WOER

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Important Notice

While Woer has made every effort to ensure the accuracy of the information in this catalog, Woer does not guarantee that it is errorless. Nor does Woer make any other warranty or guarantee that the information is accurate, reliable or current. Before using our products, you must evaluate them and determine if they are suitable for your intended application. Woer reserves all the rights to make any adjustments to the information contained at any time without notice.

WOER SHENZHEN WOER ELECTRIC TECHNOLOGY CO.,LTD.

Separable Connectors and Kits

STOCK CODE:002130

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2023 A1

WOER 沃尔电力 WOER ELECTRIC

Global
Solution Provider

PEOPLE. PRODUCT. POWER.

Shenzhen Woer Heat-shrinkable Material Co., Ltd (Stock Code: 002130) is a high-tech enterprise with headquarter in Shenzhen, China. Founded in 1998, Woer has undergone dynamic growth and become one of the largest manufacturers of heat & cold shrinkable insulation material.

The Woer brand has always been a guarantee for the supply of products and services. From product design and raw materials purchasing to final inspection and testing, Woer has a perfect quality assurance program covering the entire production process. So far, we have been successfully certified by ISO 9001, ISO 14001, ISO/TS 16949, UL, CSA, 3C, etc. Also, we’ ve got the Type Test certification from KEMA in 2007, and were authenticated by CNAS in 2011.

Woer Power Division, a major part of Woer Corporation, is well-known for its outstanding products and professional services. For more than 21 years, Woer Power Division has been developing, manufacturing and marketing a broad range of cable accessories for reliable power delivery. And it has made tremendous contribution to the innovation of product design and manufacture. All our experiences, together with a strong commitment to R&D, have prepared us to be a global leader in cable accessories industry.

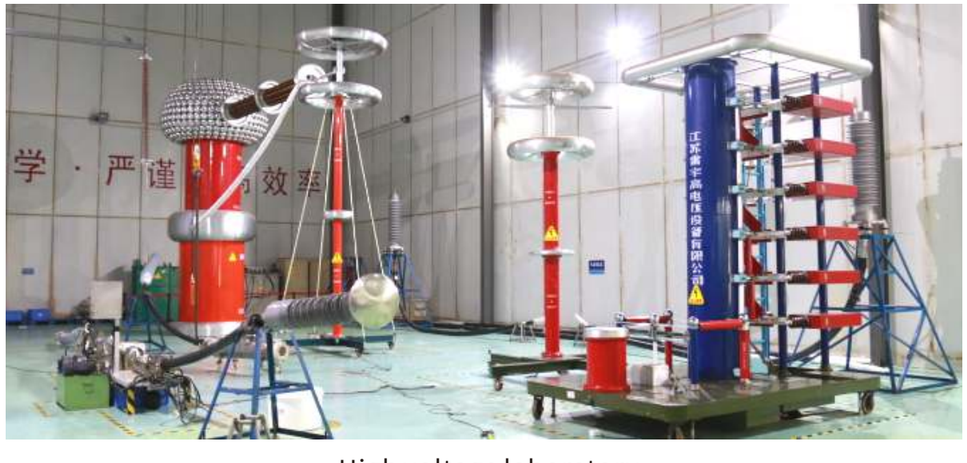
At Woer, we know this can be done.

Our Technology

We offer a full range of products for a wide variety of applications using heat shrink, cold shrink and cold applied technologies. Woer technology is based on specially formulated thermoplastic polymer materials or high quality silicone rubber. The compounds for these materials are designed, selected and mixed in our own factory. Sophisticated process controls during extrusion, injection moulding, cross-linking and expansion ensure high quality and reliability of our products.

Innovation is the soul of a high-tech enterprise. To achieve this, we established several material labs and two fully equipped high voltage test labs with AC voltage withstand up to 1200kV. All the labs were authenticated by CNAS in 2011. Also, electrical, material and mechanical engineers are working in cross functional teams focused on new technologies and product developments.

Materials Laboratory



High voltage laboratory

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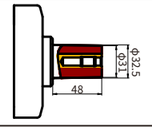
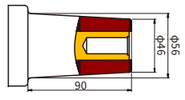
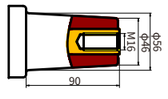
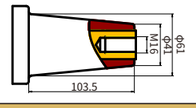
Separable Connectors Mated with EN50180&50181

Woer produces a range of separable Elbow, Straight and Tee connector kits. Our separable connectors are widely used in switchgears, transformers, cabinets and other electrical equipments. It is made of EPDM or silicone rubber with integrated field control. Woer adopts advanced triple-layer (a conductive inner layer, an insulation layer and a conductive outer layer) injection technique to guarantee the interface property to avoid gaps between layers and decrease partial discharge maximally. Our separable connectors are mainly delivered in 3-phase kit. Each kit contains all the necessary accessories.

Woer products have been designed and tested per IEC and other industry standard including:

Standard	Description
EN 50181	Plug-in type bushings above 1kV up to 52kV and from 250A to 2.5kA for equipment other than liquid filled transformers
EN 50180	Bushings above 1kV up to 36kV and from 250A to 3.15kA for liquid filled transformers
HD629.1	Test requirements on accessories for used on power cables of rated voltage from 3.6/6(7.2)kV up to 20.8/36(42)kV-Part 1:cables with extruded insulation
IEC 60502.4	Power cable with extruded insulation and their accessories for rated voltages from 1kV(U=1.2kV) up to 30kV(Um=36kV)-part 4: test requirements on accessories for cable with rated voltages from 6kV up to 30kV(Um=36kV)
IEC 60099	Metal oxide surge arresters without gaps for a.c. systems
JB/T 8952	Polymer-housed metal oxide surge arresters without gaps for a.c. systems

Brief instruction for bushing interface according to EN50180&50181

Bushing Interface		Interface Description	Standard
250A Series Apparatus Bushing		250A Plug-in	EN50180&50181 Interface type A
400A Series Apparatus Bushing		400A Plug-in	EN50180&50181 Interface type B
630A Series Apparatus Bushing		630A Bolted	EN50180&50181 Interface type C
630A Series Apparatus Bushing		630A Bolted	EN50180&50181 Interface type E

250A Plug-in Type Interface A Series

Application

For connection of polymeric insulated cable to equipment, such as transformers, switchgear, motors with the bushing of interface A per EN50180, EN50181

For connection of cable to cable when using the appropriate mating components

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 installation of a fault indicator
- 100% factory tested
- Tested in compliance with IEC60502.4

Apparatus Bushing

Elbow Connector

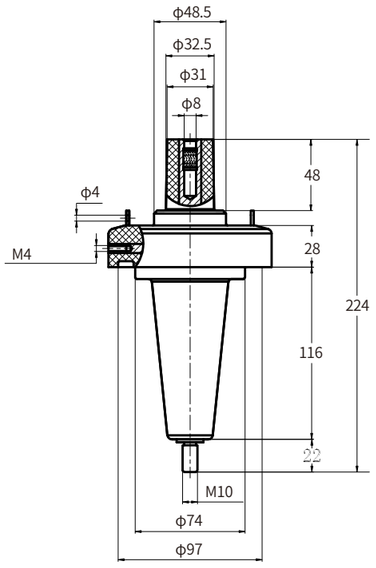
Straight Connector

Typical Components of 250A Plug-in Type Separable Insulated Connector System

WETGZ-24/250
250A Apparatus Bushing

Features

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



Dimension: mm

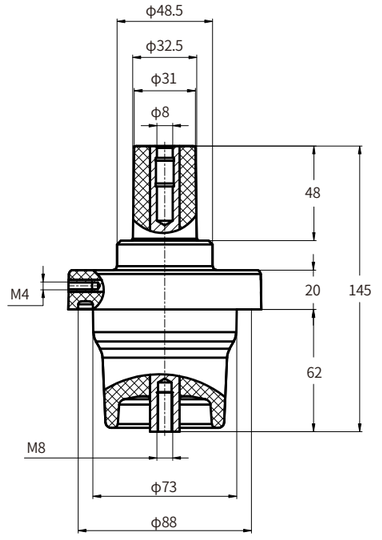
Technical Data

Voltage Class	12kV	24kV
Continuous Current	250A	250A
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

WEATG-CQ12/250
250A Apparatus Bushing

Features

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



Dimension: mm

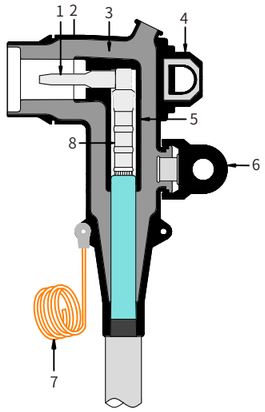
Technical Data

Voltage Class	12kV
Continuous Current	250A
AC Withstand Voltage	42kV for 1min
Partial Discharge	13.2kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	75kV

WEZT 24/250
250A Plug-in Type Elbow Connector

Design

1. Probe
Tinned copper probe to thread into the conductor lug with the supplied tool
2. External Screen
Moulded conductive EPDM rubber to ensure the connector touchable
3. Insulation
Moulded insulated EPDM rubber to ensure excellent electrical properties
4. Pulling eye
Provide a detent to position the stainless bail assembly
5. Internal Screen
Moulded conductive EPDM rubber to control electrical stress
6. Voltage test point
Provide means to check circuit status
7. Earthing Wire
To earth the external screen for the connector
8. Conductor Lug
To connect the cable conductor and probe



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

Technical Data

Voltage Class	12kV	17.5kV	24kV
Continuous Current	250A	250A	250A
AC Withstand Voltage	28.5kV for 5min	39kV for 5min	54kV for 5min
Partial Discharge	11kV,⩽10pC	15kV,⩽10pC	20kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	95kV	95kV	125kV
Screen Resistance	⩽5000Ω	⩽5000Ω	⩽5000Ω

Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEZT				

Step 1
Choose the system voltage and current: 24/250
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.

Ordering example:

The cable is 24kV, 3-core 95mm^2 copper conductor with cable insulation diameter of 22mm. Order WEZT 24/250C05C3.
Note:
Sealing or solderless grounding kits shall be ordered separately.
Please add "-X" for cable with copper wire shield without armour, like WEZT 24/250C05C3-X.
Feel free to contact us for detailed information.

Table D

Diameter over cable insulation

Insulation Range Code	Diameter over cable insulationϕ(mm)	
	Min.	Max.
A	16	18
B	17	21
C	20	24
D	23.5	27

Table C

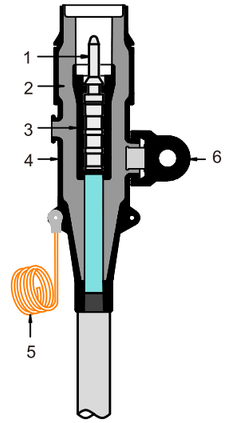
Conductor Code

Conductor Cross-section (mm^2)	Copper Lug (Hexagonal compression)	Bimetallic Lug (Hexagonal compression)
25	01C	01B
35	02C	02B
50	03C	03B
70	04C	04B
95	05C	05B
120	06C	06B

WEZC 24/250
250A Plug-in Type Straight Connector

Design

1. Special Lug
To connect the cable conductor and apparatus bushing
2. Insulation
Moulded insulated EPDM rubber to ensure excellent electrical properties
3. Internal Screen
Moulded conductive EPDM rubber to control electrical stress
4. External Screen
Moulded conductive EPDM rubber to ensure the connector touchable
5. Earthing Wire
To earth the external screen for the connector
6. Voltage test point
Provide means to check circuit status



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

Technical Data

Voltage Class	12kV	17.5kV	24kV
Continuous Current	250A	250A	250A
AC Withstand Voltage	28.5kV for 5min	39kV for 5min	54kV for 5min
Partial Discharge	11kV,⩽10pC	15kV,⩽10pC	20kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	95kV	95kV	125kV
Screen Resistance	⩽5000Ω	⩽5000Ω	⩽5000Ω

Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEZC				

Step 1
Choose the system voltage and current: 24/250
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.

Ordering example:

The cable is 24kV, 3-core 95mm^2 copper conductor with cable insulation diameter of 22mm. Order WEZC 24/250C05C3.
Note:
Sealing or solderless grounding kits shall be ordered separately.
Please add "-X" for cable with copper wire shield without armour, like WEZC 24/250C05C3-X.
Feel free to contact us for detailed information.

Table D

Diameter over cable insulation

Insulation Range Code	Diameter over cable insulationϕ(mm)	
	Min.	Max.
A	16	18
B	17	21
C	20	24
D	23.5	27

Table C

Conductor Code

Conductor Cross-section (mm^2)	Copper Lug (Hexagonal compression)	Bimetallic Lug (Hexagonal compression)
25	01C	01B
35	02C	02B
50	03C	03B
70	04C	04B
95	05C	05B
120	06C	06B

400A Plug-in Type Interface B Series

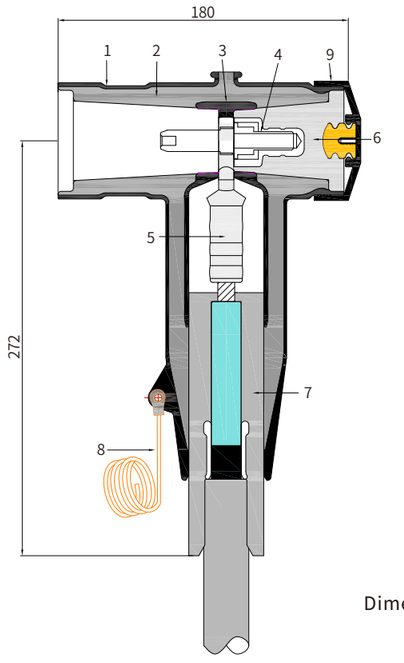
WEB 24/400
400A Plug-in Tee Connector

Application

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

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. Probe
Tinned copper probe to thread into the conductor lug with the supplied tool
5. Conductor Lug
To connect the cable conductor and bushing
6. Insulated Plug
Moulded epoxy plug with integrated threads to accept the probe tail
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

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

Technical Data

Voltage Class	24kV
Continuous Current	Up to 400A
AC Withstand Voltage	54kV for 5min
Partial Discharge	20kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	125kV
Screen Resistance	⩽5000Ω

Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEB				

Step 1
Choose the system voltage and current: 24/400
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 insulationϕ(mm)	
	Min.	Max.
A	19	22
B	22	25
C	25	28
D	28	32

Table C

Conductor Code

Conductor Cross-section(mm^2)	Copper Lug (Hexagonal compression)
25	01C
35	02C
50	03C
70	04C
95	05C
120	06C
150	07C
185	08C
240	09C

Ordering example:

The cable is 24kV, 3-core 95mm^2 copper conductor with core insulation diameter of 24mm. Order WEB 24/400B05C3.

Note:
Sealing or solderless grounding kits shall be ordered separately.
Insulated plug with capacitive test point is available upon request.
Please add "-X" for copper wire shield cable like WEB 24/400B05C3-X.
Feel free to contact us for detailed information.

630A Bolted-Type Interface C Series

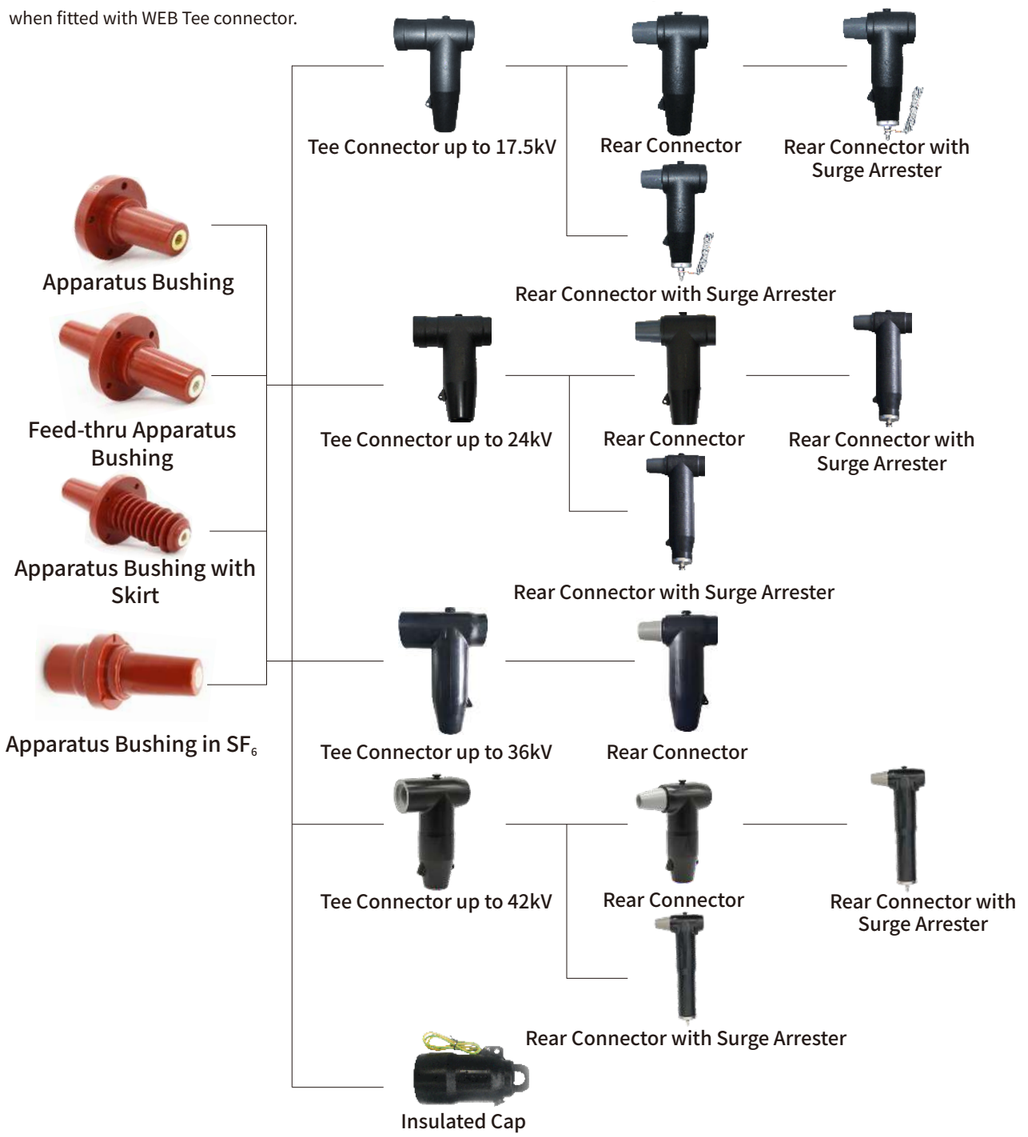
Application

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

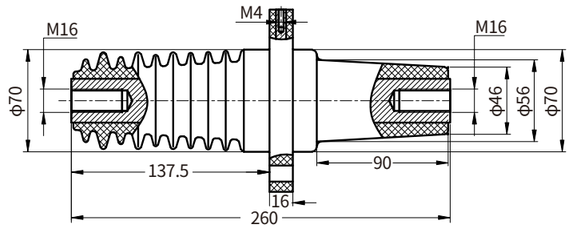
630A Apparatus Bushing

Features

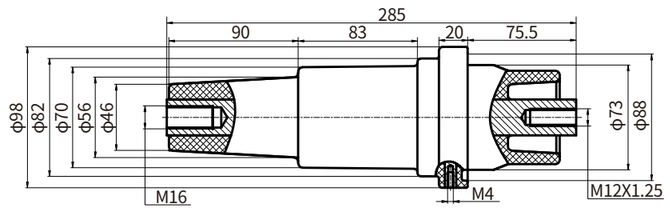
- Manufactured from high quality epoxy resin
- Meeting requirements of EN 50180 & EN 50181 type C
- 100% factory tested
- In compliance with GB/T 4109 (IEC60137 6.0)

Design

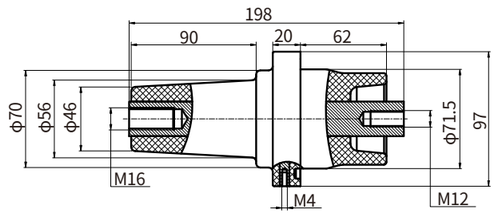
Apparatus Bushing with Skirt
Part No. WECTG-DS2



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



Apparatus Bushing in SF6
Part No. WECTG-FCQ



Dimension: mm

Technical Data

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

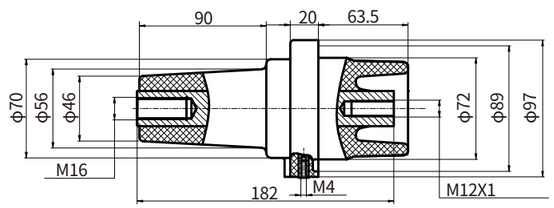
630A Apparatus Bushing

Features

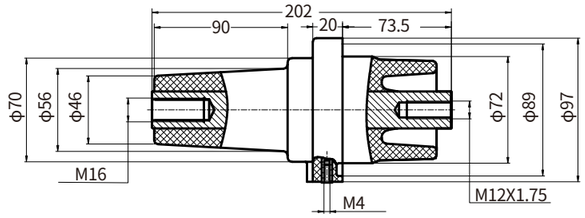
- Manufactured from high quality epoxy resin
- Meeting requirements of EN 50180 & EN 50181 type C
- 100% factory tested
- In compliance with GB/T 4109 (IEC60137 6.0)

Design

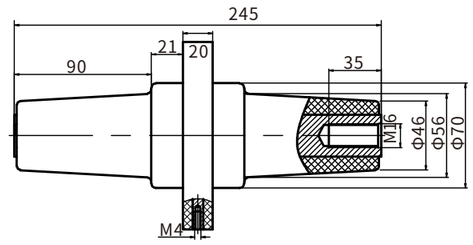
Apparatus Bushing in SF6
Part No. WECTG-CQ/182



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



Feed-thru Apparatus Bushing
Part No. WECTG-ST



Dimension: mm

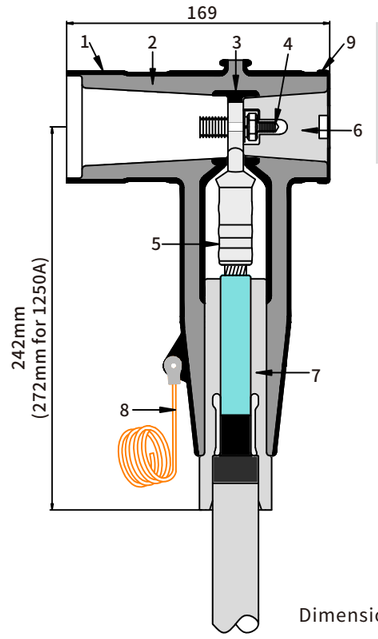
Technical Data

Voltage Class	12kV	24kV
Continuous Current	630A	630A
AC Withstand Voltage	42kV for 1min	65kV for 1min
Partial Discharge	15kV,⩽10pC	28.8kV,⩽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



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

Dimension: mm

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 RangeCode	Diameter over cable insulationϕ(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^2)	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	-	-	-

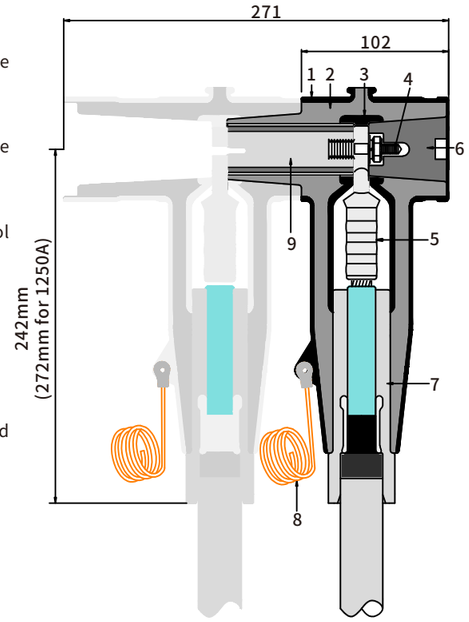
Ordering example:

The cable is 15kV, 3-core 95mm^2 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

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
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 insulationϕ(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^2)	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^2 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, equipment, cables 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

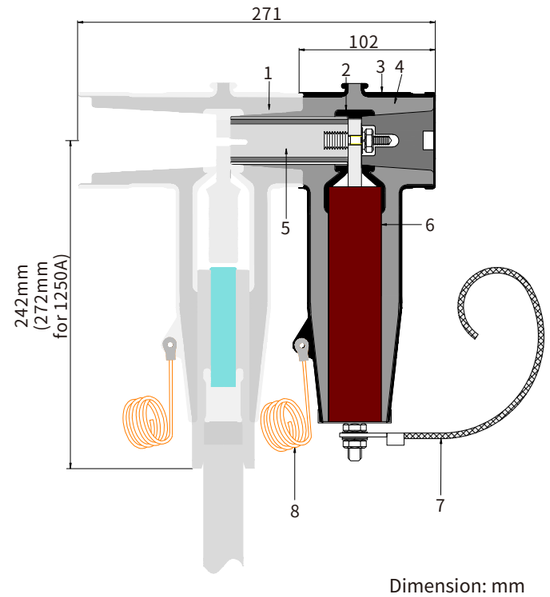
Metal oxide valve elements.

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

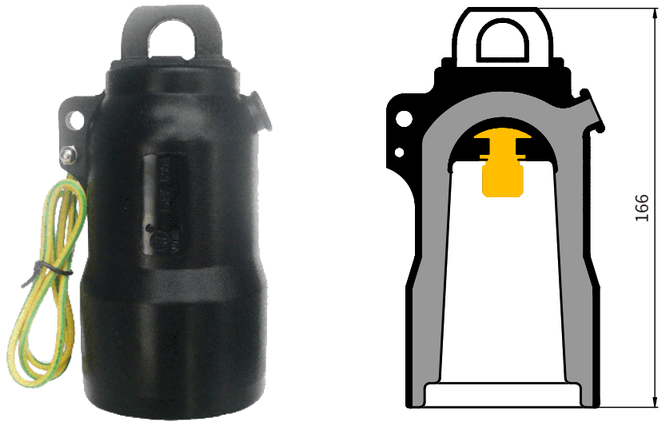
Electrical Data

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(kV)	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

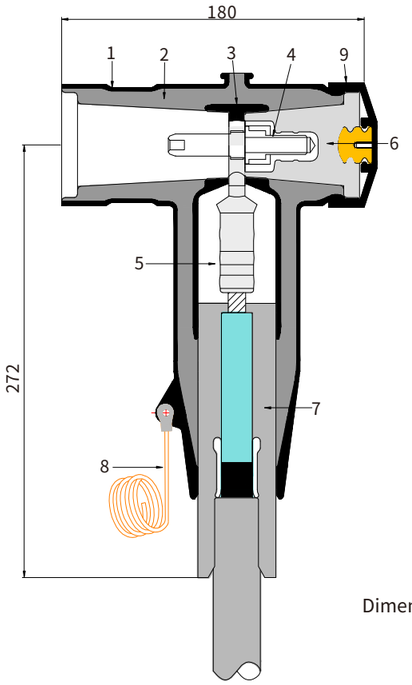
Technical Data

Voltage Class	15kV
Continuous Current	Up to 630A
AC Withstand Voltage	39kV for 5min
Partial Discharge	15kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	95kV
Screen Resistance	⩽5000Ω

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

Voltage Class	24kV
Continuous Current	Up to 1250A
AC Withstand Voltage	54kV for 5min
Partial Discharge	20kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	125kV
Screen Resistance	⩽5000Ω
Screen Fault Current Initiation	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 insulationϕ(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^2)	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:

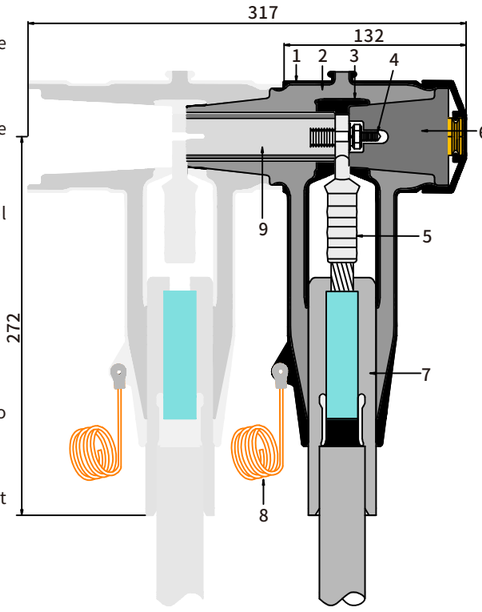
The cable is 24kV, 3-core 95mm^2 copper conductor with core insulation diameter of 24mm. Order WEB 24/630B05C3.

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

Voltage Class	24kV
Continuous Current	Up to 1250A
AC Withstand Voltage	54kV for 5min
Partial Discharge	20kV,≤10pC
Impulse Withstand Voltage (10 times for each polarity)	125kV
Screen Resistance	≤5000Ω
Screen Fault Current Initiation	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 insulationϕ(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^2)	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^2 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.

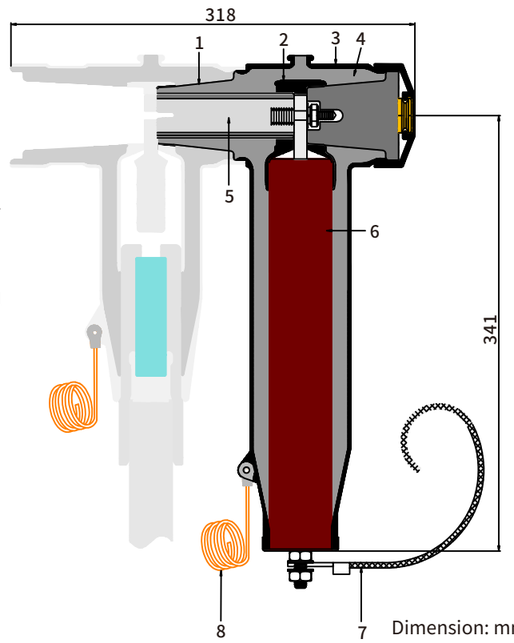
MOA Separable Arrester for WEB(K) 24/630

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



Dimension: mm

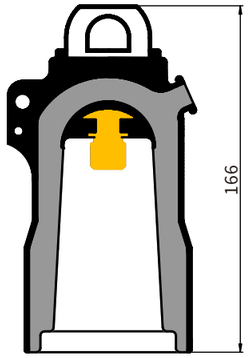
Technical Data

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

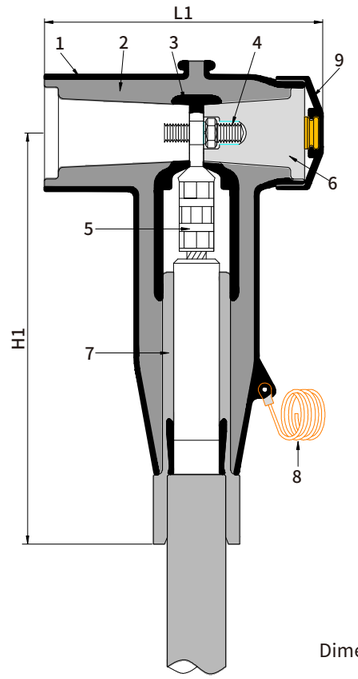
Technical Data

Voltage Class	24kV
Continuous Current	Up to 630A
AC Withstand Voltage	54kV for 5min
Partial Discharge	20kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	125kV
Screen Resistance	⩽5000Ω

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



Dimension: mm

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

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

Technical Data

Voltage Class	36kV
Continuous Current	Up to 1250A
AC Withstand Voltage	81kV for 5min
Partial Discharge	30kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	170kV
Screen Resistance	⩽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 insulationϕ(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^2)	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			M2 (AULZ70-240-16)	-	
95	05C				-	
120	06C		-		-	
150	07C		-		-	
185	08C		-		-	
240	09C		-		-	
300	10C		-	-	M4 (AULZ300-630-16)	2
400	11C		-	-		
500	12C	2	-	-		
630	13C		-	-		

Ordering example:

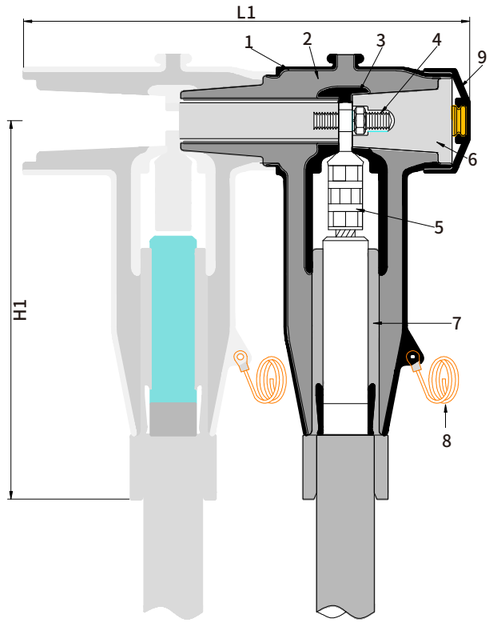
The cable is 36kV, 3*95mm^2 aluminum conductor with core insulation diameter of 29mm. Order W36CB1DM13.

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

Voltage Class	36kV
Continuous Current	Up to 1250A
AC Withstand Voltage	81kV for 5min
Partial Discharge	30kV,≤10pC
Impulse Withstand Voltage (10 times for each polarity)	170kV
Screen Resistance	≤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 insulationϕ(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^2)	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			M2 (AULZ70-240-16)	-	
95	05C				-	
120	06C		-		-	
150	07C		-		-	
185	08C		-		-	
240	09C		-		-	
300	10C		-	-	M4 (AULZ300-630-16)	2
400	11C		-	-		
500	12C	2	-	-		
630	13C		-	-		

Ordering example:

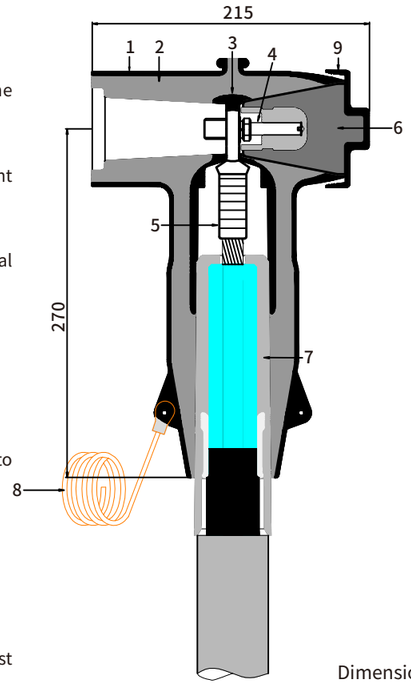
The cable is 36kV, 3*95mm^2 aluminum conductor with core insulation diameter of 29mm. Order W36CBK1D13.

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



Dimension: mm

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	Up to 1250A
AC Withstand Voltage	117kV for 5min
Partial Discharge	45kV,≤10pC
Impulse Withstand Voltage (10 times for each polarity)	200kV
Screen Resistance	≤5000Ω

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 insulationϕ(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*95mm^2 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.

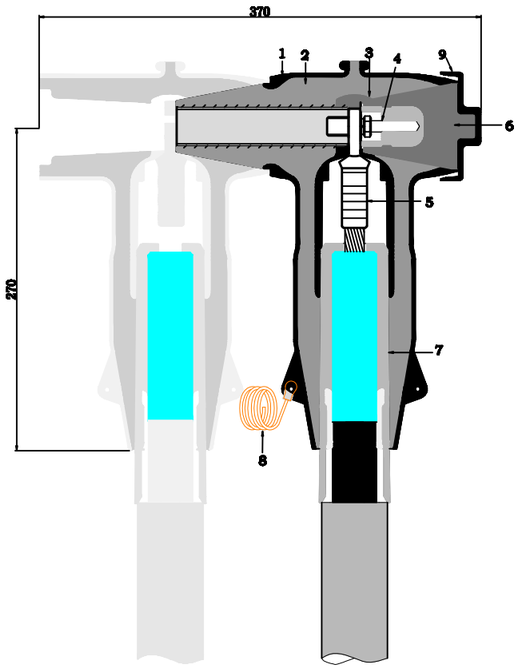
Features

- 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

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

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

Ordering example:

The cable is 35kV, 3*95mm^2 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.

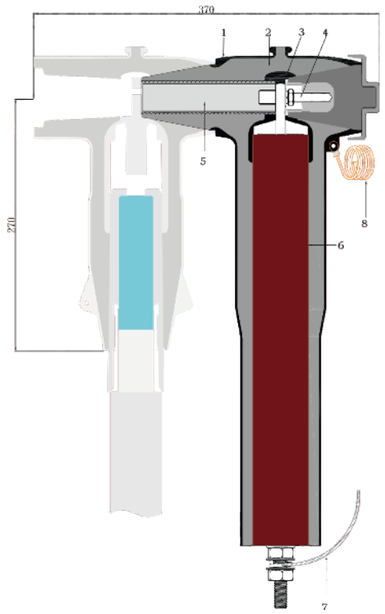
MOA Separable Arrester for WCB(K) 35/630

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(kV)	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

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

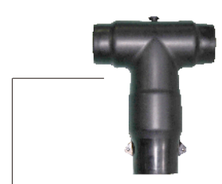
630A Bolted-Type Interface E Series

Application

WEB Tee Connectors are used for connection of polymeric insulated cable to equipment, such as transformers, switchgear, motors with the bushing interface E 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 IEC60502.4
- 100% factory tested.



Tee Connector up to 42kV

Rear Connector

Rear Connector with Surge Arrester

Feed-thru Apparatus Bushing

Rear Connector with Surge Arrester

Insulated Cap

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

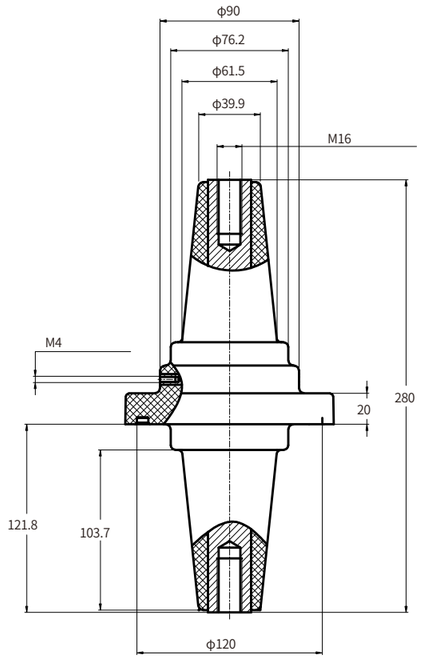
WEETG-ST
630A Apparatus Bushing

Features

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

Design

Feed-thru Apparatus Bushing
Part No. WEETG-ST



Dimension: mm

Technical Data

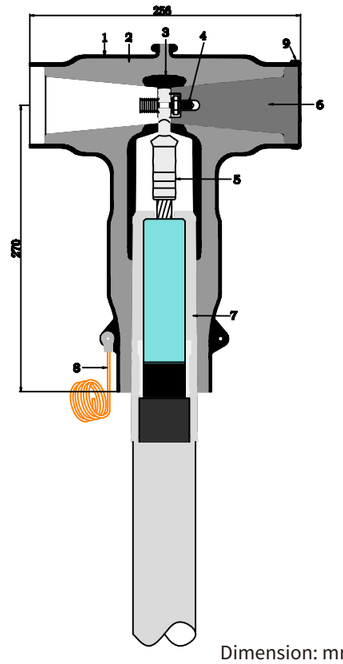
Voltage Class	40.5kV
Continuous Current	up to 1250A
AC Withstand Voltage	95kV for 1min
Partial Discharge	45kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	200kV

WEB 35/630
Bolted-type Tee Connector

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 in compliance with the bushing of interface E
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	Up to 1250A
AC Withstand Voltage	117kV for 5min
Partial Discharge	45kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	200kV
Screen Resistance	⩽5000Ω

Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEB				

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 insulationϕ(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 WEB 35/630B05C3.

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 35/630B05C3-X.
Feel free to contact us for detailed information.

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

Application

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

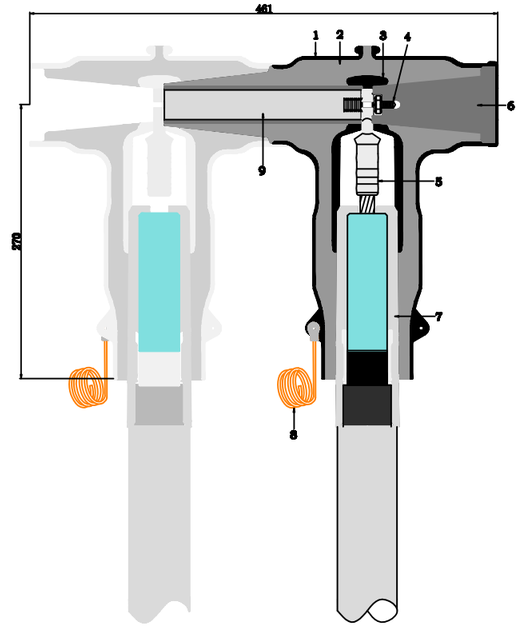
Features

- Manufactured from EPDM rubber, providing a fully screened separable connection when mated with the bushing of interface E
- 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 in compliance with the bushing interface E
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



Dimension: mm

Technical Data

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

Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEBK				

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 insulationϕ(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 WEBK 35/630B05C3.

Note:
Sealing or solderless grounding kits shall be ordered separately.
Please add "-X" for cable with copper wire shield without armour, like WEBK 35/630B05C3-X.
Feel free to contact us for detailed information.

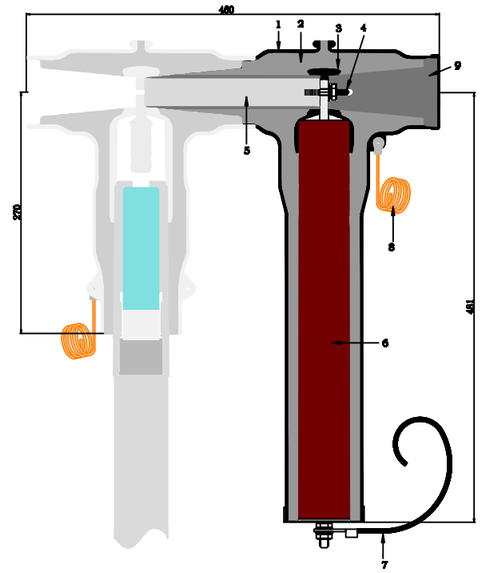
MOA Separable Arrester for WEB(K) 35/630

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 WEB(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
9. Insulated Plug
Moulded epoxy plug in compliance with the bushing of interface E



Dimension: mm

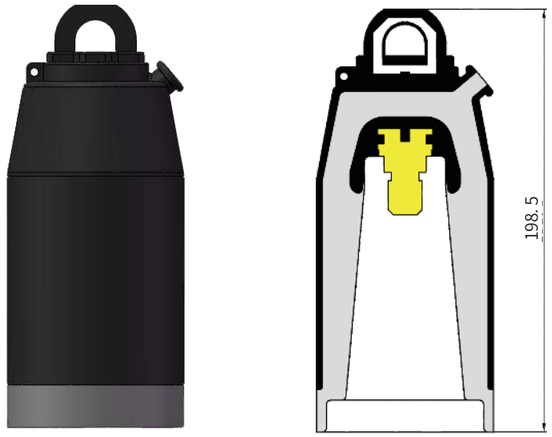
Technical Data

Item	WEBK YH5WZ-51/134/400	WEBK YH5WZ-51/134/600	WEBK YH5WZ-51/134/800
System Nominal Voltage(kV)	35	35	35
Rated Voltage(kV)	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

WEBJM 35/630
630A Insulated Cap

Features

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



Dimension: mm

Technical Data

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

Separable Connectors Mated with IEEE 386

Woer produces a range of separable Elbow and Tee connector kits. Our separable connectors are widely used in switchgears, transformers, cabinets and other electrical equipments. It is manufactured from EPDM or silicone rubber with integrated field control. Woer adopts advanced triple-layer (a conductive inner layer, an insulation layer and a conductive outer layer) injection technique to guarantee the interface property to avoid gaps between layers and decrease partial discharge maximally. Our separable connectors are delivered in 3-phase kit. Each kit contains all the necessary accessories.
Woer products have been designed and tested per IEEE and other industry standards including:

Standard	Description
IEEE 386	Separable insulated connector system for power distribution system above 600V
GB 11032	Metal oxide surge arresters without gaps for a.c. systems
JB/T 8952	Polymer-housed metal oxide surge arresters without gaps for a.c. systems

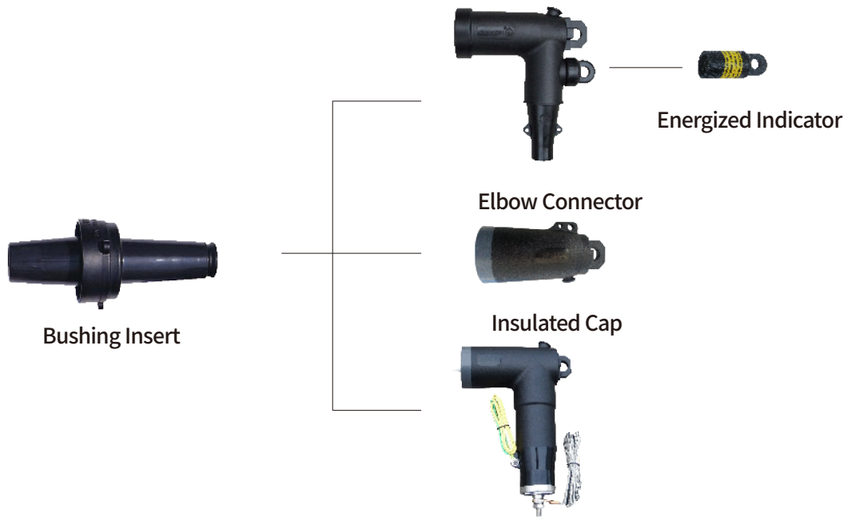
Brief instruction for bushing interface according to IEEE 386-2006

Bushing Interface	Voltage Class	Interface Description	Standard
200A Series Loadbreak	8.3/14.4kV	200A Sliding	IEEE 386 Loadbreak, Figure 5
200A Series Loadbreak	15.2/26.3kV	200A Sliding	IEEE 386 Loadbreak, Figure 7
200A Series Deadbreak Bushing or Junction	8.3/14.4kV	200A Sliding	IEEE 386 Deadbreak Figure 4
600A Series Deadbreak Bushing or Junction	15.2/26.3kV	600A Bolted	IEEE 386 Deadbreak Figure 11
600A Series Deadbreak Bushing or Junction	21.1/36.6kV	600A Bolted	IEEE 386 Deadbreak Figure 13

15kV 200A Loadbreak Series

Features

- Manufactured from high quality EPDM rubber
- Fully screened
- In compliance with IEEE 386-2006, Figure 5
- 100% factory tested

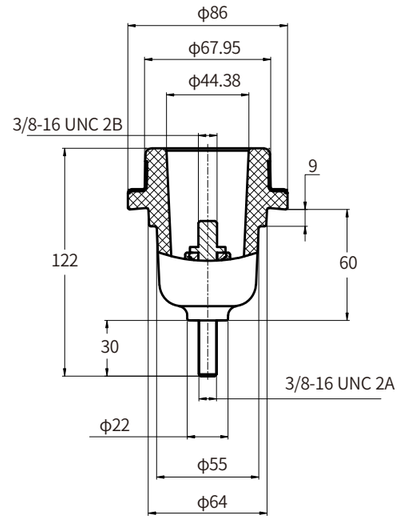


Typical components of 200A Loadbreak Separable Insulated Connector System

WATGZ 15/200
200A Bushing Well

Features

- Used with loadbreak bushings meeting the requirements of IEEE 386
- Compact design
- Manufactured from high quality epoxy resin



Dimension: mm

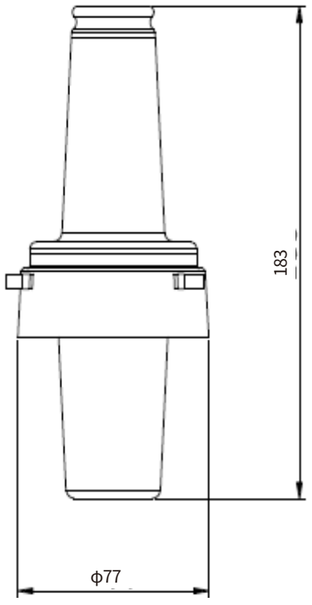
Technical Data

Item	Bushing Well
Rated Voltage(U_0/U)	8.3/14.4kV
Rated Current	200A
AC Withstand Voltage	42kV for 1min
Partial Discharge	⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	95kV

WADT 15/200
200A Loadbreak Bushing Insert

Features

- Used with loadbreak connectors meeting the requirements of IEEE 386，Figure 5
- Compact design
- Manufactured from high quality EPDM rubber.



Dimension: mm

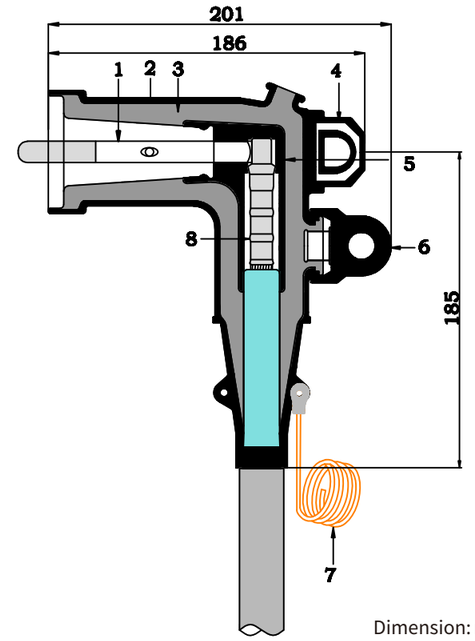
Technical Data

Item	Bushing Insert
Rated Voltage(U_0/U)	8.3/14.4kV
Rated Current	200A
AC Withstand Voltage	34kV for 1min
Partial Discharge	11kV,⩽3pC
Impulse Withstand Voltage (10 times for each polarity)	95kV

WAZT 15/200
Loadbreak Elbow Connector

Design

1. Probe
Tinned copper probe to thread into the conductor lug with the supplied tool
2. External Screen
Moulded conductive EPDM rubber to ensure the connector touchable
3. Insulation
Moulded insulated EPDM rubber to ensure excellent electrical properties
4. Pulling eye
Provide a detent to position the stainless bail assembly
5. Internal Screen
Moulded conductive EPDM rubber to control electrical stress
6. Voltage test point
Provide means to check circuit status
7. Earthing Wire
To earth the external screen for the connector
8. Conductor Lug
To connect the cable conductor and probe



Dimension: mm

Technical Data

Rated Voltage (U_0/U)	8.3/14.4kV
Rated Current	200A
AC Withstand Voltage	34kV for 1min
Partial Discharge	11kV,⩽3pC
Impulse Withstand Voltage (10 times for each polarity)	95kV
Switching Current	14.4kV, 200A, 10 times
Screen Resistance	⩽5000Ω

Ordering instruction

Ordering Information and Designation

	1	2	3	4
WAZT				

Step 1

Choose the system voltage and current: 15/200

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 insulationϕ(mm)	
	Min.	Max.
A	16	20
B	20	23
C	23	25

Table C

Conductor Code

Conductor Cross-section(mm^2)	Copper Lug (Hexagonal compression)	Bimetallic Lug (Hexagonal compression)
25	01C	01B
35	02C	02B
50	03C	03B
70	04C	04B
95	05C	05B
120	06C	06B

Ordering example:

The cable is 15kV, 3-core 95mm2 copper conductor with core insulation diameter of 22mm. Order WAZT 15/200B05C3.

Note:

Sealing or solderless grounding kits shall be ordered separately.

Please add "-X" for cable with copper wire shield without armour, like WAZT 15/200B05C3-X.

Feel free to contact us for detailed information.

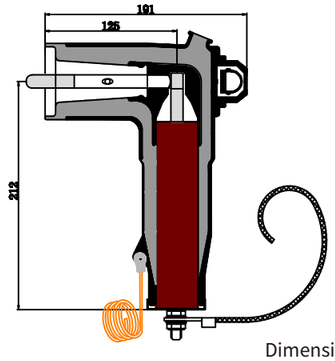
WAJM 15/200
200A Insulated Cap

Application

Used as a temporary or permanent cover on an energized operating interface.Standard product has an insulating cuff.

Dimension: mm

M.O.A Elbow Surge Arrester



Dimension: mm

Technical Data

Item	WAZT YH5WZ-10/27	WAZT YH5WS-10/30	WAZT YH5WS-13/36	WAZT YH5WZ-17/45	WAZT YH5WS-17/50
System Nominal Voltage(kV)	6	6	10	15	15
Rated Voltage(kV)	10	10	13	17	17
Continuous Operation Voltage (kV)	8.0	8.0	10.4	13.6	13.6
Nominal Discharge Current(kA)	5	5	5	5	5
Steep Current Impulse Residual Voltage (kV)	⩽31.0	⩽34.6	⩽41.3	⩽51.8	⩽57.5
Lightning Impulse Residual Voltage(kV)	⩽27.0	⩽30.0	⩽36.0	⩽45.0	⩽50.0
Switching Impulse Residual Voltage(kV)	⩽23.0	25.6	30.7	35.0	42.5
Long Duration Current Impulse withstand(A)	150	75	150	150	100
High Current Impulse Withstand (kA)	65	65	65	65	65

25kV 200A Loadbreak Series

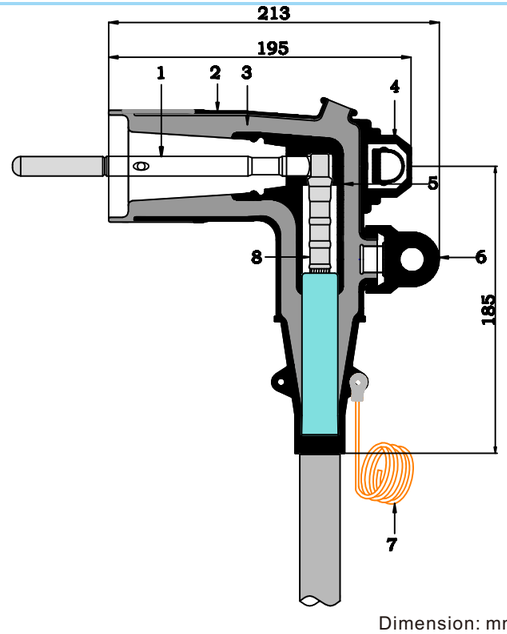
WAZT 25/200
Loadbreak Elbow Connector

Features

- Manufactured from high quality EPDM rubber
- Fully screened
- In compliance with IEEE 386, Figure 7
- 100% factory tested

Design

1. Probe
Tinned copper probe to thread into the conductor lug with the supplied tool
2. External Screen
Moulded conductive EPDM rubber to ensure the connector touchable
3. Insulation
Moulded insulated EPDM rubber to ensure excellent electrical properties
4. Pulling eye
Provide a detent to position the stainless bail assembly
5. Internal Screen
Moulded conductive EPDM rubber to control electrical stress
6. Voltage test point
Provide means to check circuit status
7. Earthing Wire
To earth the external screen for the connector
8. Conductor Lug
To connect the cable conductor and probe



Dimension: mm

Technical Data

Rated Voltage (U_0/U)	15.2/26.3kV
Continuous Current	200A
AC Withstand Voltage	40kV for 1min
Partial Discharge	19kV,⩽3pC
Impulse Withstand Voltage (10 times for each polarity)	125kV
Switching Current	26.3kV, 200A, 10 times
Screen Resistance	⩽5000Ω

Ordering instruction

The ordering formula as followed:

	1	2	3	4
WAZT				

Step 1
Choose the system voltage and current: 25/200
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 insulationϕ(mm)	
	Min.	Max.
A	16	21
B	18	24
C	22	28
D	25	32

Table C

Conductor Code

Conductor Cross-section(mm^2)	Copper Lug (Hexagonal compression)	Bimetallic Lug (Hexagonal compression)
25	01C	01B
35	02C	02B
50	03C	03B
70	04C	04B
95	05C	05B
120	06C	06B

Ordering example:

Ordering example:
The cable is 25kV, 3-core 95mm2 copper conductor with core insulation diameter of 24mm. Order WAZT 25/200C05C3.
Note:
Sealing or solderless grounding kits shall be ordered separately.
Please add "-X" for cable with copper wire shield without armour, like WAZT 25/200C05C3-X.
Feel free to contact us for detailed information.

15kV 200A Deadbreak Series

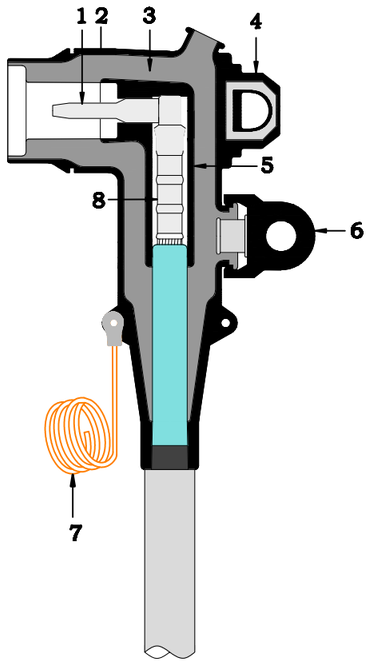
WEZT 15/250
Deadbreak Elbow Connector

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
- Equipt with a fault indicator
- 100% factory tested
- Tested in compliance with IEC60502.4
- In complying with IEEE 386, Figure 4

Design

1. Probe
Tinned copper probe to thread into the conductor lug with the supplied tool
2. External Screen
Moulded conductive EPDM rubber to ensure the connector touchable
3. Insulation
Moulded insulated EPDM rubber to ensure excellent electrical properties
4. Pulling eye
Provide a detent to position the stainless bail assembly
5. Internal Screen
Moulded conductive EPDM rubber to control electrical stress
6. Voltage test point
Provide means to check circuit status
7. Earthing Wire
To earth the external screen for the connector
8. Conductor Lug
To connector the cable conductor and probe



Technical Data

Voltage Class	12kV	17.5kV
Continuous Current	250A	250A
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
WEZT				

Step 1
Choose the system voltage and current: 15/250.
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 insulationϕ(mm)	
	Min.	Max.
A	16	18
B	17	21
C	20	24
D	23.5	27

Table C

Conductor Code

Conductor Cross-section(mm^2)	Copper Lug (Hexagonal compression)	Bimetallic Lug (Hexagonal compression)
25	01C	01B
35	02C	02B
50	03C	03B
70	04C	04B
95	05C	05B
120	06C	06B

Ordering example:

The cable is 15kV, 3*95mm2 copper conductor with core insulation diameter of 20mm. Order WEZT 15/250B05C3.
Note:
Sealing or solderless grounding kits shall be ordered separately.
Please add "-X" for cable with copper wire shield without armour, like WEZT 15/250B05C3-X.
Feel free to contact us for detailed information.

25kV 600A Deadbreak Series

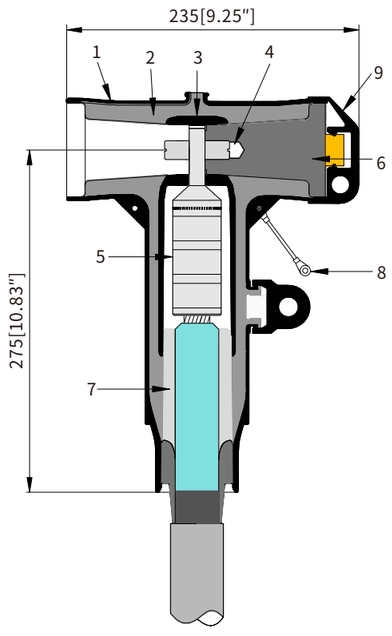
WATT 25/600
Tee Connector

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 equipt 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=15kV，25=25kV;

Step 1
Determine the code for diameter over cable insulation fromTable 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	mm²	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	-

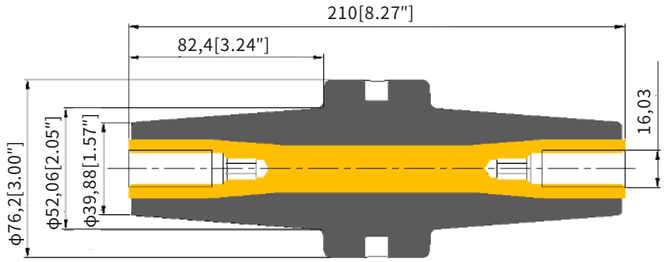
Ordering example:

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.

WAZH 25/600/600
Connecting Plug

Features

- Used to connect and insulate the Tee connectors meeting the requirements of IEEE 386，Figure 11
- Compact design
- Manufactured from high quality epoxy resin.



Dimension: mm(inch)

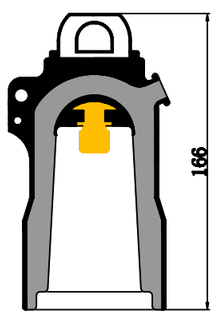
Technical Data

Item	Connecting Plug
Rated Voltage(U_0/U)	15.2/26.3kV
Rated Current	600A
AC Withstand Voltage	40kV for 1min
Partial Discharge	19kV,⩽3pC
Impulse Withstand Voltage (10 times for each polarity)	125kV

WAJM 15/600
Insulated Cap

Application

The 600A Insulating Cap isolates unused 600A interfaces. It is insulated and fully shielded for energized 15 kV deadbreak interfaces to avoid low-energy discharge from the outer conductive shield.



Dimension: mm

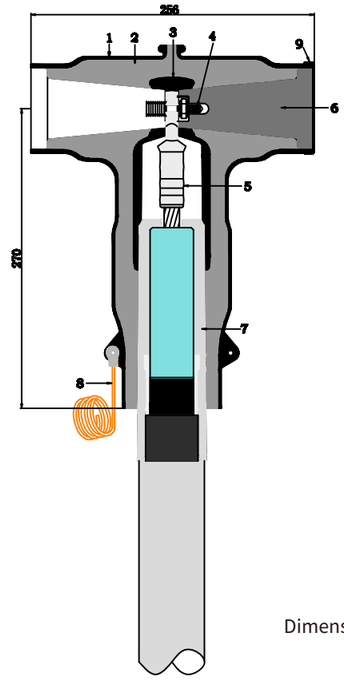
WEB 35/600
Tee Connector

Features

- Manufactured from EPDM rubber, providing a fully screened separable connection when mated with proper bushing or plug
- In compliance with IEEE 386, Figure 13
- 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 386-2006, Figure 13
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	35kV
Continuous Current	600A
AC Withstand Voltage	117kV for 5min
Partial Discharge	45kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	200kV
Screen Resistance	⩽5000Ω

Ordering instruction

The ordering formula as followed:

	1	2	3	4
WEB				

Step 1

Choose the system voltage and current: 35/600

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 insulationϕ(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*95mm^2 copper conductor with core insulation diameter of 34mm. Order WEB 35/600B05C3.

Note:

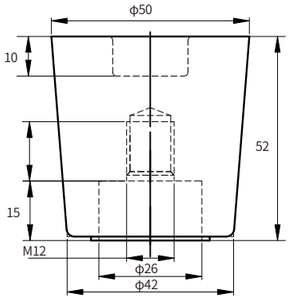
Sealing or solderless grounding kits shall be ordered separately.
Insulated plug with capacitive test point is available upon request.
Please add "-X" for cable with copper wire shield without armour, like WEB 35/600B05C3-X.
Feel free to contact us for detailed information.

Insulated plugs

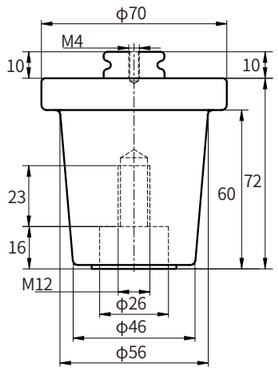
Application

To insulate the rear end of the Tee Connector (WEB) and Rear Connector (WEBK) kits.
Capacitive test point is available upon request.

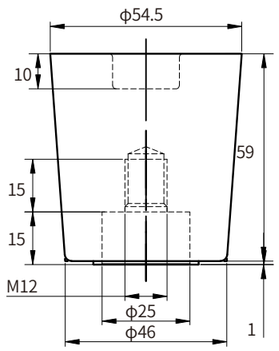
Design



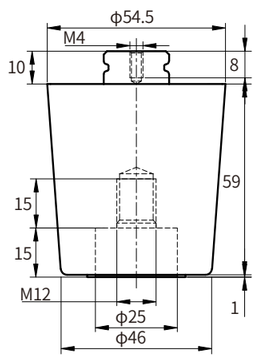
1# Insulated plug
Part No. WEJYS-12



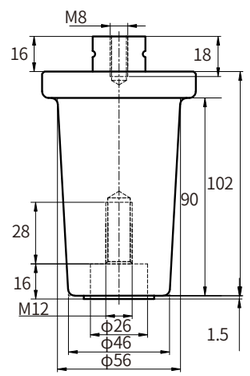
2# Insulated plug
Part No. WEJYS-24



5# Insulated plug
Part No. WEJYS-24S



7# Insulated plug
Part No. WEJYS-24H



8# Insulated plug
Part No. WEJYS-35C

Energized Indicator(WDDX)

Install at the test point to indicate the circuit energized status with flicker warning.
Moreover, it is fully insulated and sealed without limit of climate condition.

Fault Indicator(EKL-2)

Indicate the circuit status with flicker warning the fault circuit to shorten the fault inspecting time.

Earth Fault and Short Circuit Indicator(EKL-4)

EKL-4 consists of 3 parts: a display panel, three sensors detecting short-circuit and one sensor for grounding fault. More visualized and multifunctional operation improves working efficiency significantly.

Cable Sheath Voltage Limiter (WBHQ 7/400 or WBHQ 7/600)

Used for single-core power cable route to restrict the inducted voltage on the cable metal sheath. It protects the sheath from breakdown by overvoltage.

Cable Shield Adapter

For 15kV 200A Elbow Connector installed on wire shield cable, the Cable Shield Adapters, made of EPDM rubber, provide both sealing protection against moisture ingress and an easy grounding for cable wire shield.

Spec.	Dimension over cable insulation	
	inch	mm
Φ12	0.53~0.68	13.5~17.3
Φ15	0.64~0.82	16.3~20.8
Φ18	0.76~0.95	19.3~24.1
Φ20	0.85~1.05	21.6~26.7
Φ23	0.98~1.18	24.9~30.0
Φ26	1.03~1.31	27.7~33.3
Φ29	1.18~1.46	30.0~37.2
Φ32	1.37~1.63	34.8~41.4
Φ35	1.52~1.78	38.6~46.2

Cold Shrink Sealing & Grounding Kits for Connectors

3-core

1-core

Heat Shrink Sealing & Grounding Kits for Connectors

3-core

1-core

Busbar Connecting System

Busbar Connector

Busbar connector system is manufactured from silicone rubber, mainly applied to the connection for SF6 insulated switchgear with metal housing. To mate with the bushing interfaces conform to type C in EN50180, EN 50181 .

Screened busbar up to 24kV, 1250A

Features:

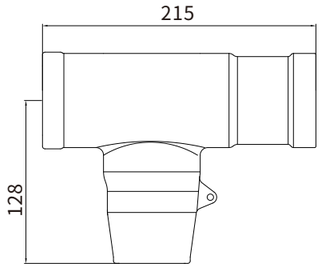
Variable busbar length from 300-700mm available
Quick and easy assembly
Screening by outer conductive layer
Integrated stress control system
Note: Unscreened products for busbar connector system are available.

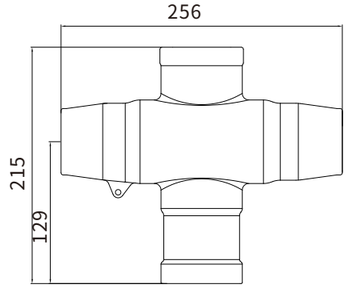
End-adapter
Part No. WEB-15/DJ2
WEB-24/DJ2

Cross-adapter
Part No. WEB-15/SJ2
WEB-24/SJ2

Busbar
Part No. WEB-15/M2-*L
WEB-24/M2-*L

*Length according to application





Dimension: mm

Technical Data

Item	Busbar Connector and Kits	
Voltage Class	17.5kV	24kV
Rated Current	630A,1250A	630A,1250A
AC Withstand Voltage	48kV for 1min	65kV for 1min
Partial Discharge	15kV,⩽10pC	20kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	95kV	125kV
Screen Resistance	⩽5000Ω	⩽5000Ω

Busbar Connector

Busbar connector system is manufactured from silicone rubber, mainly applied to the connection for SF6 insulated switchgear with metal housing. The connecting interface conforms to type C in EN50180, EN 50181.

Screened busbar up to 40.5kV, 1250A

Features:

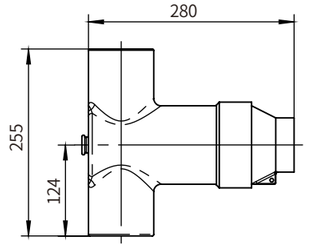
The available busbar lengths are 550 mm, 600 mm, 700 mm and 800mm
Quick and easy assembly
Screening by outer conductive layer
Integrated stress control system
Note: Unscreened products for busbar connector system are available.

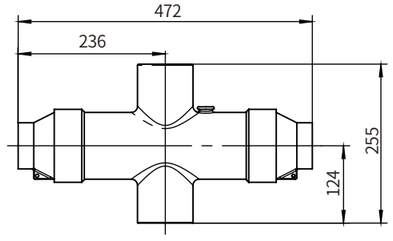
End-adapter
Part No. WEB-35C/DJ

Cross-adapter
Part No. WEB-35C/SJ

Busbar
Part No. WEB-35C/M-*L

*Length according to application





Dimension: mm

Technical Data

Item	Busbar Connector and Kits
Voltage Class	40.5kV
Rated Current	1250A
AC Withstand Voltage	95kV for 1min
Partial Discharge	45kV,⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	200kV
Screen Resistance	⩽5000Ω

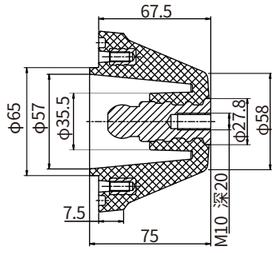
Inner Cone Busbar Kits

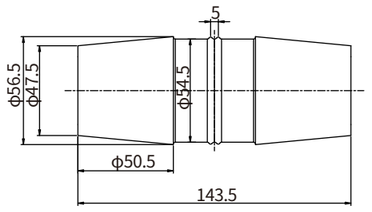
Inner cone busbar kits are suitable for the combined connection of ring main units to supply more branches for extension. Meanwhile, it is a prior option to combined ring main units.

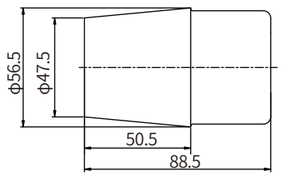
Inner Cone Busbar Insulator
Part No. GBCK-TG

Inner Cone Busbar Connector
Part No. GBCK-L

Inner Cone Busbar Plug
Part No. GBCK-M







Dimension: mm

Technical Data

Item	Inner Cone Busbar Kits
Voltage Class	15kV
Rated Current	630A
AC Withstand Voltage	48kV for 1min
Partial Discharge	15kV,⩽10pC
Impulse Withstand Voltage (15 times for each polarity)	95kV
Screen Resistance	⩽5000Ω
Temperature rise	⩽65K

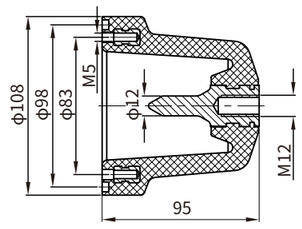
Inner Cone Busbar Kits

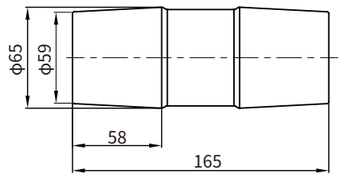
Inner cone busbar kits are suitable for the combined connection of ring main units to supply more branches for extension. Meanwhile, it is a prior option to combined ring main units.

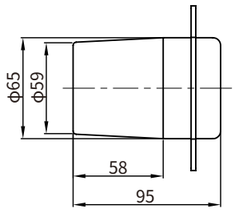
Inner Cone Busbar Insulator 1#
Part No. WNML1-TG

Inner Cone Busbar Connector 1#
Part No. WNML1-15

Inner Cone Busbar Plug 1#
Part No. WNMLD1-15







Dimension: mm

Technical Data

Item	Inner Cone Busbar Kits
Voltage Class	15kV
Rated Current	630A
AC Withstand Voltage	48kV for 1min
Partial Discharge	15kV,⩽10pC
Impulse Withstand Voltage (15 times for each polarity)	95kV
Screen Resistance	⩽5000Ω
Temperature rise	⩽65K

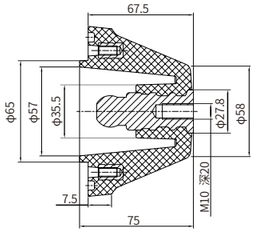
Inner Cone Busbar Kits

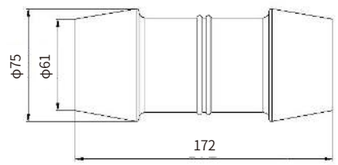
Inner cone busbar kits are suitable for the combined connection of ring main units to supply more branches for extension. Meanwhile, it is a prior option to combined ring main units.

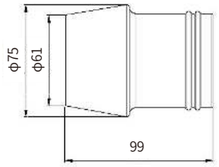
Inner Cone Busbar Insulator
Part No. WNML2-24

Inner Cone Busbar Connector
Part No. WNML2-24

Inner Cone Busbar Plug
Part No. WNMLD2-24







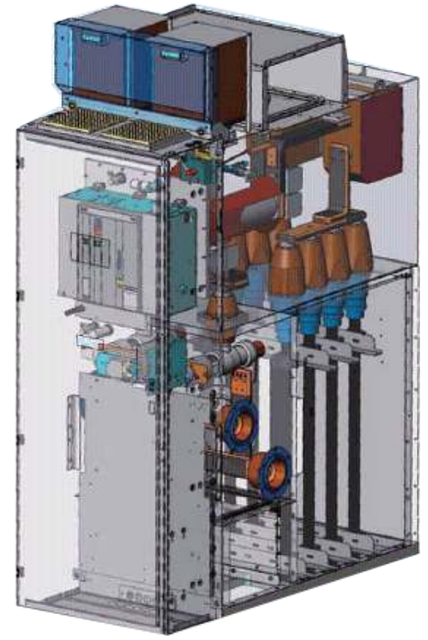
Dimension: mm

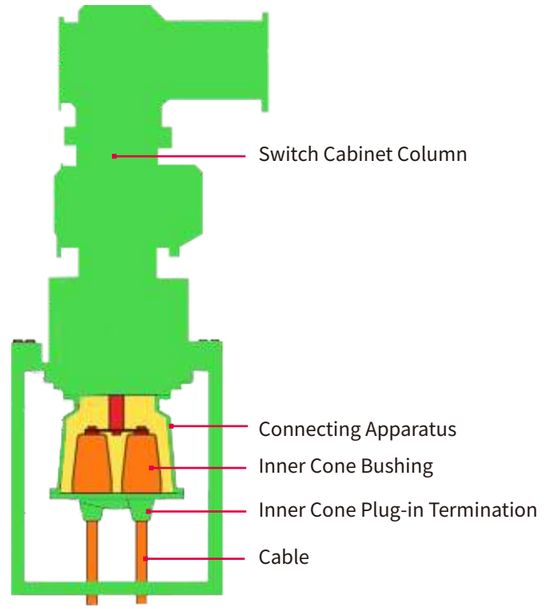
Technical Data

Item	Inner Cone Busbar Kits
Voltage Class	24kV
Rated Current	630A
AC Withstand Voltage	80kV for 1min
Partial Discharge	20kV,≤10pC
Impulse Withstand Voltage (15 times for each polarity)	125kV
Screen Resistance	≤5000Ω
Temperature rise	≤65K

Termination

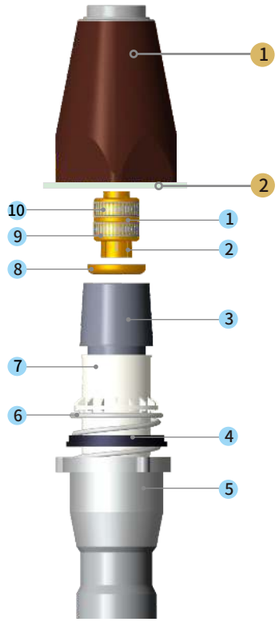
- Conforming to EN 50181&50180
- Dry interface
- Premould stress control cone of silicone rubber with 100% factory tested
- Tested according to IEC 60502
- Metal protective shell on tail to provide great mechanical protection and fully shielding
- Adopting integral compression structure of tail tube and spring to ensure enough interface force between the stress control cone and bushing
- Suitable for indoor& outdoor condition mated with C-GIS or transformers





Application

Designed Profile



Insulated Bushing

1. Inner Cone Insulated Bushing
2. Flange

Inner Cone Plug-in Termination

1. Wedge-shaped Cylinder
2. Bite-wire Tool
3. Premould Stress Cone
4. Gasket
5. Tail Tube
6. Non-magnetic Spring
7. Supporting Tube
8. Check sleeve
9. Clamp Ring
10. Conductive Strip

Technical Data

Item		Main Body		
		1#	2#	3#
Rated Current	A	630	800	1250
Maximum System Voltage(U_m)	kV	36	42	42
AC Withstand Voltage	50Hz,for 5min (kV)	81	117	117
Partial Discharge	1.73U_0	⩽10pC	⩽10pC	⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	1.2/50μs(kV)	170	200	200
Maximum Short-time Current Withstand	1sec(kA)	31.5	40	50

Selection Table

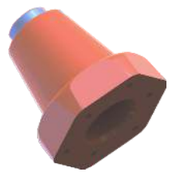
Rated Voltage	Main Body	Core Number	Part No.
26/35kV	3#	3	35kV WCBN-3-3×50~630
		1	35kV WCBN-3-1×50~800
	2#	3	35kV WCBN-2-3×50~185
		1	35kV WCBN-2-1×50~185
27.5kV	3#	1	27.5kV WCBN-3-1×150~400
18/30kV	3#	3	30kV WCBN-3-3×35~630
		1	30kV WCBN-3-1×35~800
	2#	3	30kV WCBN-2-3×35~185
		1	30kV WCBN-2-1×35~185
12/20kV	3#	3	20kV WCBN-3-3×35~630
		1	20kV WCBN-3-1×35~800
	2#	3	20kV WCBN-2-3×35~185
		1	20kV WCBN-2-1×35~185
6/10, 8.7/10 or 8.7/15kV	3#	3	10kV WCBN-3-3×35~630
		1	10kV WCBN-3-1×35~800
	2#	3	10kV WCBN-2-3×35~185
		1	10kV WCBN-2-1×35~185

Note: The final determination factor is the cable insulation diameter.

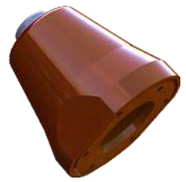
Insulated Bushing

Description

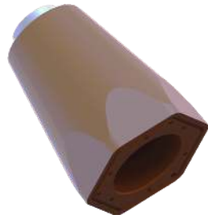
- Conforming to EN 50181&50180
- Connecting to high voltage conductor of C-GIS cabinets or transformers
- Compact design, fully insulated and no maintenance



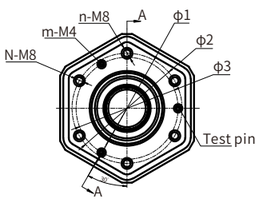
WNJT-1

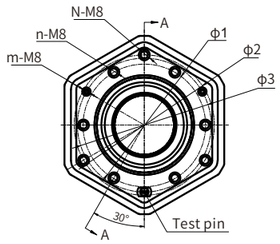


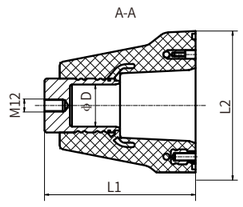
WNJT-2



WNJT-3







Dimension: mm

Referred Dimension

Item		Part No.		
		WNJT-1	WNJT-2	WNJT-3
Outline	L1(mm)	140	140	217
	L2(mm)	137	137	165
Conductor	ΦD(mm)	36	39	55
Installation	Installation Position for BushingΦ1(mm)	102	102	113
	Number of Installation Hole n(pc)	3	3	6
	Installation Position for TerminationΦ2(mm)	95	102	130
	Number of Installation Hole N(pcs)	3	3	3
	Installation Position for Live Part VerificationΦ3(mm)	95	95	124
	Number of Installation Hole m(pcs)	3	3	3

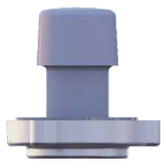
Technical Data

Item		Part No.		
		WNJT-1	WNJT-2	WNJT-3
Rated Current	A	630	800	1250
Maximum System Voltag(U_m)	kV	36	42	42
AC Withstand Voltage	50Hz,for 5min (kV)	70	117	117
Partial Discharge	1.73U_0	⩽5pC	⩽5pC	⩽5pC
Impulse Withstand Voltage (10 times for each polarity)	1.2/50μs(kV)	170	200	200
Maximum Short-time Current Withstand	1sec(kA)	31.5	40	50
Rated Impulse Current	kA	125	150	150

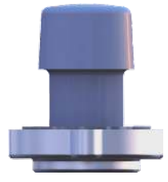
Insulated Insert

Description

- Conforming to EN 50181 &50180
- To seal and insulate inner cone insulated bushing used for spare outlet port



WMT-1



WMT-2

WMT-3

Technical Data

Item		Part No.		
		WMT-1	WMT-2	WMT-3
Maximum System Voltage(U_m)	kV	36	42	42
AC Withstand Voltage	50Hz,for 5min(kV)	81	117	117
Partial Discharge	1.73U_0	⩽10pC	⩽10pC	⩽10pC
Impulse Withstand Voltage (10 times for each polarity)	1.2/50μs(kV)	170	200	200

Inner Cone Plug-in
Serial up to 42kV

KEMA Certification

DNV·GL

KEMA TYPE TEST CERTIFICATE OF COMPLETE TYPE TESTS

Shenzhen Woer Heat-Shrinkable Material Co. Ltd.

Shenzhen, China

has successfully passed the type test sequence on a

separable connector

Type: WEB24-630 Tee Connector
Rating: 12,7/22 (24) kV – 1x185 mm² – Cu – XLPE

The test object passed the specification of test duties of

IEC 60502-4

The test results are recorded in Certificate No.

1136-16

This Certificate was issued on 22 April 2016.

KEMA Nederland B.V.

J.P. Fonteijne
Executive Vice President
KEMA Laboratories

KEMA Laboratories

DNV·GL

KEMA TYPE TEST CERTIFICATE OF COMPLETE TYPE TESTS

Shenzhen Woer Heat-Shrinkable Material Co. Ltd.

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separable connector

Type: WEB24-630 Tee Connector
Rating: 12,7/22 (24) kV – 1x185 mm² – Cu – XLPE

The test object passed the specification of test duties of

HD 629.1 S2

The test results are recorded in Certificate No.

1134-16

This Certificate was issued on 22 April 2016.

KEMA Nederland B.V.

J.P. Fonteijne
Executive Vice President
KEMA Laboratories

KEMA Laboratories

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KEMA TYPE TEST CERTIFICATE OF COMPLETE TYPE TESTS

Shenzhen Woer Heat-Shrinkable Material Co. Ltd.

Shenzhen, China

has successfully passed the type test sequence on a

separable connector

Type: WEBK24-630 Rear Connector
Rating: 12,7/22 (24) kV – 1x185 mm² – Cu – XLPE

The test object passed the specification of test duties of

IEC 60502-4

The test results are recorded in Certificate No.

1137-16

This Certificate was issued on 22 April 2016.

KEMA Nederland B.V.

J.P. Fonteijne
Executive Vice President
KEMA Laboratories

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KEMA TYPE TEST CERTIFICATE OF COMPLETE TYPE TESTS

Shenzhen Woer Heat-Shrinkable Material Co. Ltd.

Shenzhen, China

has successfully passed the type test sequence on a

separable connector

Type: WEBK24-630 Rear Connector
Rating: 12,7/22 (24) kV – 1x185 mm² – Cu – XLPE

The test object passed the specification of test duties of

HD 629.1 S2

The test results are recorded in Certificate No.

1135-16

This Certificate was issued on 22 April 2016.

KEMA Nederland B.V.

J.P. Fonteijne
Executive Vice President
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