

AHT3-15/630/□ seperatable rear connector

AHT3-15/1250/□ seperatable rear connector

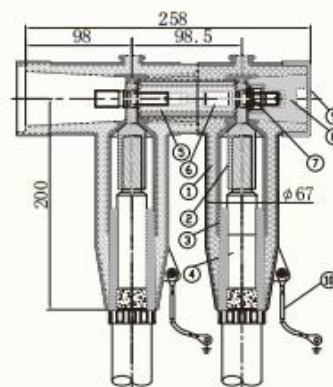
Technical characteristics

Fully insulated, fully sealed, fully shielded, touchable.
Using patented technology (patent number: 200820131080.4),
stress evacuation type adaptor, allowing installation tolerance.

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

Design diagrams

- (1) Rear connector body
Contains: Conductive inner layer
insulating layer
Conductive outer layer
- (2) lug
- (3) adaptor
- (4) Power cable
- (5) Connecting rod
- (6) studs
- (7) Nuts/flats, spring pads
- (8) Insulating plugs
- (9) end cap
- (10) Grounding wire



Model description

Model specifications	Rated voltage(kV)	Rated current (A)	Cable cross-section(mm ²)	
			Minimum	Maximum
AHT3-15/□/□	15	630(1250)	35	500

Table of corresponding holes in the adaptor and cable:

adaptor inner hole diameter specification(mm)	Cable core insulation diameter range		6.35/11(12)kV	8.7/15(17.5)kV
	Min (mm)	Max(mm)	Cable section(mm ²)	Cable section(mm ²)
Φ12	Φ13.5	Φ16.5	25-50	25
Φ14	Φ17	Φ20	70-95	35-70
Φ18	Φ20.5	Φ25	120-185	95-150
Φ22	Φ26	Φ29	240-300	185-240
Φ27	Φ30.5	Φ37	400-500	300-500

AQT3-33(36)/□/□ **seperatable front connector**

AQT3-35(40.5)/□/□ **seperatable front connector**

■ application

seperatable front connectors are suitable for power distribution units and high voltage in power plants, substations in the machine.

■ Technical characteristics

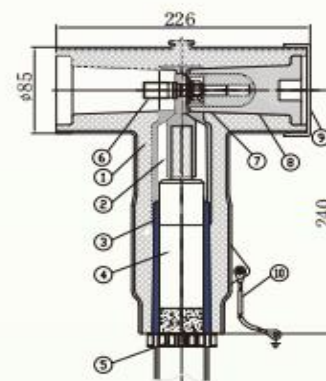
Fully insulated, fully sealed, fully shielded, touchable.
Using patented technology (patent number: 200820131080.4), stress evacuation stress cone, allowing installation tolerance.

bushing interface: C

19/33(36)kV
20.8/36(42)kV
21/35(40.5)kV
26/35(40.5)kV
ERF 35/35(40.5)kV

■ Design diagrams

- (1) Front connector body
Contains: conductive inner layer
insulating layer
conductive outer layer
- (2) lug
- (3) adaptor
- (4) Power cable
- (5) location buckle
- (6) studs
- (7) Nuts/flats, spring pads
- (8) Insulating plugs
- (9) end Cap
- (10) Grounding wire



■ Model description

Model specifications	Rated voltage (kV)	Rated current (A)	Cable cross-section(mm²)	
			Minimum	Maximum
AQT3-33(36)/□/□	36	630(1250)	35	500
AQT3-35(40.5)/□/□	40.5	630(1250)	35	500

■ Table of corresponding holes in the adaptor and cable:

adaptor inner hole diameter specification(mm)	Cable core insulation diameter range		19/33(36)kV	26/35(40.5)kV	20.8/36(42)kV
	Min (mm)	Max(mm)	Cable section(mm²)	Cable section(mm²)	Cable section(mm²)
Φ19	Φ22	Φ24	25-50		
Φ23	Φ25	Φ29.5	35-95	25-35	25-50
Φ26.5	Φ30	Φ35	120-185	50-70	70-120
Φ30	Φ35	Φ38	240-300	95-120	150-185
Φ34	Φ38	Φ42	400	150-240	240-300
Φ38	Φ44	Φ48	500-630	300-400	400-500
Φ42	Φ49	Φ54	800	500-630	630

AHT3-33(36)/□/□ seperatable rear connector

AHT3-35(40.5)/□/□ seperatable rear connector

Technical characteristics

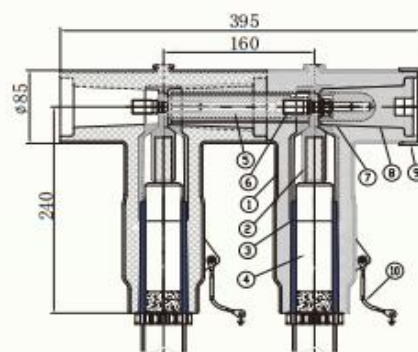
Fully insulated, fully sealed, fully shielded, touchable.

Using patented technology (patent number: 200820131080.4), stress evacuation type adaptor, allowing installation tolerance.

19/33(36)kV
20.8/36(42)kV
21/35(40.5)kV
26/35(40.5)kV
ERF 35/35(40.5)kV

Design diagrams

- (1) Rear connector body
Contains: Conductive inner layer
insulating layer
Conductive outer layer
- (2) lug
- (3) adaptor
- (4) Power cable
- (5) Connecting rod
- (6) studs
- (7) Nuts/flats, spring pads
- (8) Insulating plugs
- (9) end Cap
- (10) Grounding wire



Model description

Model specifications	Rated voltage (kV)	Rated current (A)	Cable cross-section(mm²)	
			Minimum	Maximum
AHT3-33/□/□	36	630(1250)	35	630
AHT3-35/□/□	40.5	630(1250)	35	630

Table of corresponding holes in the adaptor and cable:

adaptor inner hole diameter specification(mm)	Cable core insulation diameter range		19/33(36)kV	26/35(40.5)kV	20.8/36(42)kV
	Min (mm)	Max(mm)	Cable section(mm²)	Cable section(mm²)	Cable section(mm²)
Φ19	Φ22	Φ24	25-50		
Φ23	Φ25	Φ29.5	35-95	25-35	25-50
Φ26.5	Φ30	Φ35	120-185	50-70	70-120
Φ30	Φ35	Φ38	240-300	95-120	150-185
Φ34	Φ38	Φ42	400	150-240	240-300
Φ38	Φ44	Φ48	500-630	300-400	400-500
Φ42	Φ49	Φ54	800	500-630	630

AHT3-24/□/□ seperatable rear connector

■ Technical characteristics

Fully insulated, fully sealed, fully shielded, touchable.

Using patented technology (patent number: 200820131080.4), stress evacuation type adaptor, allowing installation tolerance.

12/20(24)kV

12.7/22(24)kV

18/30(36)kV

■ Design diagrams

(1) Rear connector body
Contains: Conductive inner layer
insulating layer
Conductive outer layer

(2) lug

(3) adaptor

(4) Power cable

(5) Connecting rod

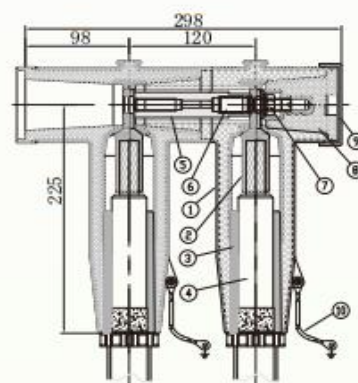
(6) studs

(7) Nuts/flats, spring pads

(8) Insulating plugs

(9) end Cap

(10) Grounding wire



■ Model description

Model specifications	Rated voltage (kV)	Rated current (A)	Cable cross-section(mm ²)	
			Minimum	Maximum
AHT3-24/□/□	24	630(1250)	35	500

■ Table of corresponding holes in the adaptor and cable:

adaptor inner hole diameter specification(mm)	Cable core insulation diameter range		12/20(24)kV	12.7/22(24)kV	18/30(36)kV
	Min (mm)	Max(mm)	Cable section(mm ²)	Cable section(mm ²)	Cable section(mm ²)
Φ16	Φ19	Φ21	25-50	25	
Φ19	Φ22	Φ25.5	70-95	35-70	35
Φ23	Φ26	Φ29.5	120-185	95-150	50-95
Φ26	Φ30	Φ34	240-300	185-240	120-150
Φ30	Φ34	Φ39.5	400-500	300-500	185-300
Φ34	Φ40	Φ46	630	630	400-500

Model description

Model Specifications Rated	Voltage (kV)	Rated Current (A)	Center distance (mm)
			minimum
AMTC-15 (24,40.5)/□-□	15	630(1250)	200
	24	630(1250)	200
	40.5	630(1250)	320

Ordering instructions

Rated voltage:15kV □; 24kV □; 40.5kV □;

Rated current:630A □; 1250A □;

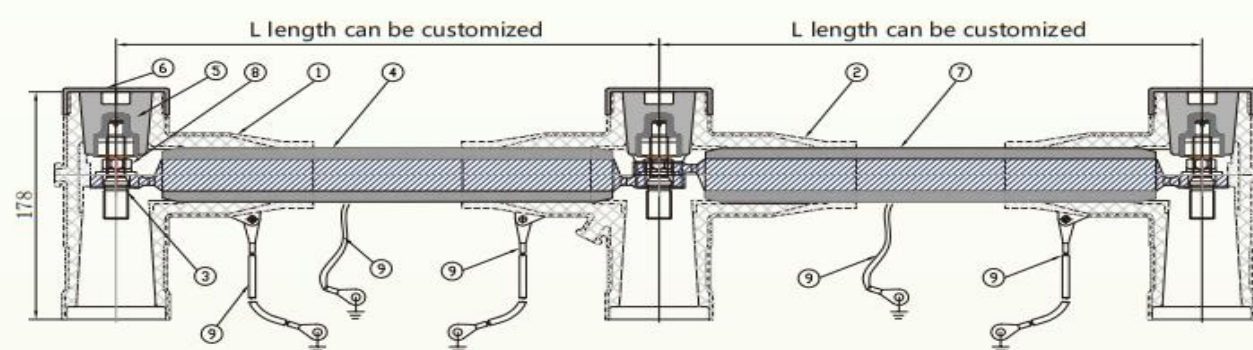
The center distance of the casing of the parallel cabinet: mm

(fill in according to the user's needs);

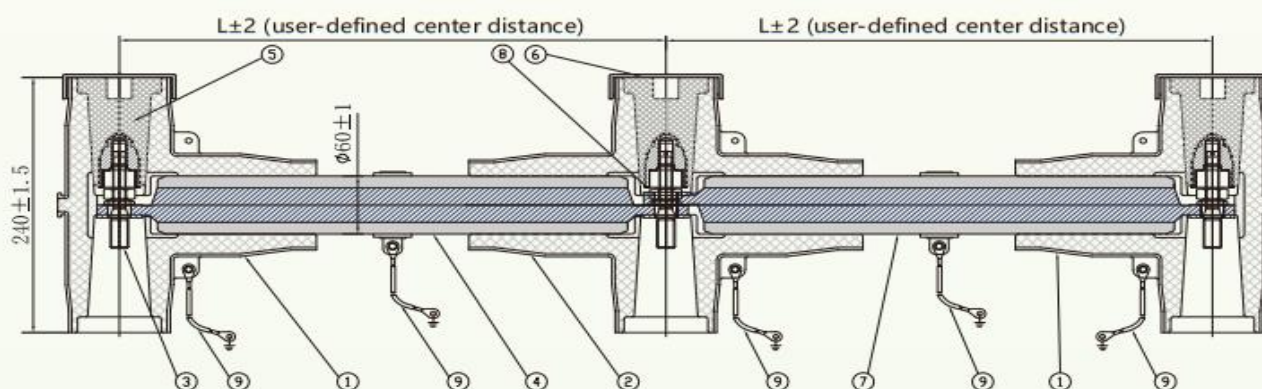
Common center distance (mm) : 371; 375; 395; 400; 420; 450; 500; 550; 600;

If you have special requirements, please consult before confirming the plan.

Design diagrams



12/24kV top-expansion busbar system



40.5kV top expansion busbar system

- (1)3 way connector body (2)Cross connector body (3)stud (4)3 way/3 way busbar
 (5)Insulating plug (6)end Cap (7)3 way/cross busbars (8)M12 nut/flat, elastic pad
 (9)Grounding wire

AP-Hongshang®

AMTC-15/□-□

busbar expansion system

AMTC-24/□-□

busbar expansion system

AMTC-40.5/□-□

busbar expansion system

■ application

The bus bar expansion system is a primary bus connection of the ring network cabinet. It is connected outside the cabinet to achieve fully insulated and fully sealed connection. The mounting position can be on the top, bottom or side.

■ Technical characteristics

Multiple ring network cabinets can be realized Serial connection, and the length can be arbitrarily customized.

bushing interface: C



Cross type connector
AST2-15 (24) / 630 (1250)



seperatable busbar
AMG-15 (24) / 630 (1250)



3 way connector
ADT2-15 (24) / 630 (1250)



Cross type connector
AST2-35 (40.5) / 630 (1250)



seperatable busbar
AMG-35 (40.5) / 630 (1250)



3 way connector
ADT2-35 (40.5) / 630 (1250)

■ packing list



630A seperatable type
134 extension set
AYC-15/630/134



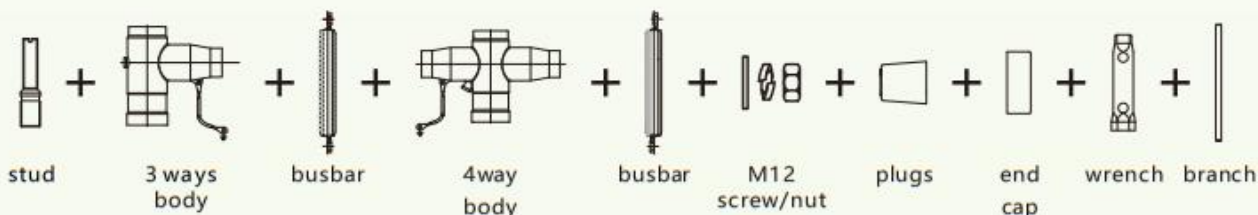
15(24)kV corner
type connector
AZT3-15(24)/630



630A seperatable type
134 extension set
AYC-15/630/134



630A seperatable
bent busbar



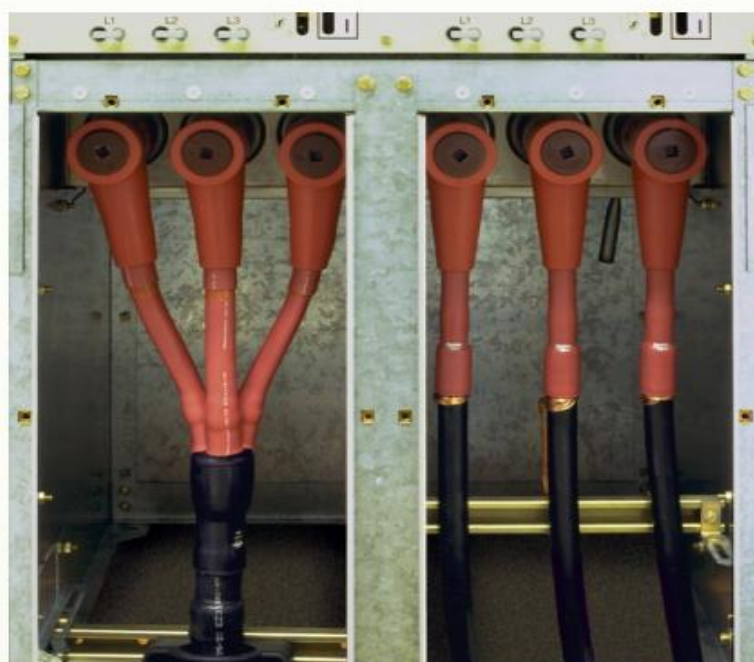
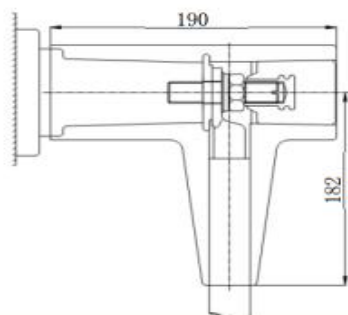
T-type insulated boots

■ application

Electrical connection between cable and gas-insulated switchgear of 24kv and below is provided, designed according to EN50181 Type C (630A) bushing interface. It is characterized by easy and reliable installation. Thick-walled insulators are made of EPDM elastomers. This product is used with heat shrinkable terminals to insulate the connection between cables and equipment. There are two sizes, and the apertures of the mating position with the cable are $\Phi 26$ and $\Phi 31.5$.



Model Number : RICS-2(3)



Application reference

Applied cable type	Cable cross-section (mm ²)	Type name
6/10kV	70-150	HS-RICS-2
	185-240	HS-RICS-3
8.7/15kV	50-95	HS-RICS-2
	120-185	HS-RICS-3
12/20kV	50-70	HS-RICS-2
	95-150	HS-RICS-3

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AJM-15/630

AJM-24/630

AJM-35(40.5)/630

Insulating Cap

Insulating Cap

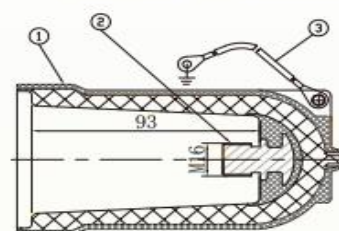
Insulating Cap

■ application

It is used to install in bushings, sockets, spare inlet and outlet ports, so that they are insulated and sealed.



bushing interface: C



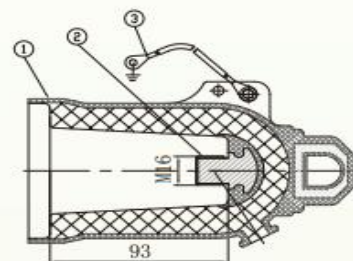
AJM-15/630 Insulating Cap

■ Technical characteristics

Fully insulated, fully sealed, fully shielded, touchable;
Excellent electrical performance.

■ Design diagrams

- (1) Insulating cap body
Contains: Conductive inner layer
insulating layer
conductive outer layer
- (2) Bolts
- (3) Grounding wire



AJM-24/630 Insulating Cap AJM-35/630 Insulating

■ Model description

Model Specifications	Rated Voltage(kV)	bushing rated current(A)
AJM-15/630	15	630
AJM-24/630	24	630
AJM-35(40.5)/630	40.5	630

■ Ordering instructions

Rated voltage 12kV ☐; 24kV ☐; 40.5kV ☐.

Please make "✓" in the box after the corresponding selection.

If you have special requirements, please consult and confirm the plan.

ATT-35(40.5)/600/□ ATT-35(40.5)/1250/□

seperatable front connector seperatable front connector

application

It is suitable for power distribution devices in power plants and substations with power frequency AC voltage of 42kV and below and in high-voltage appliances.

Technical characteristics

Fully insulated, fully sealed, fully shielded, touchable.

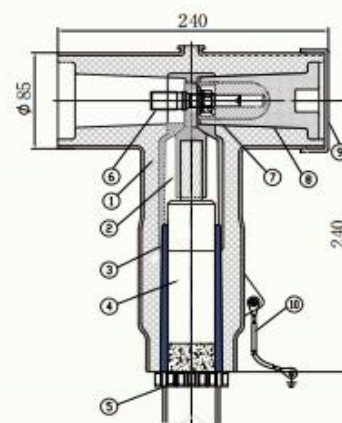
Using patented technology (patent number: 200820131080.4), stress evacuation adaptor, allowable installation tolerance.

bushing interface: E

19/33(36)kV
20.8/36(42)kV
21/35(40.5)kV
26/35(40.5)kV
ERF 35/35(40.5)kV

Design diagrams

- (1) Front connector body
Contains : conductive inner layer
insulating layer
conductive outer layer
- (2) lug
- (3) adaptor
- (4) Power cable
- (5) location buckle
- (6) studs
- (7) Nuts/flats, spring pads
- (8) Insulating plugs
- (9) end Cap
- (10) Grounding wire



Model description

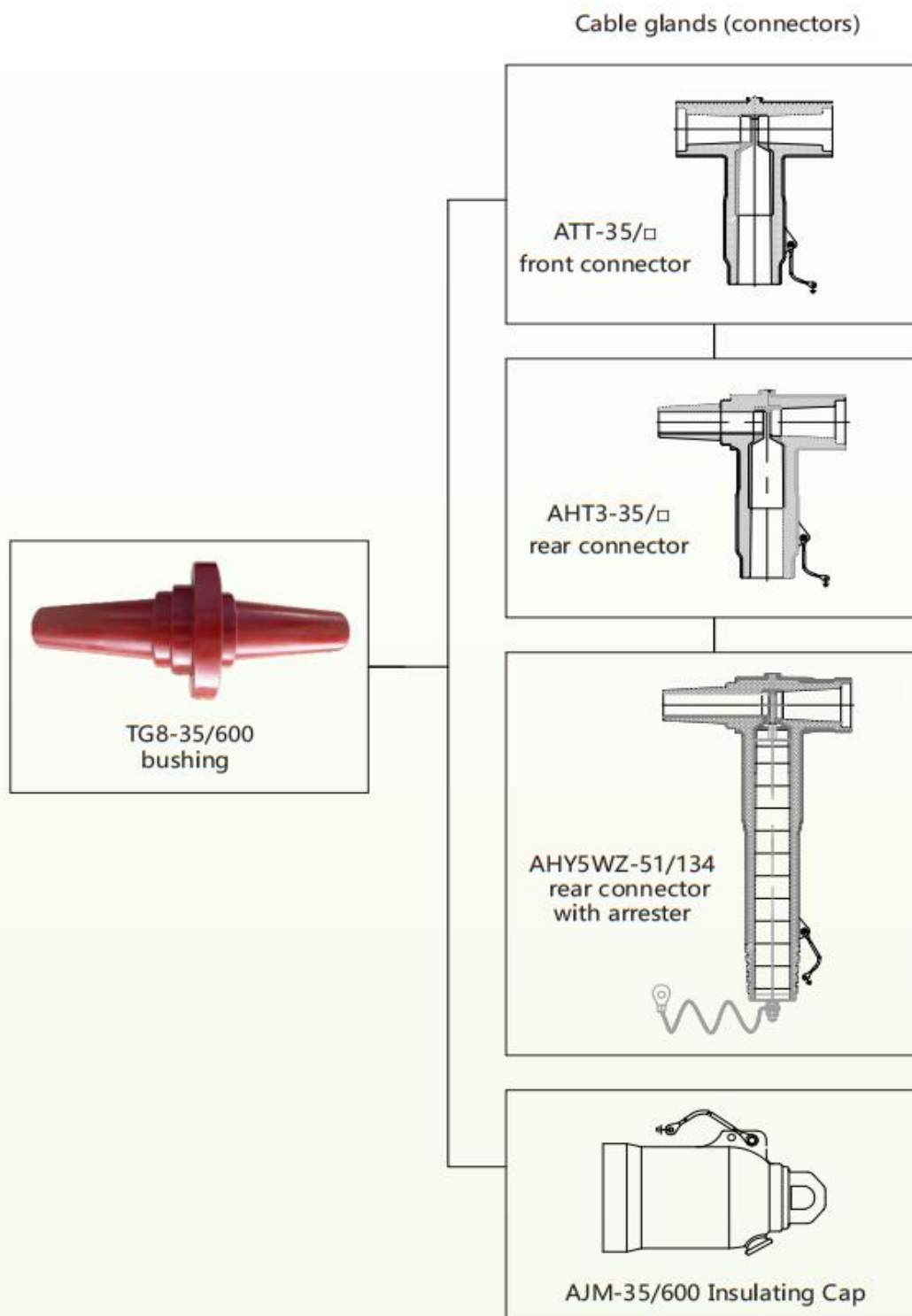
Model specifications	Rated voltage (kV)	Rated current (A)	Cable cross-section(mm ²)	
			Minimum	Maximum
ATT-35(40.5)/600/□	40.5	600(1250)	35	630

Table of corresponding holes in the adaptor and cable:

adaptor inner hole diameter specification(mm)	Cable core insulation diameter range		19/33(36)kV	26/35(40.5)kV	20.8/36(42)kV
	Min (mm)	Max(mm)	Cable section(mm ²)	Cable section(mm ²)	Cable section(mm ²)
Φ19	Φ22	Φ24	25-50		
Φ23	Φ25	Φ29.5	35-95	25-35	25-50
Φ26	Φ30	Φ35	120-185	50-70	70-120
Φ30	Φ35	Φ38	240-300	95-120	150-185
Φ34	Φ38	Φ42	400	150-240	240-300
Φ38	Φ44	Φ48	500-630	300-400	400-500
Φ42	Φ49	Φ54	800	500-630	630

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■ Product connection diagram



seperatable connector and bushing

Product model and name

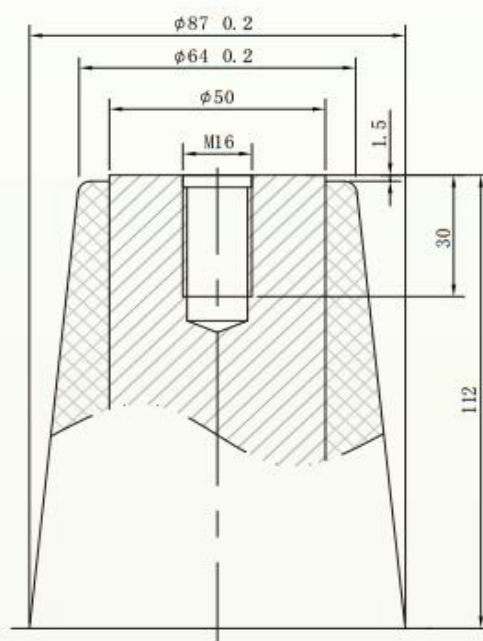
AQT-66/630 66kV front connector
AQT-66/1250 66kV front connector
AHT-66/630 66kV rear connector
AHT-66/1250 66kV rear connector
AJM-66/ 66kV insulating cap
66kV F-type inflatable cabinet bushing
(66kV F-type 2 way bushing)
TGF18S-66/(TGF18L-66/)

bushing interface:F

66kV rear arrester
66kV test cable
straight type test connectors
AMTF-33(36)/2500-□ Shielded busbar expansion system
AMTF-35(40.5)/2500-□ Shielded busbar expansion system
AMTF-66(72.5)/2500-□ Shielded Bus Expansion System

Reference standards

IEC 60502.4
IEC 60137
GB/T 4109-2008
GB/T 12706.4-2008
EN 50181:2010
HD 629.1 S2:2006
IEC 60840



AJM-35(40.5)/600 Insulating Cap

■ application

for installation in bushing, socket, spare, inlet and outlet ports, so that it is insulated and sealed.

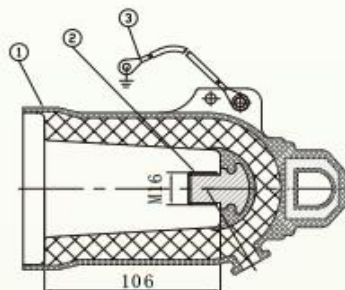
■ Technical characteristics

Provide insulation protection for live casing, and provide dustproof and moisture-proof for non-charged casing Protection.
Fully insulated, fully sealed, fully shielded, touchable; Excellent electrical performance.

bushing
interface: E

■ Design diagrams

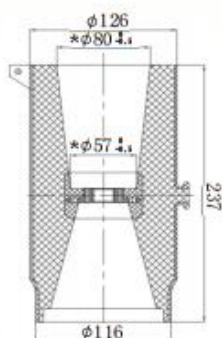
- (1) Insulating cap body
Contains: Conductive inner layer
Insulating layer
conductive outer layer
- (2) lug
- (3) Grounding wire



■ Model description

Model specifications	Rated voltage (kV)	bushing rated current(A)
AJM -35(40.5)/600	40.5	600

AJM-66/ 66kV insulating cap



Applied to offshore wind power application 66kV system, to the band Electric bushings provide insulation protection for uncharged bushings For dustproof, moisture-proof protection

Through the connector, the rear connector and F-type interface can be realized The device is connected efficiently.

F-type interface in accordance with EN 50181 and En50613 standards;

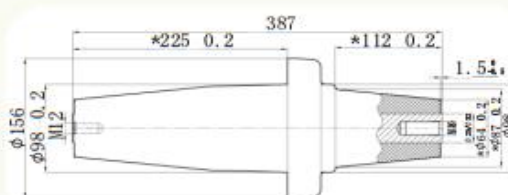
Ambient temperature range -45°C to 120°C;

EPDM material has good high voltage resistance, scratch resistance, tear resistance, anti-friction and other characteristics;

Can be touched with electricity – EPDM outer sheath with good grounding.

EPDM has excellent seawater corrosion resistance; UV resistance, direct sunlight resistance, ozone resistance, chemical resistance (acid and other ...);

66kV F-type inflatable cabinet bushing (66kV F-type double way bushing) TGF18S-66/(TGF18L-66/)



Through different two designs, two casings used in different environments are realized.

66kV F type inflatable cabinet sleeve (TGF18-66S) is used for sulfur hexafluoride gas-insulated switchgear equipment and cable connection.

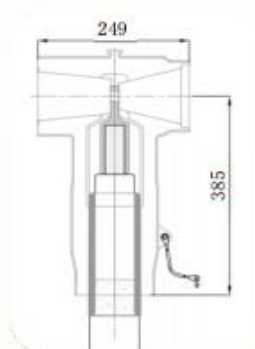
66kV F type double way sleeve (TGF18-66L) realizes the connection between cables through the front connector, which is equivalent to a variable diameter cable intermediate joint.

Technical parameters

project	Rated voltage	Rated current	Power frequency withstand voltage	Partial discharge	Sensing capacitance
TGF18-66S	66kV	630/1250A	160kV/1min	87kV≤5pC	50±3pF
TGF18-66L	66kV	630/1250A	160kV/1min	87kV≤5pC	70±3pF

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AQT-66/630 66kV front connector AQT-66/1250 66kV front connector

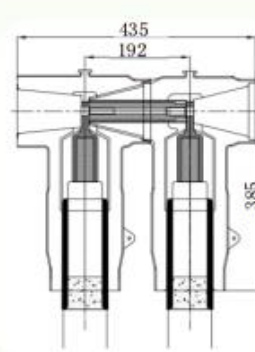


Suitable for 38/66(72.5) kV single core copper (aluminum) conductor, XLPE insulated (EPDM) cables, The conductor cross-section is 95-1200mm². F-type interface according to EN 50181 and EN 50673 standards;

The product has passed 1000 hours salt spray test and anti-mold test.

The product performance index is much higher than the international standard IEC60840.

AHT-66/630 66kV rear connector AHT-66/1250 66kV rear connector



Suitable for 38/66(72.5) kV single core copper (aluminum) conductor, XLPE insulated (EPDM) cables, The conductor cross-section is 95-1200mm². Matching AP-Hongshang brand 66kV front connector;

Multiple lines can be expanded freely.

Compact structure, suitable for cable room depth within 450mm.

The product performance index is much higher than the international standard IEC60840.

■ Technical parameters

project	Rated voltage (kV)	Rated current (A)	Power frequency withstand voltage	Partial discharge	Lightning strikes (15 each ±)
International standard IEC60840	66	630/1250	95kV /30min	57kV≤10pC	325kV
Enterprise standards	66	630/1250	160kV/30min	87kV≤5pC	350kV

66kV Test cable

application

It is suitable for electrical performance test of 66kV class gas-insulated switch, transformer and other electrical equipment equipped with F-type interface bushing, and can be used many times. The length can be customized according to user needs.

Executive standards: IEC60840-2010, GB7674-2008

Factory specifications:

Power frequency withstand voltage: 160kV/1min

Partial discharge: 87kV<5pC



ANSY-66

straight type testing connectors

application

The product is used for electrical performance testing of switches and transformers and other equipment (power frequency withstand voltage, partial discharge).

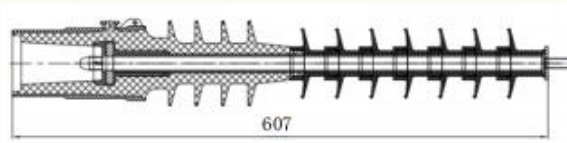
Including C-type, E-type, F type and other standard adapter casing corresponding to the test joint.

The application voltage level is 10kV-66kV.

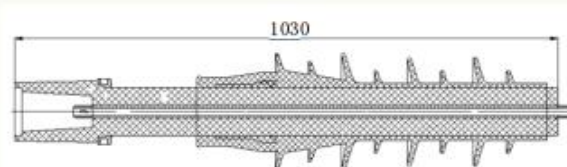
Among them, the combination of 66kV straight type test connector and front connector can also be used to test the power frequency withstand voltage of the cable on site.



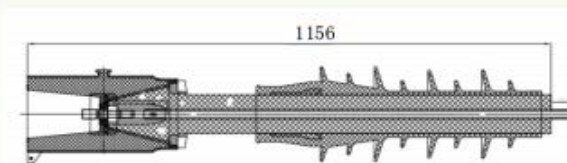
15(24)kV630A
straight type testing connector AZCSY-15(24)/630



35kV630A
straight type testing connector AZCSY-35/630



66kV straight type testing connector AZCSY-66



66kV rear connector with surge arrester



Applied in offshore wind power application 66kV system, protect the line from operation or lightning overvoltage damage.

Applied to this arrester connected behind the front and rear joints of AP-Hhongshang brand. After the arrester is installed, the vertical bottom needs to be fixed with a bracket to avoid the product due to gravity caused by the matching error.

NO	name		/	/	/
	Model:		CSAP-A72.5/196	YH10W-84/221	YH10W-90/235
1	Rated voltage (kV)		72	84	90
2	Continuous Operating Voltage (kV)		58	67.2	72.5
3	DC 1mA Reference Voltage(kV)		103	121	130
4	Rated frequency(Hz)		50	50	50
5	Nominal peak discharge current(kA)		10	10	10
6	Peak Operating Inrush Current(kA)		0.5	0.5	0.5
7	Resistive current(mA)		0.2	0.2	0.2
	Full current(mA)		1.0	1.0	1.0
8	Power frequency reference current peak(mA)		1	1	1
9	Power frequency reference voltage(kV)		72	84	90
10	0.5x nominal discharge current at peak residual voltage (kV)		183	207	220
11	Peak residual voltage (kV) at 1x nominal discharge current		196	221	235
12	2x Peak residual voltage (kV) at nominal discharge current		220	248	264
13	Peak residual voltage (kV) under operating shock		183	188	201
14	Peak residual voltage (kV) under steep wave impact		226	254	264
15	2ms square wave flow capacity (20 times) (A)		600	600	600
16	4/10μS High Current Surge Withstand (kA)		100	100	100
17	Resistor chip specifications, number of pieces (mm)		D53	D53	D53
18	The core size (Ø diameter x length) adopts the enhanced 203 packaging process		φ60×604	φ60×646	φ60×695
19	ageing characteristic	temperature	110℃	110℃	110℃
		Duration	1000h	1000h	1000h
		Charge rate	85%	85%	85%

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AMTF-33(36)/2500-□

Shielded busbar expansion system

AMTF-35(40.5)/2500-□

Shielded busbar expansion system

AMTF-66(72.5)/2500-□

Shielded busbar expansion system

■ application

The bus bar expansion system is the primary bus bar connection of the ring network cabinet, which is completely isolated outside the cabinet, fully sealed connection. The mounting position can be on the top, bottom or side.

■ Technical characteristics

Fully insulated, fully sealed, fully shielded structure connection;
It can avoid the safety hazards caused by harsh environment.

Multiple ring network cabinets can be connected in series, and the length can be arbitrarily customized.

bushing interface: F

■ Design diagrams



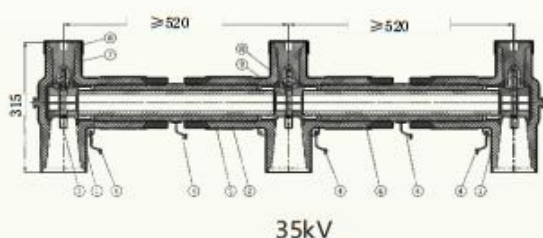
Cross-connector APS-35



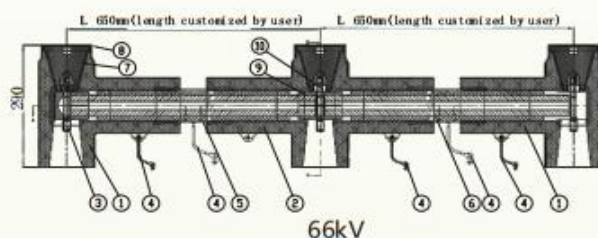
Shielded busbar AMX-35/2500



3 way connector APD-35



35kV



66kV

(1) 3 way connector body
Contains: conductive inner layer
insulating layer
conductive outer layer

(2) Cross connector body
Contains: conductive inner layer
insulating layer
conductive outer layer

(3) studs
(4) Grounding wire
(5) Busbar
(6) Busbar

(7) Insulating plugs
(8) Φ83 cap
(9) Bearings
(10) Nuts/flat, spring pads

■ Model description

Model specifications	Rated voltage(kV)	Rated current(A)	Cabinet unit
AMTF-33(36)/2500-□	36	2500	≥2
AMTF-35(40.5)/2500-□	40.5	2500	≥2
AMTF-66(72.5)/2500-□	72.5	2500	≥2

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AMTF-33(36)/2500-□

Shielded busbar expansion system

AMTF-35(40.5)/2500-□

Shielded busbar expansion system

AMTF-66(72.5)/2500-□

Shielded busbar expansion system

■ application

The bus bar expansion system is the primary bus bar connection of the ring network cabinet, which is completely isolated outside the cabinet, fully sealed connection. The mounting position can be on the top, bottom or side.

■ Technical characteristics

Fully insulated, fully sealed, fully shielded structure connection;
It can avoid the safety hazards caused by harsh environment.

Multiple ring network cabinets can be connected in series, and the length can be arbitrarily customized.

bushing interface: F

■ Design diagrams



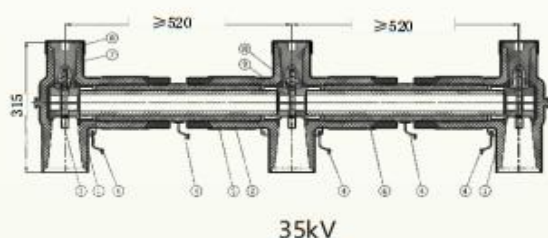
Cross-connector APS-35



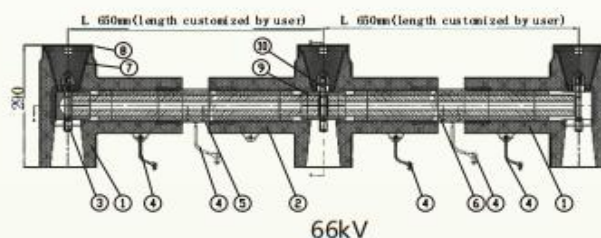
Shielded busbar AMX-35/2500



3 way connector APD-35



35kV



66kV

(1) 3 way connector body
Contains: conductive inner layer
insulating layer
conductive outer layer

(2) Cross connector body
Contains: conductive inner layer
insulating layer
conductive outer layer

(3) studs
(4) Grounding wire
(5) Busbar
(6) Busbar

(7) Insulating plugs
(8) Φ83 cap
(9) Bearings
(10) Nuts/flat, spring pads

■ Model description

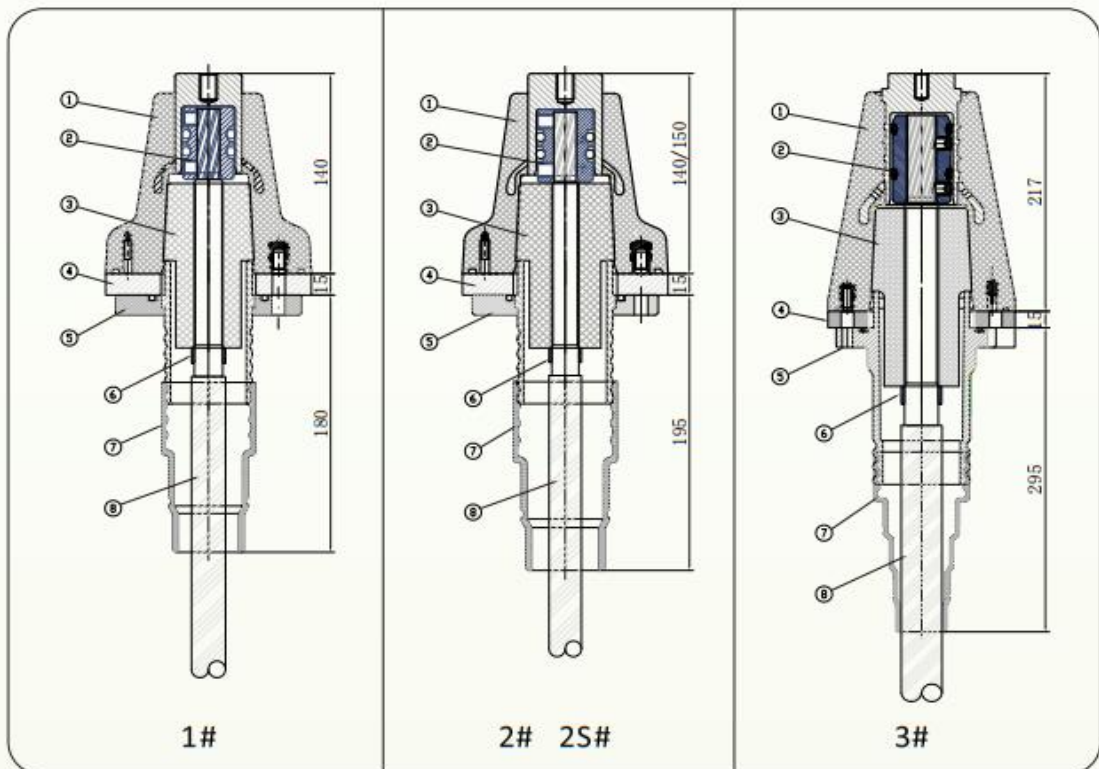
Model specifications	Rated voltage(kV)	Rated current(A)	Cabinet unit
AMTF-33(36)/2500-□	36	2500	≥2
AMTF-35(40.5)/2500-□	40.5	2500	≥2
AMTF-66(72.5)/2500-□	72.5	2500	≥2

ACBN-35(40.5)-□ 35kV inner cone plug-in termination

■ application

Matching sockets: 1#, 2#, 2S#, 3#

The advantages of 35kV inner cone plug-in terminal are very prominent in high-voltage systems; This makes the installation site more simple, and the factory test software is also economical and safe; Reduce GIS and complex gas or insulating oil treatment work on transformers.



Name: 3# inner cone plug-in terminal
Model: ACBN-35/□



Name: 1#/2#2S# Inner cone plug-in terminal
Model: ACBN-35/□

AMT-35(40.5)-□ 35kV inner cone dommy

application

The 35kV inner cone dommy provides insulation for the 35kV ring network cabinet Protection, when the 35kV GIS system leaves a spare outlet, It must be sealed with a 35kV inner cone head.

Reference standards

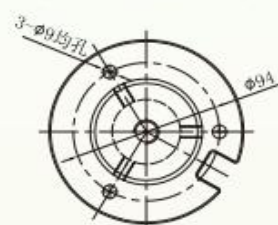
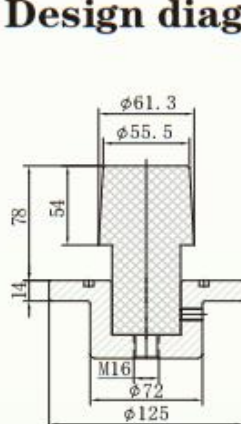
GB/T 12706.4

IEC 60502-4

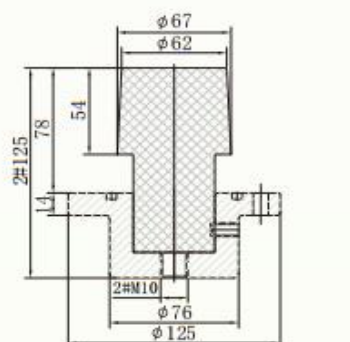
Matching sockets:

1#、2#、2S#、3#

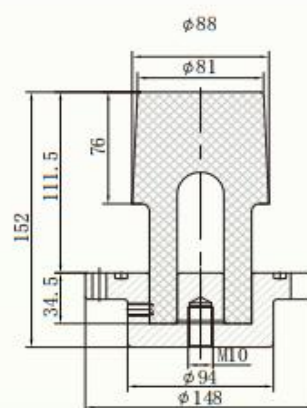
Design diagrams



AMT-35-1#
35kV1#dommy



AMT-35-2#(2S#)
35kV2#dommy



AMT-35-3#
35kV3#dommy

Technical parameters:

Product Model	Rated Voltage(kV)	Power frequency withstand voltage	partial discharge	Mounting hole diameter (mm)
AMT-35(40.5)-1#	35	117kV/5min	45kV≤10pC	Ø 94
AMT-35(40.5)-2#	35	117kV/5min	45kV≤10pC	Ø 102
AMT-35(40.5)-2T#	35	117kV/5min	45kV≤10pC	Ø 102
AMT-35(40.5)-(2S#)	35	117kV/5min	45kV≤10pC	Ø 95
AMT-35(40.5)-3#	35	117kV/5min	45kV≤10pC	Ø 130

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■ Technical parameters:

Model specifications	ACBN-35(40.5)-1#	ACBN-35(40.5)-2#	ACBN-35(40.5)-2S#	ACBN-35(40.5)-3#
Rated voltage(kV)	35	35	35	35
Rated current(A)	630	800	1250	1250
Power frequency withstand voltage (kV/5min)	117	117	117	117
Partial discharge (kV≤10pC)	45	45	45	45
Lightning impulse voltage (kV)	200	200	200	200
Thermally stable current (kA/2s)	23	23	23	23
Dynamic Stable Current (kA/10ms)	83	83	83	83
Cable cross-section range (mm ²)	50-150	50-400	50-400	50-630
Mounting hole center diameter (mm)	94	102	95	130

■ Table of corresponding holes in the stress cone and cable:

35kV 1# inner cone	Inner bore diameter	Ø18.5	Ø21	Ø23	Ø25	Ø27	Ø30	Ø33		
	Insulation diameter	20-22.4	23.1-25.5	26.2-27.8	28.5-28.6	30.7-32.5	33.1-35.1	36.1-39.6		
	8.7/15kV cross-section	70-95mm ²	120-150mm ²	185mm ²	240mm ²	300mm ²	400mm ²	500mm ²		
	12/20kV cross-section	50-70mm ²	95-120mm ²	150mm ²	185mm ²	240mm ²	300mm ²	400mm ²		
	18/30kV(19/33)		35mm ²	50-70mm ²	95mm ²	120-150mm ²	185mm ²	240-300mm ²		
	26/35kV cross-section					50mm ²	70-95mm ²	120-150mm ²		
35kV 2# inner cone	Inner bore diameter	Ø18.5	Ø21	Ø23	Ø25	Ø27	Ø30	Ø33	Ø37	Ø40.5
	Insulation diameter	19.5-22.4	22.5-24.7	24.7-25.5	26.2-27.8	28.5-29.5	30.7-33.7	34-36.9	38-40.2	41.5-44.7
	8.7/15kV cross-section	70-95mm ²	120mm ²	150mm ²	185mm ²	240mm ²	300-400mm ²	500mm ²	630mm ²	
	12/20kV cross-section	35-70mm ²	95mm ²	120mm ²	150mm ²	185mm ²	240-300mm ²	400mm ²	500mm ²	630mm ²
	18/30kV(19/33)			35mm ²	50-70mm ²	95mm ²	120-150mm ²	185-240mm ²	300mm ²	400-500mm ²
	26/35kV cross-section						50-70mm ²	95-120mm ²	150-185mm ²	240-400mm ²
35kV 3# inner cone	Inner bore diameter	Ø27	Ø30.5	Ø33	Ø35	Ø38.5	Ø40.5	Ø44.5	Ø48	Ø52
	Insulation diameter	28.5-30.9	31.5-34	34-36	36.1-38.5	39.3-41.5	41.9-44.7	46-48	50-52	53-56
	8.7/15kV cross-section	240-300mm ²	400mm ²		500mm ²	630mm ²	800mm ²			
	12/20kV cross-section	185-240mm ²	300mm ²	400mm ²		500mm ²	630mm ²			
	18/30kV(19/33)	95-120mm ²	150-185mm ²		240-300mm ²	400mm ²	500mm ²	630mm ²		
	26/35kV cross-section		50-70mm ²	95mm ²	120-150mm ²	185mm ²	240-300mm ²	400mm ²	500mm ²	630mm ²

■ Parameter design diagram

- (1) 35kV inner cone socket , (2) copper contact , (3) 35kV inner cone plug-in terminal ,
 (4) inner cone socket mounting plate , (5) inner cone protective shell , (6) Semi-conductive belt step ,
 (7) protective sleeve , (8) power cable

■ Reference standards

IEC 60502.4

HD 629.1 S2:2006

GB/T 12706.4-2008

IEC 60099.4-2006

IEC 60137

GB/T 4109-2008

EN 50181:2010

35(40.5)kV inner cone socket

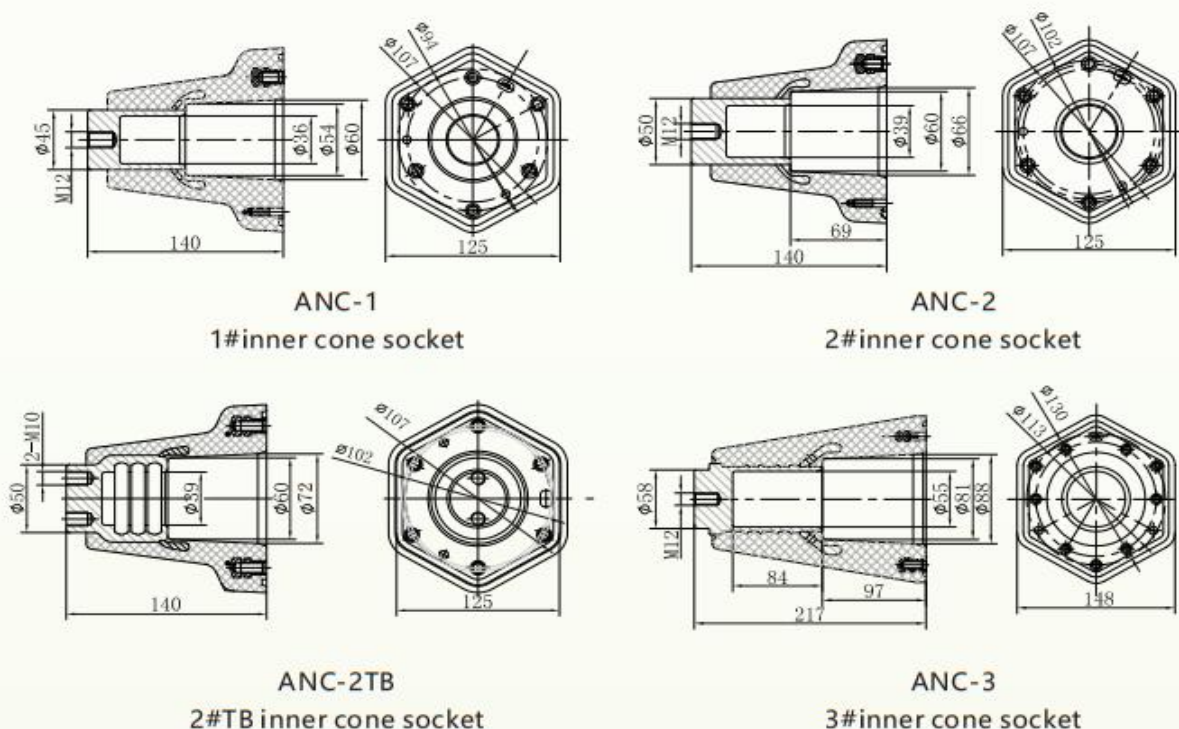
application

35kV inner cone insulated socket is suitable for high-voltage introduction connection of C-GIS cabinet, and can be used for cabinet body. The inner SF6 gas medium is effectively sealed; Compact design, suitable for indoor and outdoor use, fully insulated, free Maintenance, connection dimensions in accordance with DIN47637.

Reference standards

GB/T 12706.4
IEC 60502-4

Design diagrams



Technical parameters:

Product model	Rated voltage(kV)	Rated current(A)	Power frequency withstand voltage	Partial discharge
ANC-1 1#	35	630	117kV/5min	45kV≤10pC
ANC-2 2#	35	800	117kV/5min	45kV≤10pC
ANC-2TB 2#TB	35	1600	117kV/5min	45kV≤10pC
ANC-3 3#	35	1250	117kV/5min	45kV≤10pC

AHY5WT□-42/120

inner cone plug-in arrester

AHY5WZ□-51/134

inner cone plug-in arrester

■ application

The inner cone plug-in arrester provides lightning protection and overvoltage protection for C-GIS equipment, which can effectively ensure the safe operation of the power grid.

■ Technical characteristics

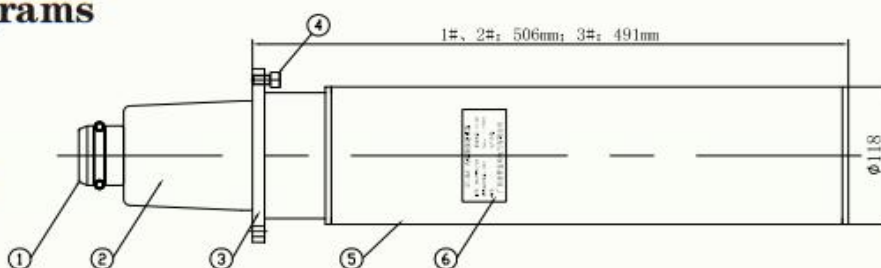
Metal shell shielding, the lower end is equipped with an energy release valve, fully sealed, large flow capacity.

■ Reference standards

GB 11032-2010
IEC 60099-4:2006

■ Design diagrams

- (1) Contacts
- (2) adaptor
- (3) flange
- (4) Grounding bolts
- (5) Explosion-proof metal cylinder
- (6) Product nameplate



■ Model description

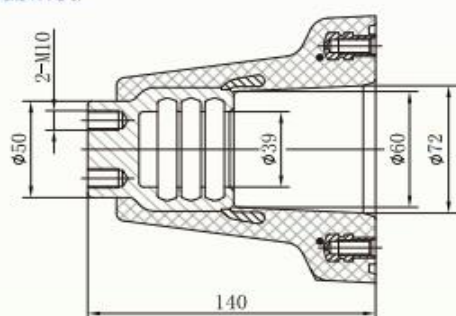
Name	Model	AHY5WT□-42/120	AHY5WZ□-51/134	Other customized models
System nominal voltage (kV)		27.5	35	
Rated voltage(kV)		42	51	
Continuous Operating Voltage (kV)		34	40.8	
Residual voltage (kV) under lightning impulse current		120	134	
Voltage U _{1mA} at 1mA DC ≥(kV)		65	73	
Leakage Current ≤ at 0.75U _{1mA} (μA)		50	50	
2ms square wave shock capacity (A)		600	600	
Partial discharge (≤10pC) corresponds to voltage		36	45	

AML-2TB-35(40.5)/1600 2#TB busbar connector AMD-35(40.5)/2500 Type I busbar connector

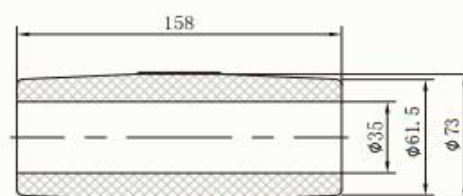
■ application

35kV bus connector is suitable for 35kV GIS system parallel cabinet connection, compact structure, large flow rate, is the preferred solution for 35kV combined ring network cabinet.

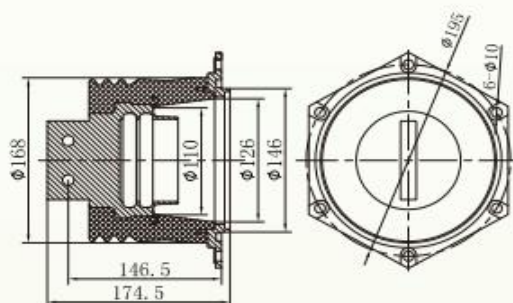
The 35kV dommy is used on the 35kV expandable ring network cabinet to provide dustproof, sealing and insulation protection for the ring network cabinet that does not need to be expanded temporarily.



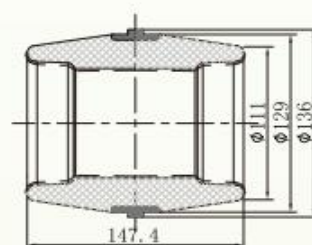
2# TB inner cone socket



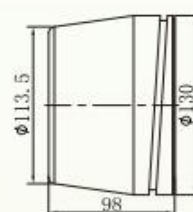
2# TB busbar connector



MZI-35/2500 35kV Type I busbar socket



AMDL-35/2500 35kV Type I busbar connector



AMDL-35-135kV Type I dommy

■ Specifications and standards

The products adopt the standards GB/T 12706.4 and IEC 60502-4.
Technical parameters of side busbar expansion system (see the table below)

Product name	Rated voltage (kV)	Rated current (A)	Power frequency withstand voltage	Partial discharge	clearance between cabinets(mm)
AML-2TB-35(40.5)/1600	40.5	1600	117kV/5min	45kV≤10pC	30
AMDL-35(40.5)/2500	40.5	2500	117kV/5min	45kV≤10pC	≤5

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AMZ1-15(24)	Type I busbar socket
AMZ2-15(24)	Type II busbar socket
AMZ3-15(24)	Type III busbar socket

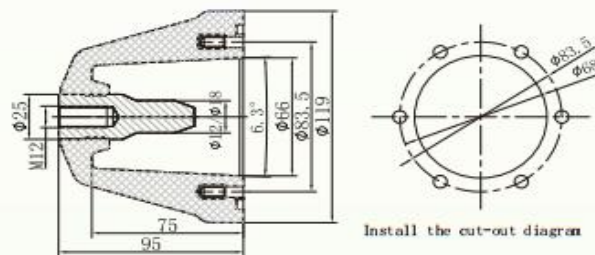
■ application

Bus socket is used for 10kV to 24kV power system, when the side of the ring network cabinet is extended for multi-division When the support is connected in series and merged, it is used as a side expansion busbar interface, which is compact and easy to install. Type I busbar socket is used by Orma Jiabao, Tianling, Hoston and Shantou Zhengchao cabinet; Type II busbar socket is used for alpha, Galaxy Dikang, and Cree cabinet type; Type III busbar socket is used for Baosheng, radio and television, and Huadian cabinet type.

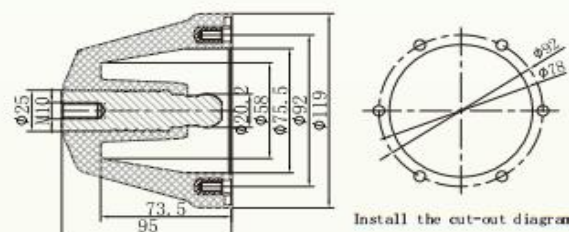
■ Reference standards GB/T 12706.4 IEC 60502-4

■ Design diagrams

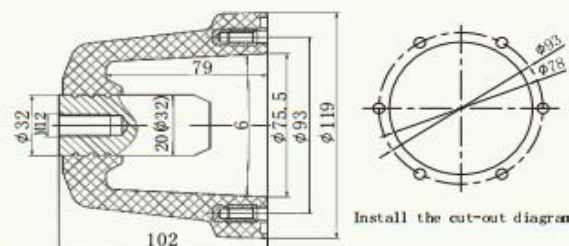
AMZ1-15(24)/630-12(18)
Type I busbar socket



AMZ2-15(24)/630
Type II busbar socket



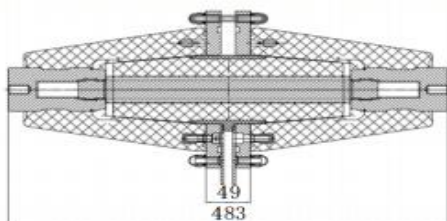
AMZ3-15(24)/630(1250)
Type III busbar socket



■ Technical parameters:

Product name	Rated voltage(kV)	Rated current(A)	Power frequency withstand voltage	Partial discharge
AMZ1-15(24)	15(24)	630	39(54)kV/5min	15(20)kV≤10pC
AMZ2-15(24)	15(24)	630	39(54)kV/5min	15(20)kV≤10pC
AMZ3-15(24)	15(24)	630(1250)	39(54)kV/5min	15(20)kV≤10pC

AML-3T-66/ 66kV busbar connector

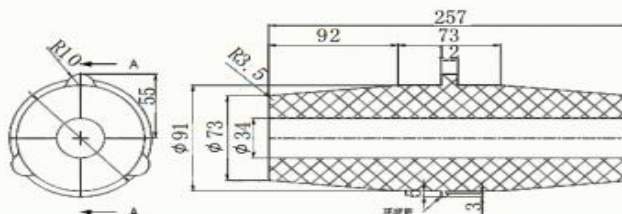


Design diagrams

66kV busbar connector is used in the primary busbar connection of the side parallel cabinet busbar expansion system, and realizes fully insulated, fully sealed and fully shielded connection outside the cabinet. Installed on the side of power switchgear or in other special positions.
Rated current 630-1250A



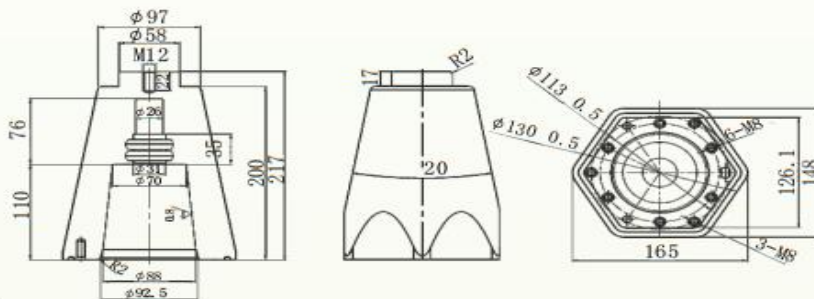
Name: 66kV busbar connector
Model: AML-3T-66/



66kV busbar connector



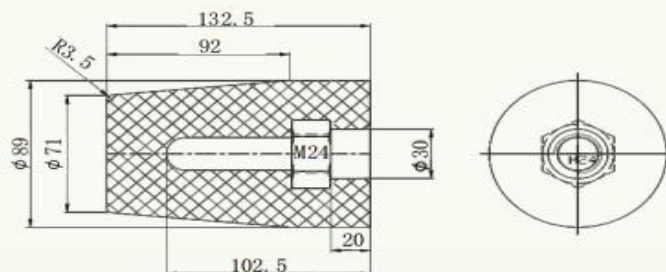
Name: 66kV busbar connector
Model: AML-3T-66/



66kV inner cone socket (1250A)



Name: 66kV stuffy
Model: AMD-3T-66



66kV dommy

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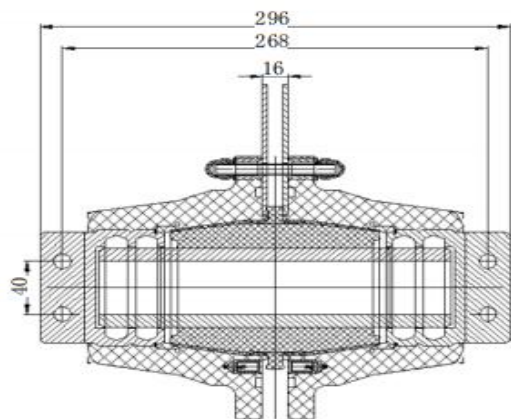
AML-15/2500 15KV2500A bus connector
AML-35/2500 35KV2500A bus connector

■ application

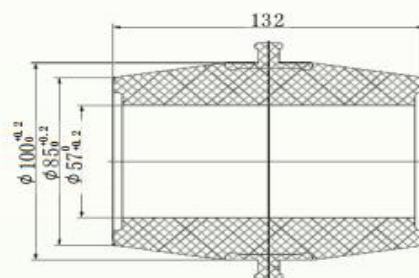
10-35kV/2500A side parallel cabinet bus bar extension system connection, fully insulated, fully sealed, fully shielded connection outside the cabinet. Installed on the side of power switchgear or in other special positions.



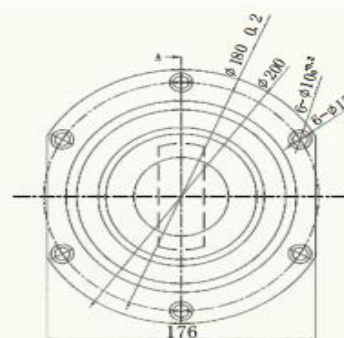
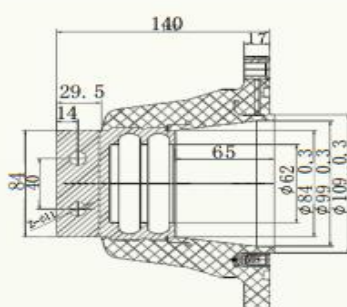
Name: 35kV2500A busbar connector
Model: AML-15(35)/2500



Schematic diagram
of the consolidation cabinet



Name: 35kV2500A busbar socket
Model: AMC-35/2500



ALN(W)-15-□/□ cold shrink cable termination

ALN(W)-24-□/□ cold shrink cable termination

ALN(W)-35-□/□ cold shrink cable termination

■ application

Full cold shrinking technology, no need for fire and special tools, only need to extract the core rope, its own elastic retraction, can be applied to a variety of cable diameters, strong compatibility; The imported liquid silicone rubber is adopted, the insulation is reliable, and the cable body is the same as "breathing"; It is widely used and can be used in various harsh environments.

6.35kV/11(12)kV
8.7kV/15(17.5)kV
12kV/20(24)kV
18kV/30(36)kV
19kV/33(36)kV
26kV/35(40.5)kV

15kV full cold shrink indoor terminal		24kV full cold shrink indoor terminal		35kV full cold shrink indoor terminal	
Model specifications	Cable section(mm²)	Model specifications	Cable section(mm²)	Model specifications	Cable section(mm²)
ALN-15-1(3)x25-50	25-50	ALN-24-1(3)x35-95	35-95	ALN-35-1(3)x35-70	35-70
ALN-15-1(3)x70-120	70-120	ALN-24-1(3)x120-240	120-240	ALN-35-1(3)x95-185	95-185
ALN-15-1(3)x150-240	150-240	ALN-24-1(3)x300-400	300-400	ALN-35-1(3)x240-400	240-400
ALN-15-1(3)x300-400	300-400	ALN-24-1(3)x500-630	500-630	ALN-35-1(3)500x630	500-630
ALN-15-1(3)x500-630	500-630				

15kV full cold shrinkable outdoor terminal		24kV full cold shrinkable outdoor terminal		35kV full cold shrinkable outdoor terminal	
Model specifications	Cable section(mm²)	Model specifications	Cable section(mm²)	Model specifications	Cable section(mm²)
ALW-15-1(3)x25-50	25-50	ALW-24-1(3)x35-95	35-95	ALW-35-1(3)x35-70	35-70
ALW-15-1(3)x70-120	70-120	ALW-24-1(3)x120-240	120-240	ALW-35-1(3)x95-185	95-185
ALW-15-1(3)x150-240	150-240	ALW-24-1(3)x300-400	300-400	ALW-35-1(3)x240-400	240-400
ALW-15-1(3)x300-400	300-400	ALW-24-1(3)x500-630	500-630	ALW-35-1(3)x500-630	500-630
ALW-15-1(3)x500-630	500-630				

■ Main test parameters of cable termination:



Rated voltage(kV)	15	24	35
1min outdoor terminal rain power frequency voltage test	35kV	48kV	104kV
5min power frequency withstand voltage test	39kV	54kV	117kV
Partial discharge test	15kV≤10pC	20kV≤10pC	45kV≤10pC
Constant voltage load cycle voltage test (air)	23kV	30kV	65kV
Lightning impulse withstand voltage test	95kV	125kV	200kV
15min AC withstand voltage test	23kV	30kV	65kV
Outdoor terminal salt spray test	11kV/1000h	15kV/1000h	32.5kV/1000h
Indoor terminal salt spray test	11kV/300h	15kV/300h	32.5kV/300h

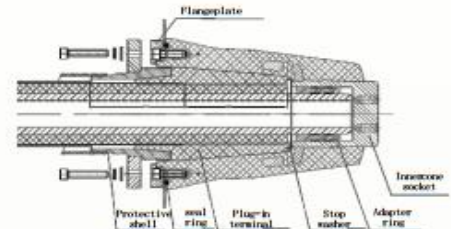
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35kV4#inner cone plug-in terminal

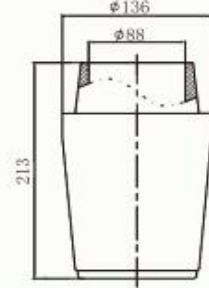
■ application

Suitable for standard 4# inner cone socket interface gas-insulated switch, transformer and other electrical equipment with Tube busbar connection. Suitable for copper pipe diameter and insulation diameter: $\Phi 60\text{mm}$ and $\Phi 90\text{mm}$ respectively; Rated current: 3150A

The product is injected by our unique stress material, and the body is a one-piece structure, which reduces the error requirements of the fracture position of the pipe bus bar or cable shield. The unique pressing structure makes the product easier to install and more reliable.



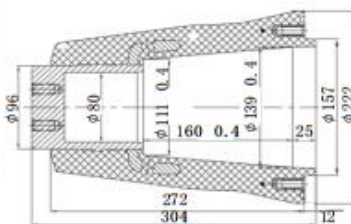
Assembly diagram



model : ACBN35- $\Phi 88$

35kV4#inner cone socket

4# inner cone socket, suitable for inflatable ring network cabinet and shielded pipe busbar and connection, The rated current is 3150A, and the diameter can be matched with $\Phi 60\text{mm}$ and $\Phi 80\text{mm}$.



35kV4#inner cone dommy



model : AMT35-4

Equipment connection and test cables

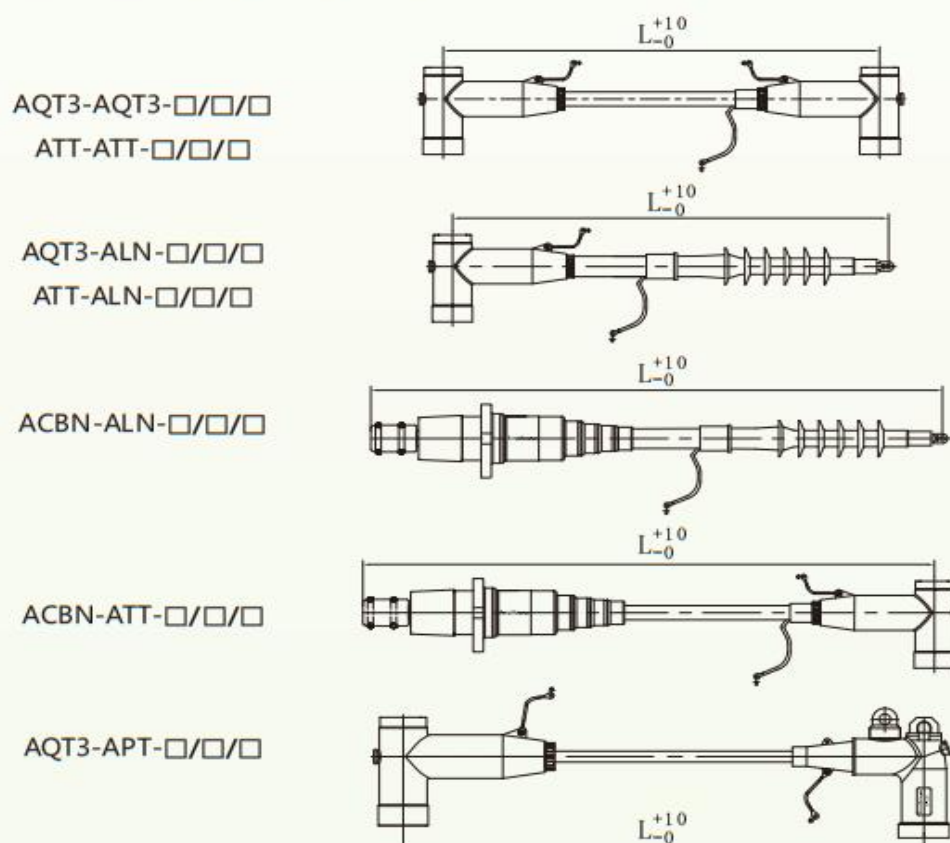
■ application

Equipment connection cable is a cable assembly used to connect different modules inside the complete set of equipment, so that they are connected to play their respective roles.

■ Model description

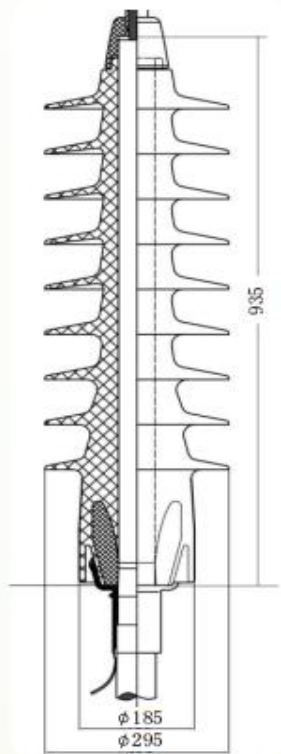
Model Specifications	Name	Voltage Level (kV)	Length (mm)	Cross-section(mm ²)
AQT3-AQT3-□/□/□	Cable tray	15~24	≥450	25-500
ATT-ATT-□/□/□	Cable tray	35	≥550	50-500
AQT3-ALN-□/□/□	Test cable	15~24	≥550	25-500
ATT-ALN-□/□/□	Test cable	35	≥700	50-500
ACBN-ALN-□/□/□	Test cable	15~35	≥600	50-500
ACBN-ATT-□/□/□	Test cable	15~35	≥600	50-500
AQT3-APT-□/□/□	PT bridge	15~24	≥400	25-50

■ Structural components



ALW-66KV/ 38/66kV dry outdoor terminal

66kV cold shrinkable outdoor terminal installation only need to pull out the support strip, no need for fire and other special tools. Its product performance meets the relevant requirements of IEC 60840, GB/T 11017 and other standards, and is tested by the National Wire and Cable Quality Supervision and Inspection Center according to the standard type test items, so the project testing is all qualified.

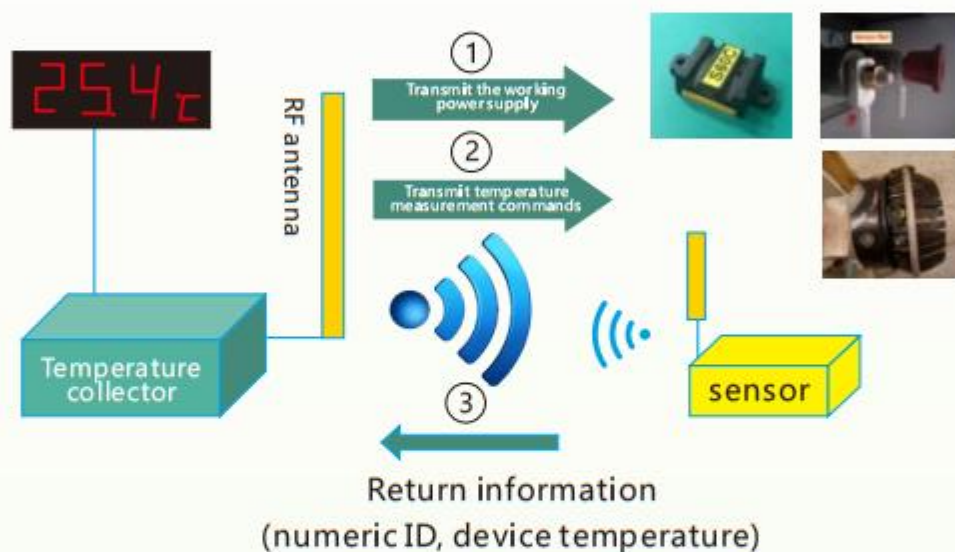


Design diagrams

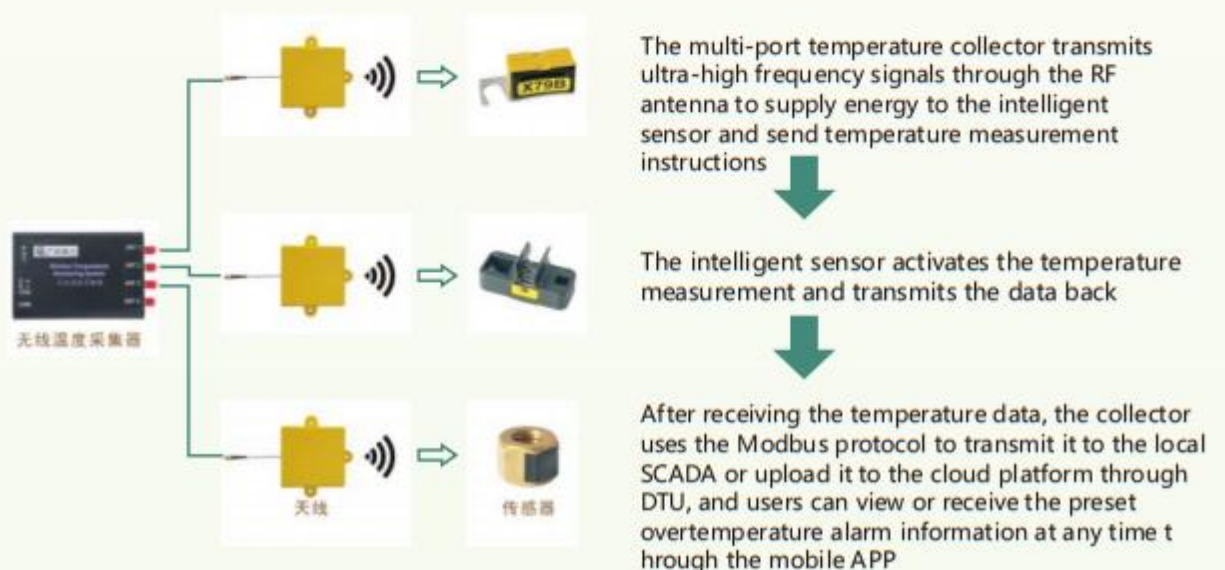
- A: This product adopts imported German WACKER silicone rubber, which has good insulation properties.
- B: Stable performance, good sealing performance and reliable insulation performance, long-term normal operation under the partial discharge value $\leq 5\text{pC}$.
- C: Large surface leakage distance and strong stain resistance ensure safe operation in harsh conditions and high pollution environments.
- D: The terminal is formed at one time, and there will be no phenomenon that the creepage distance of the split terminal is suddenly reduced due to the segmentation of the terminal body.
- E: Simple installation, small size, light weight, suitable for any angle installation.
- F: There will be no damage caused by the explosion of cable accessories such as porcelain sleeve terminals for some reason.
- G: Lifelong maintenance-free, the terminal does not need filling liquid, the leakage phenomenon is eliminated, and there is no need to be equipped with special maintenance personnel during the service life.
- H: Long service life, 30 years.

Wireless passive temperature measurement technology

■ Schematic diagram of the principle of miniaturized wireless passive temperature measurement based on RFID



■ Miniaturized temperature measurement product architecture based on RFID technology



Wireless passive temperature measurement technology



Reader



Antenna



Temperature Sensors

■ Nut type sensor

The nut sensor is embedded in the cable connector nut, which can directly contact and measure the conductor temperature in the cable head, and the installation and use of the sensor does not damage or change the insulation structure of the electrical equipment in the original ring network cabinet.



Installation method: replace ordinary nuts



■ Insulating plug sensor

Closely adhere to the metal connector inside the plug of the ring network cabinet, poured inside the epoxy resin; It can also be glued to the surface of other temperature measurement points.



Product parameters

Read distance (EIRP=4W)	1.5m
Operating temperature	-40°C~+150°C
The environment is resistant to temperature	-40°C~+225°C
IP protection rating	Ip55
Typical application background	Nuts/plugs
Warranty	One year
Insulation resistance	≥2000MΩ
Power frequency withstand voltage	95kV/1min
Partial discharge level	45kv≤10pC
Lightning strike protection rating	170kV/50ms
Radiated immunity rating	≥10V/m