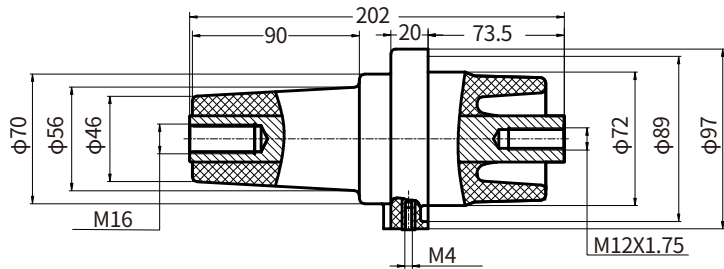
### Design



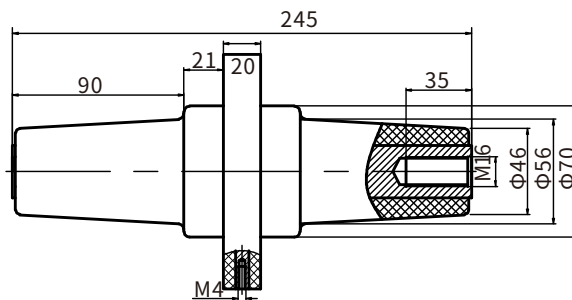
Apparatus Bushing in SF6  
Part No. WECTG-CQ/182



Apparatus Bushing in SF6  
Part No. WECTG-CQ/202



Feed-thru Apparatus Bushing  
Part No. WECTG-ST



Dimension: mm

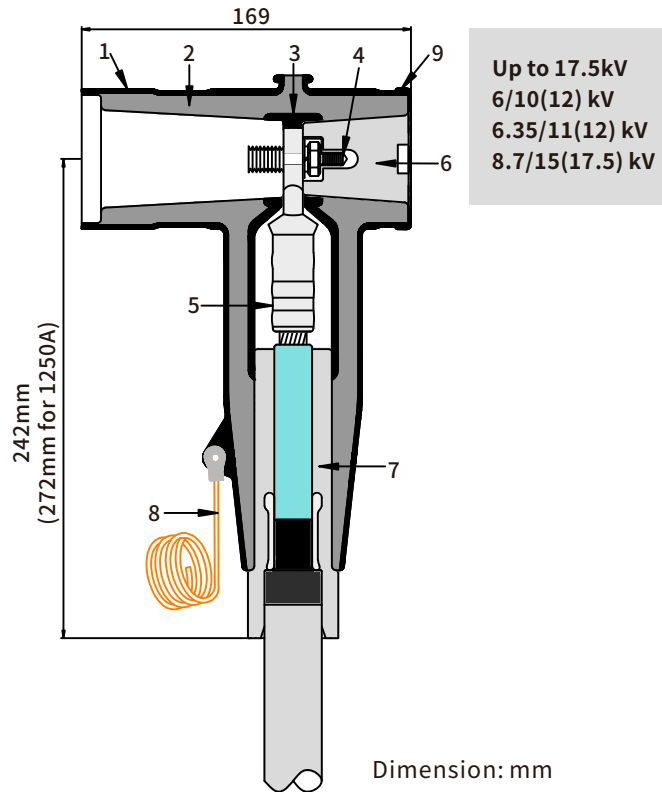
### Technical Data

Voltage Class	12kV	24kV
Continuous Current	630A	630A
AC Withstand Voltage	42kV for 1min	65kV for 1min
Partial Discharge	13.2kV, ≤10pC	26.4kV, ≤10pC
Impulse Withstand Voltage (10 times for each polarity)	75kV	125kV

# WEBIII 15/630 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



## Technical Data

Voltage Class	12kV	17.5kV
Continuous Current	Up to 1250A	Up to 1250A
AC Withstand Voltage	28.5kV for 5min	39kV for 5min
Partial Discharge	11kV, ≤10pC	15kV, ≤10pC
Impulse Withstand Voltage (10 times for each polarity)	95kV	95kV
Screen Resistance	≤5000Ω	≤5000Ω

## Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEBIII				

### Step 1

Choose the system voltage and current: 15/630

### 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	14	16
B	16	18
C	17	20
D	20	23
E	23	26
F	26	30
G	30	33
H	33	36
I	36	39
J	40	42

## Table C

Conductor Code

Conductor Cross-section (mm <sup>2</sup> )	Lug Code			
	Copper Lug (Hexagonal compression)	Aluminum Lug (Mechanical Bolted)		
25	01C	M1(AULZ25-95-16)	-	-
35	02C		-	-
50	03C		-	-
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	-	-	-
630	13C	-	-	-

## Ordering example:

The cable is 15kV, 3-core 95mm<sup>2</sup> copper conductor with core insulation diameter of 22mm. Order **WEBIII 15/630D05C3**.

### 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 WEBIII 15/630D05C3-X.

Feel free to contact us for detailed information.

## WEBKIII 15/630 Bolted-type Rear Connector for Coupling Connection

### 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**

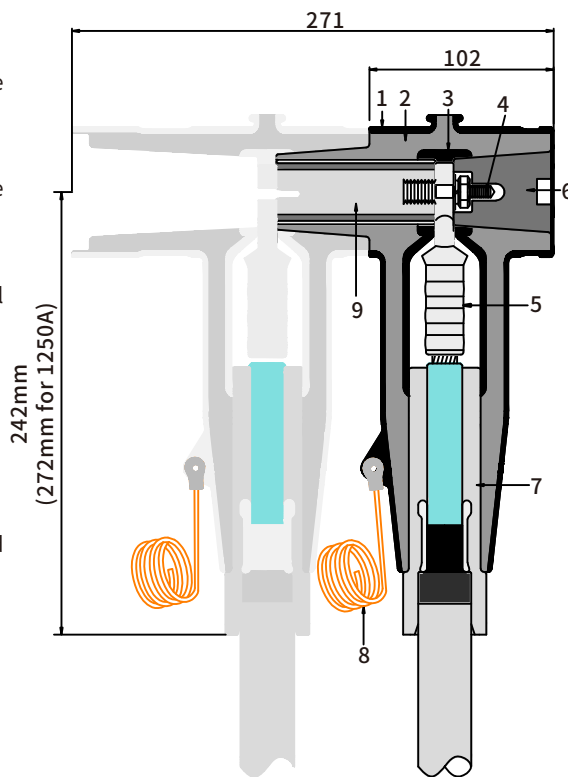
To provide initial stress relief and watertight seal

**8. Earthing Wire**

To earth the external screen for the connector

**9. Copper Connecting Pipe**

Connect the lugs between two cables



Up to 17.5kV  
6/10(12) kV  
6.35/11(12) kV  
8.7/15(17.5) kV

Dimension: mm

### Technical Data

<b>Voltage Class</b>	12kV	17.5kV
<b>Continuous Current</b>	Up to 1250A	Up to 1250A
<b>AC Withstand Voltage</b>	28.5kV for 5min	39kV for 5min
<b>Partial Discharge</b>	11kV, ≤10pC	15kV, ≤10pC
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	95kV	95kV
<b>Screen Resistance</b>	≤5000Ω	≤5000Ω

## Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEBKIII				

### Step 1

Choose the system voltage and current: 15/630

### 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 RangeCode	Diameter over cable insulation $\phi$ (mm)	
	Min.	Max.
A	14	16
B	16	18
C	17	20
D	20	23
E	23	26
F	26	30
G	30	33
H	33	36
I	36	39
J	40	42

## Table C

Conductor Code

Conductor Cross-section (mm <sup>2</sup> )	Lug Code			
	Copper Lug (Hexagonal compression)	Aluminum Lug (Mechanical Bolted)		
25	01C	M1(AULZ25-95-16)	-	-
35	02C		-	-
50	03C		-	-
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	-	-	-
630	13C	-	-	-

## Ordering example:

The cable is 15kV, 3-core 95mm<sup>2</sup> copper conductor with core insulation diameter of 22mm. Order **WEBKIII 15/630D05C3**.

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 WEBKIII 15/630D05C3-X.

Feel free to contact us for detailed information.

## MOA Separable Arrester for WEB(K)III 15/630

### Application

MOA arrester can provide protection for electrical components up to 17.5kV, such as transformers, equipments, cable and accessories, which may subject to over voltage and transients resulting from lightning and switching.

Designed to comply with the bolted-type Tee connector WEBIII 15/630 and tested in compliance with IEC 60099.4-2006, JB/T 8952.

### Design

#### 1. Connecting Interface

Interface designed to fit with the Tee connector WEB(K)III 15/630

#### 2. Internal Screen

Moulded EPDM conductive rubber to control electrical stress

#### 3. External Screen

Moulded EPDM conductive rubber ensure the connector touchable

#### 4. Insulation

Moulded EPDM insulating rubber to ensure excellent electrical properties

#### 5. Copper Connecting Pipe

Connect the lugs between cable and surge arrester

#### 6. Surge Arrester

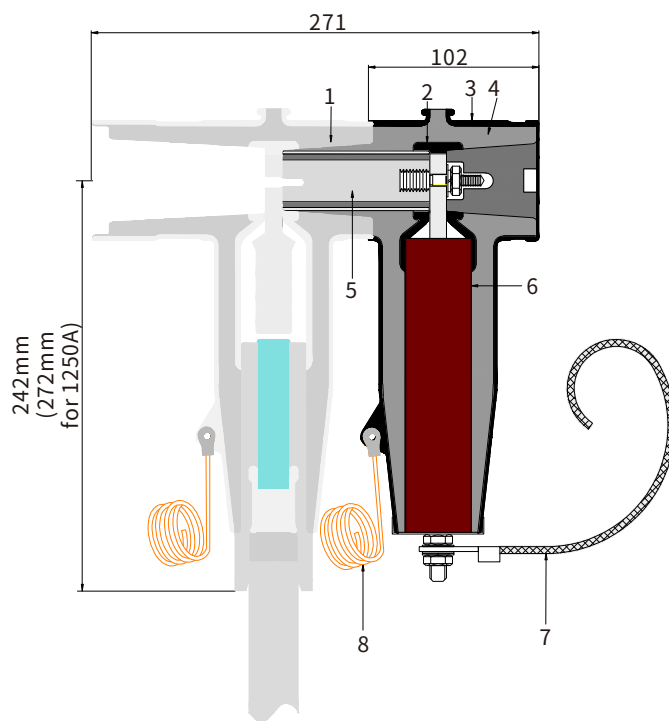
Metal oxide valve elements.

#### 7. Earth connection

The surge arrester is connected to the earth by an earth braid that manages short circuit currents.

#### 8. Earth Lead

Earth the external screen



Dimension: mm

### Electrical Data

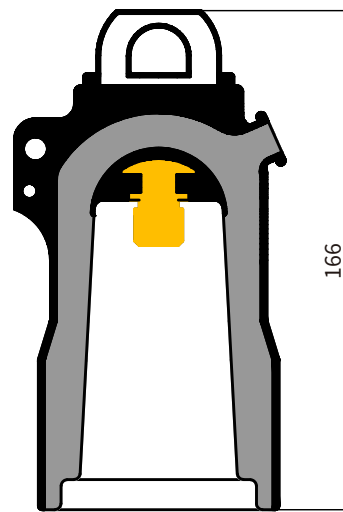
Item	WEBK YH5WZ-10/27	WEBK YH5WS-10/30	WEBK YH5WS-13/36	WEBK YH5WZ-17/45	WEBK YH5WR-17/45	WEBK YH5WS-17/50
System Nominal Voltage(kV)	6	6	10	15	15	15
Rated Voltage	10	10	13	17	17	17
Continuous Operation Voltage (kV)	8.0	8.0	10.4	13.6	13.6	13.6
Nominal Discharge Current(kA)	5	5	5	5	5	5
Steep Current Impulse Residual Voltage (kV)	≤31.0	≤34.6	≤41.3	≤51.8	≤51.8	≤57.5
Lightning Impulse Residual Voltage(kV)	≤27.0	≤30.0	≤36.0	≤45.0	≤45.0	≤50.0
Switching Impulse Residual Voltage(kV)	≤23.0	25.6	30.7	35	38.3	42.5
Long Duration Current Impulse withstand(A)	150	75	150	150	400	100
High Current Impulse Withstand (kA)	65	65	65	65	65	65



## WJM 15/630 630A Insulated Cap

### Features

- Manufactured from EPDM rubber
- Used to insulate, shield and seal the bushings of interface C
- Tested in compliance with IEC 60502.4
- 100% factory tested



Dimension: mm

### Technical Data

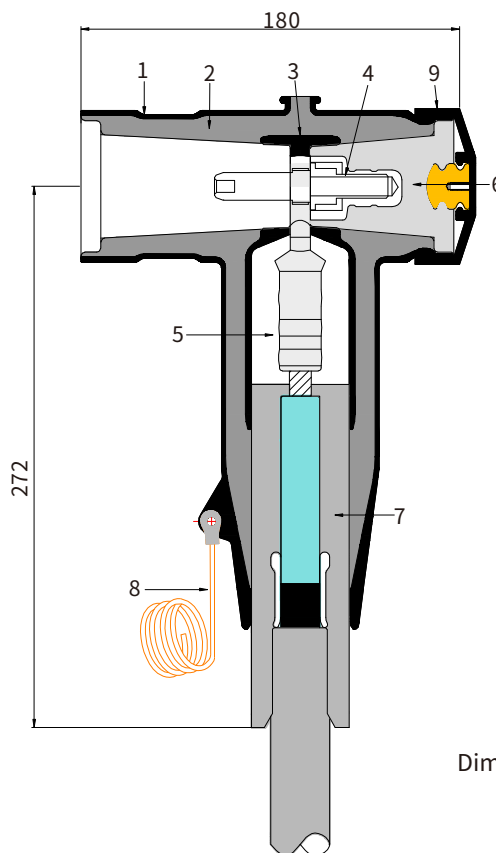
<b>Voltage Class</b>	15kV
<b>Continuous Current</b>	Up to 630A
<b>AC Withstand Voltage</b>	39kV for 5min
<b>Partial Discharge</b>	15kV, $\leq 10\text{pC}$
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	95kV
<b>Screen Resistance</b>	$\leq 5000\Omega$

# WEB 24/630

## 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 24kV  
 6/10(12) kV  
 6.35/11(12) kV  
 8.7/15(17.5) kV  
 12/20(24) kV  
 12.7/22(24) kV

Dimension: mm

### Technical Data

<b>Voltage Class</b>	24kV
<b>Continuous Current</b>	Up to 630A
<b>AC Withstand Voltage</b>	54kV for 5min
<b>Partial Discharge</b>	20kV, ≤10pC
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	125kV
<b>Screen Resistance</b>	≤5000Ω
<b>Screen Fault Current Initiation</b>	For solidly/unearthed /impedance earthed system

## Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEB				

### Step 1

Choose the system voltage and current: 24/630

### 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*	16	19
A	19	22
B	22	25
C	25	28
D	28	32
E	32	35
F	35	38
G	38	41
H	41	42.5

## Table C

Conductor Code

Conductor Cross-section (mm <sup>2</sup> )	Copper Lug (Hexagonal compression)
25	01C
35	02C
50	03C
70	04C
95	05C
120	06C
150	07C
185	08C
240	09C
300	10C
400	11C

## Ordering example:

The cable is 24kV, 3-core 95mm<sup>2</sup> copper conductor with core insulation diameter of 24mm. Order **WEB 24/630B05C3**.

### 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 WEB 24/630D05C3-X.

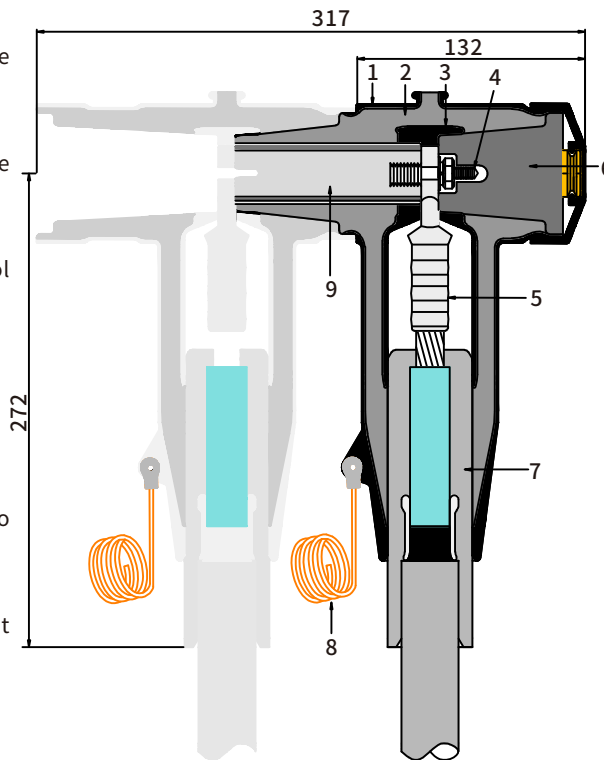
Feel free to contact us for detailed information.

## WEBK 24/630

### Bolted-type Rear Connector for Coupling Connection

#### 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. Copper Connecting Pipe  
To connect the cable lugs



Up to 24kV  
 6/10(12) kV  
 6.35/11(12) kV  
 8.7/15(17.5) kV  
 12/20(24) kV  
 12.7/22(24) kV

Dimension: mm

#### Technical Data

<b>Voltage Class</b>	24kV
<b>Continuous Current</b>	Up to 630A
<b>AC Withstand Voltage</b>	54kV for 5min
<b>Partial Discharge</b>	20kV, $\leq 10\text{pC}$
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	125kV
<b>Screen Resistance</b>	$\leq 5000\Omega$
<b>Screen Fault Current Initiation</b>	For solidly/unearthed /impedance earthed system

## Ordering instruction

The ordering formula as followed:

1	2	3	4
WEBK			

### Step 1

Choose the system voltage and current: 24/630

### 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*	16	19
A	19	22
B	22	25
C	25	28
D	28	32
E	32	35
F	35	38
G	38	41
H	41	42.5

## Table C

Conductor Code

Conductor Cross-section (mm <sup>2</sup> )	Copper Lug (Hexagonal compression)
25	01C
35	02C
50	03C
70	04C
95	05C
120	06C
150	07C
185	08C
240	09C
300	10C
400	11C

## Ordering example:

To fit with WEB24/630, the cable to mate is 24kV, 3-core 95mm<sup>2</sup> copper conductor with core insulation diameter of 24mm. Order **WEBK 24/630B05C3**.

### Note:

Sealing or solderless grounding kits shall be ordered separately.

Please add "-X" for cable with copper wire shield without armour, like WEBK 24/630D05C3-X.

Feel free to contact us for detailed information.

## MOA Separable Arrester for WEB(K) 24/630

### Application

MOA arrester can provide protection for electrical components up to 20kV, such as transformers, equipments, cable and accessories, which may subject to over voltage and transients resulting from lightning and switching.

Designed to comply with the bolted-type Tee connector WEB 24/630 and tested in compliance with IEC 60099.4-2006, JB/T 8952.

### Design

**1. Connecting Interface**

Interface designed to fit with the Tee connector WEB(K) 24/630

**2. Internal Screen**

Moulded EPDM conductive rubber to control electrical stress

**3. External Screen**

Moulded EPDM conductive rubber ensure the connector touchable

**4. Insulation**

Moulded EPDM insulating rubber to ensure excellent electrical properties

**5. Copper Connecting Pipe**

Connect the lugs between cable and surge arrester

**6. Surge Arrester**

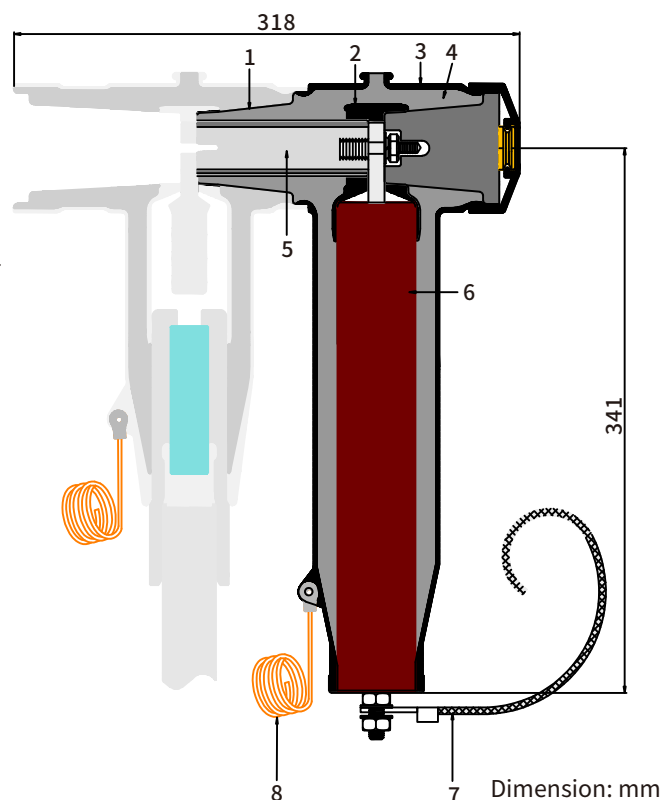
Metal oxide valve elements.

**7. Earth connection**

The surge arrester is connected to the earth by an earth braid that manages short circuit currents.

**8. Earth Lead**

Earth the external screen



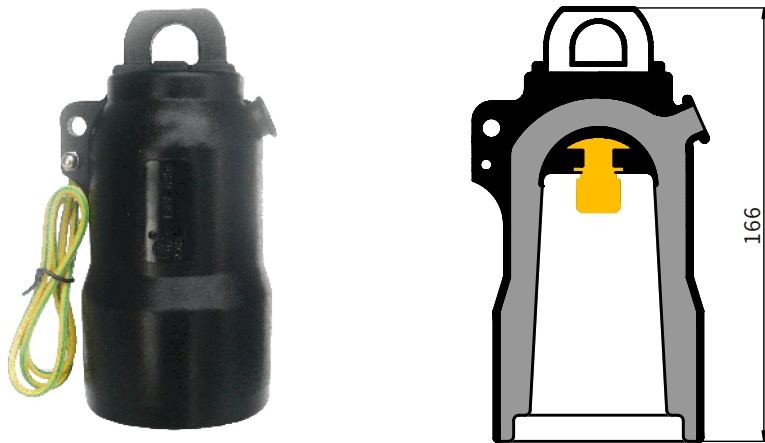
### Technical Data

Item	WEBK YH5WZ-26/66	WEBK YH5WZ-32/85	WEBK YH5WX-34/90	WEBK HY5ZW-34/85
<b>System Nominal Voltage(kV)</b>	20	20	20	20
<b>Rated Voltage</b>	26	32	34	34
<b>Continuous Operation Voltage (kV)</b>	20.8	25.6	27.2	27.2
<b>Nominal Discharge Current(KA)</b>	5	5	5	5
<b>Steep Current Impulse Residual Voltage (kV)</b>	≤76	≤95	≤104	≤95
<b>Lightning Impulse Residual Voltage(kV)</b>	≤66	≤85	≤90	≤85
<b>Switching Impulse Residual Voltage(kV)</b>	≤56	≤75	≤80	≤75
<b>Long Duration Current Impulse withstand(A)</b>	150	150	150	200
<b>High Current Impulse Withstand (kA)</b>	65	65	65	65

## WJM 24/630 630A Insulated Cap

### Features

- Manufactured from EPDM rubber
- Used to insulate, shield and seal the bushings of interface C
- Tested in compliance with IEC 60502.4
- 100% factory tested



Dimension: mm

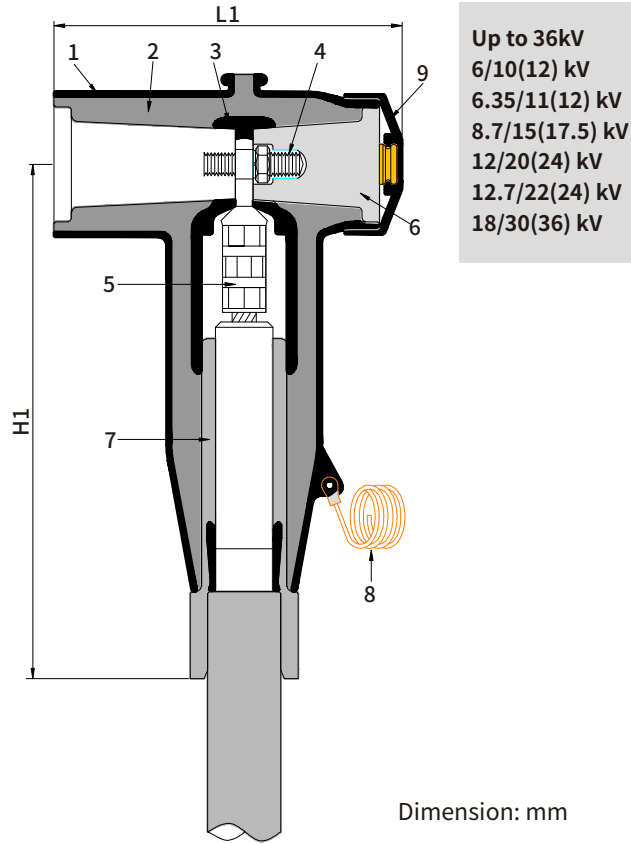
### Technical Data

<b>Voltage Class</b>	24kV
<b>Continuous Current</b>	Up to 630A
<b>AC Withstand Voltage</b>	54kV for 5min
<b>Partial Discharge</b>	20kV, $\leq 10\text{pC}$
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	125kV
<b>Screen Resistance</b>	$\leq 5000\Omega$

## W36CB 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



	W36CB1	W36CB2
L1(mm)	197±3	200±3
H1(mm)	245±5	300±5

### Technical Data

<b>Voltage Class</b>	36kV
<b>Continuous Current</b>	Up to 1250A
<b>AC Withstand Voltage</b>	81kV for 5min
<b>Partial Discharge</b>	30kV, ≤10pC
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	170kV
<b>Screen Resistance</b>	≤5000Ω



## Ordering instruction

The ordering formula as followed:

	1	2	3	4
W	36	CB		

### Step 1

Choose the highest system voltage: 36kV

### Step 2

Select the connector body size and insulation range code 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

Connector body size and insulation range code

Connector Body Size	Insulation Range Code (For Cable adaptor)	Applicable Diameter over cable insulation $\phi$ (mm)	
		Min.	Max.
1	A	20	23
	B	23	25
	C	25	28.5
	D	28	31.5
	E	31	35
	F	34	37
	G	36.5	39.5
	H	39	42.5
2	I	36.5	40
	J	39.5	43
	K	43	47.4
	L	47.4	49.5

## Table C

Conductor Code

Conductor Cross-section (mm <sup>2</sup> )	Lug Code					
	Copper Lug Code (Hexagonal compression)	Connector Body Size*	Aluminum Lug Code (Mechanical Bolted)		Connector Body Size*	
35	02C	1	M1 (AULZ25-95-16)	-	-	1
50	03C			-	-	
70	04C			-	-	
95	05C			-	-	
120	06C			-	-	
150	07C		M2 (AULZ70-240-16)	-	-	
185	08C			-	-	
240	09C			-	-	
300	10C			-	-	
400	11C			-	-	
500	12C	2	M4 (AULZ300-630-16)	-	-	2
630	13C			-	-	

## Ordering example:

The cable is 36kV, 3\*95mm<sup>2</sup> aluminum conductor with core insulation diameter of 29mm. Order **W36CB1DM13**.

### Note:

Sealing or solderless grounding kits shall be ordered separately.

Please add "-X" for cable with copper wire shield without armour, like W36CB1D05C3-X.

Feel free to contact us for detailed information.

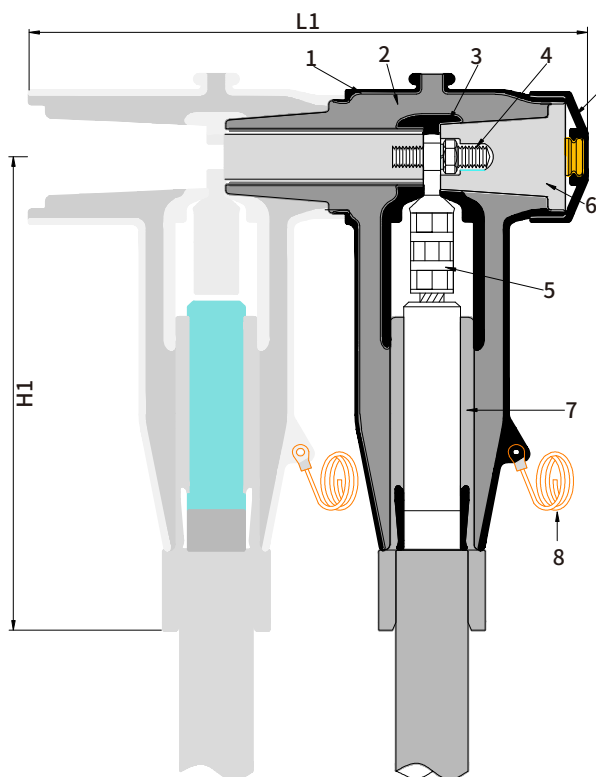
\*Please make sure the lug code mates with the connector body size if you need to repack the connector kits.

# W36CBK

## Bolted-type Rear 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 36kV  
6/10(12) kV  
6.35/11(12) kV  
8.7/15(17.5) kV  
12/20(24) kV  
12.7/22(24) kV  
18/30(36) kV

Dimension: mm

	W36CBK1	W36CBK2
L1(mm)	197±3	200±3
H1(mm)	245±5	300±5

### Technical Data

<b>Voltage Class</b>	36kV
<b>Continuous Current</b>	Up to 1250A
<b>AC Withstand Voltage</b>	81kV for 5min
<b>Partial Discharge</b>	30kV, ≤10pC
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	170kV
<b>Screen Resistance</b>	≤5000Ω

## Ordering instruction

The ordering formula as followed:

	1	2	3	4
W	36	CBK		

### Step 1

Choose the highest system voltage: 36kV

### Step 2

Select the connector body size and insulation range code 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

Connector body size and insulation range code

Connector Body Size	Insulation Range Code (For Cable adaptor)	Applicable Diameter over cable insulation $\phi$ (mm)	
		Min.	Max.
1	A	20	23
	B	23	25
	C	25	28.5
	D	28	31.5
	E	31	35
	F	34	37
	G	36.5	39.5
	H	39	42.5
2	I	36.5	40
	J	39.5	43
	K	43	47.4
	L	47.4	49.5

## Table C

Conductor Code

Conductor Cross-section (mm <sup>2</sup> )	Lug Code					
	Copper Lug Code (Hexagonal compression)	Connector Body Size*	Aluminum Lug Code (Mechanical Bolted)		Connector Body Size*	
35	02C	1	M1 (AULZ25-95-16)	-	-	1
50	03C			-	-	
70	04C			-	-	
95	05C			-	-	
120	06C			-	-	
150	07C		M2 (AULZ70-240-16)	-	-	
185	08C			-	-	
240	09C			-	-	
300	10C			-	-	
400	11C			-	-	
500	12C	2	M4 (AULZ300-630-16)	-	-	2
630	13C			-	-	

## Ordering example:

The cable is 36kV, 3\*95mm<sup>2</sup> aluminum conductor with core insulation diameter of 29mm. Order **W36CBK1DM13**.

### Note:

Sealing or solderless grounding kits shall be ordered separately.

Please add "-X" for cable with copper wire shield without armour, like W36CBK1D05C3-X.

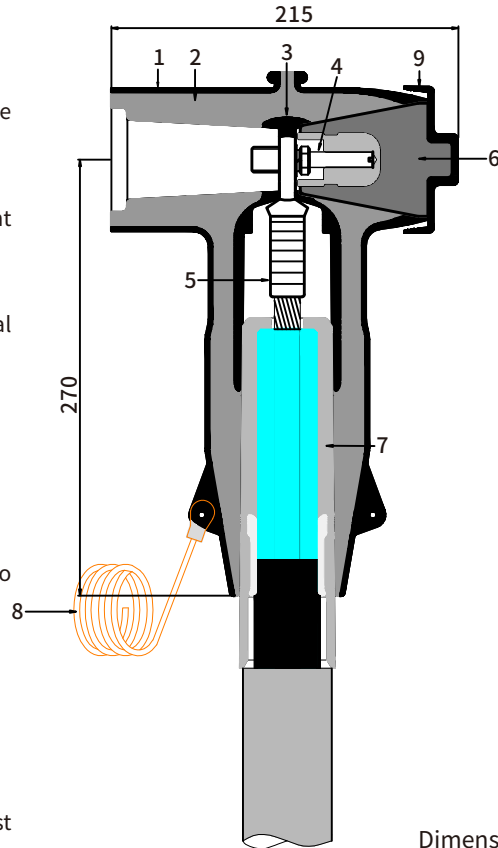
Feel free to contact us for detailed information.

\*Please make sure the lug code mates with the connector body size if you need to repack the connector kits.

## 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

Dimension: mm

### Technical Data

<b>Voltage Class</b>	42kV
<b>Continuous Current</b>	Up to 630A
<b>AC Withstand Voltage</b>	117kV for 5min
<b>Partial Discharge</b>	45kV, $\leq 10\text{pC}$
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	200kV
<b>Screen Resistance</b>	$\leq 5000\Omega$

## 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)	-	-
70	04C		M2(AULZ70-240-16)	-
95	05C			-
120	06C	-		
150	07C	-		
185	08C	-		
240	09C	-		M3(AULZ185-400-16)
300	10C	-		
400	11C	-		
500	12C	-	-	-

## 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.

## 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

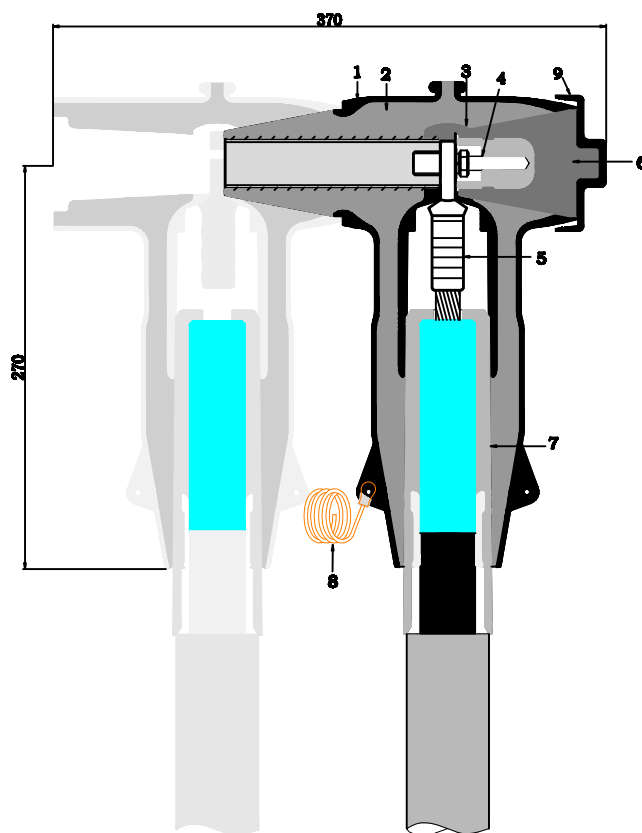
To provide initial stress relief and watertight seal

#### 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

<b>Voltage Class</b>	42kV
<b>Continuous Current</b>	Up to 630A
<b>AC Withstand Voltage</b>	117kV for 5min
<b>Partial Discharge</b>	45kV, $\leq 10\text{pC}$
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	200kV
<b>Screen Resistance</b>	$\leq 5000\Omega$

## 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 $\phi$ (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)	-	-
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\*95mm<sup>2</sup> 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.

## MOA Separable Arrester for WCB(K) 35/630

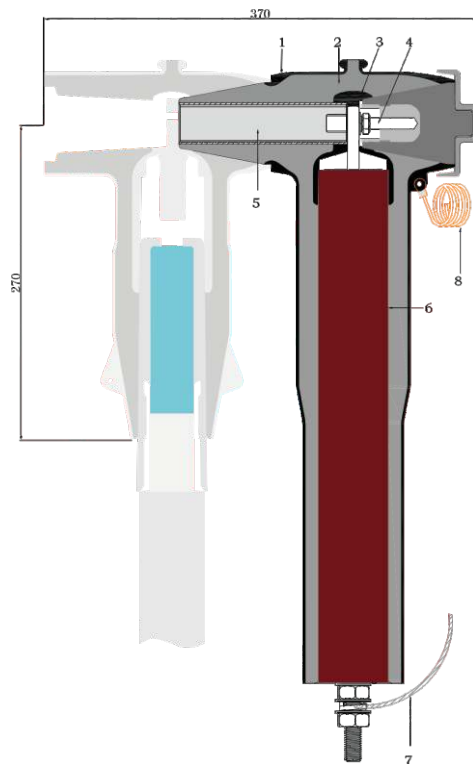
### Application

MOA arrester can provide protection for electrical components up to 35kV, such as transformers, equipment, cable and accessories, which may suffer from over voltage and transients resulting from lightning and switching.

Designed to comply with the bolted-type Tee connector WCB(K) 35/630 and tested in compliance with IEC 60099.4-2006 and JB/T 8952.

### Design

1. External Screen  
Moulded EPDM conductive rubber 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. Copper Connecting Pipe  
Connect the lugs between cable and surge arrester
6. Surge Arrester  
Metal oxide valve elements.
7. Earth connection  
The surge arrester is connected to the earth by an earth braid that manages short circuit currents.
8. Earth Lead  
Earth the external screen



### Technical Data

Dimension: mm

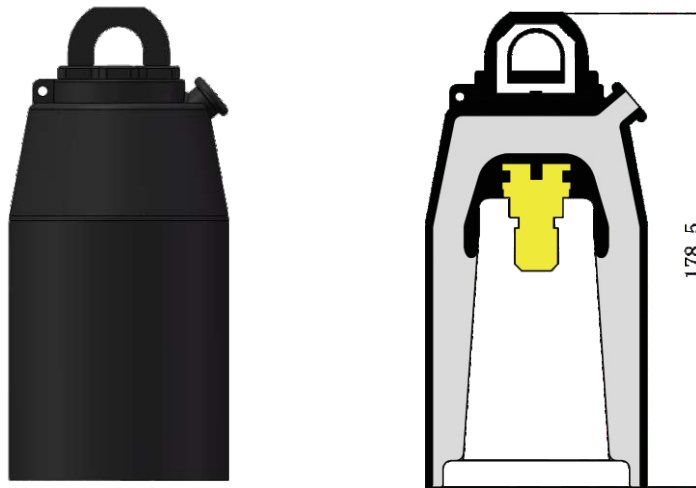
Item	WCBK YH5WZ-51/134/400	WCBK YH5WZ-51/134/600	WCBK YH5WZ-51/134/800
System Nominal Voltage(kV)	35	35	35
Rated Voltage	51	51	51
Continuous Operation Voltage (kV)	40.8	40.8	40.8
Nominal Discharge Current(kA)	5	5	5
Steep Current Impulse Residual Voltage (kV)	≤154	≤154	≤154
Lightning Impulse Residual Voltage(kV)	≤134	≤134	≤134
Switching Impulse Residual Voltage(kV)	≤114	≤114	≤114
Long Duration Current Impulse withstand(A)	400	600	800
High Current Impulse Withstand (kA)	100	100	100



## WCBJM 35/630 630A Insulated Cap

### Features

- Manufactured from EPDM rubber
- Used to insulate, shield and seal the bushings of interface C
- Tested in compliance with IEC 60502.4
- 100% factory tested



Dimension: mm

### Technical Data

<b>Voltage Class</b>	42kV
<b>Continuous Current</b>	Up to 630A
<b>AC Withstand Voltage</b>	117kV for 5min
<b>Partial Discharge</b>	45kV, $\leq 10\text{pC}$
<b>Impulse Withstand Voltage (10 times for each polarity)</b>	200kV
<b>Screen Resistance</b>	$\leq 5000\Omega$