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Euromold a Nexans company





EUROMOLDCOMPANY PRESENTATION













EUROMOLD

Euromold is the leading European specialised designer, manufacturer and distributor of prefabricated cable accessories for medium voltage energy distribution. Euromold provides a complete range of accessories for underground cables: pre-moulded EPDM or silicone rubber connectors, terminations and joints for cables and epoxy bushings for transformers and switch gear, as well as a large range of cold-shrinkable terminations and joints from 12 to 42 kV.

Euromold is also the manufacturer of electrical components for the high voltage accessories of the Nexans group.

ISO 9001 Certificate

Since 1992, Euromold's commitment to quality is demonstrated by its ISO 9001 certification.

International standards

All our products meet the International standards like CENELEC HD 629.1, CENELEC EN 50180, IEC 137, IEEE 386 & 404... or country specifications. Official certificates, CESI, KEMA, ATEX... prove the conformity of our products. Long duration tests of existing or new products are continuously performed in our test fields.

Laboratory accreditation

Since June 2000, Euromold's independent ELAB laboratory obtained the BELTEST accreditation no.192-T-ISO 17025 conform with the European standards for laboratories ISO 17025 for electrical testing of medium voltage cable accessories according to the International standards IEC 61442 and HD 629.

While every care is taken to ensure that the information contained in this publication is correct, no legal responsibility can be accepted for any inaccuracy. EUROMOLD NV reserves the right to alter or modify the characteristics of its products described in this catalogue as standards and technology evolve.



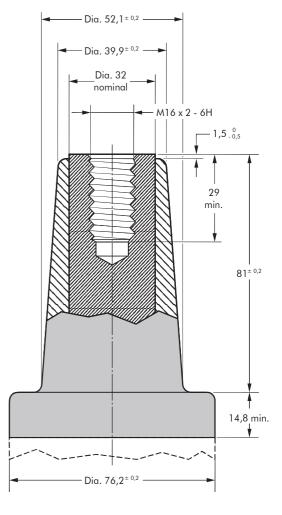
SEPARABLE CONNECTORS AND BUSHINGS INTERFACE D

I Table of contents

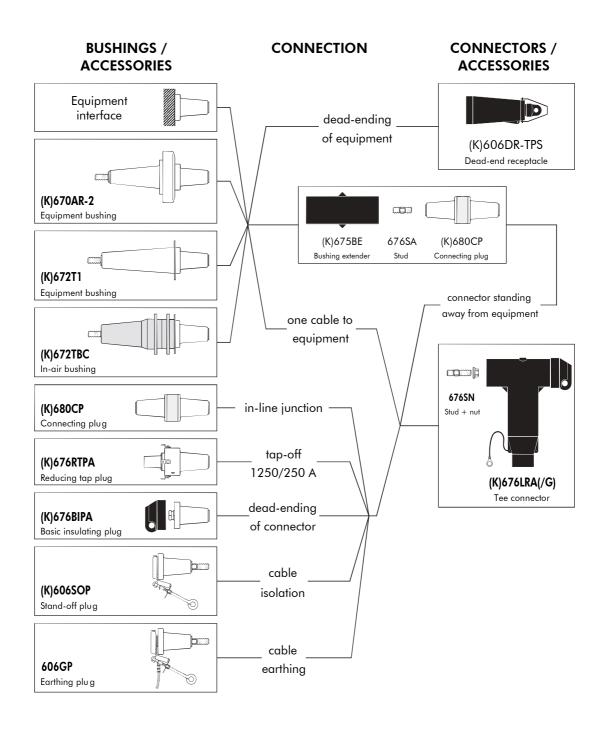
676LRA - tee connector
670AR-2 - equipment bushing
672T1 - equipment bushing
672TBC - in-air bushing
Accessories
Possible arrangements
Fixings for equipment bushings

Interface D

Dimensions according to European CENELEC EN 501810 and 50181 (in mm).



I Connecting possibilities







676LRA INTERFACE D TEE CONNECTOR

Up to 24 kV - 1250 A

Application

Separable tee connector designed to connect polymeric insulated cable to equipment (transformers, switch gear, motors...).

Also connects cable to cable, using the appropriate mating part.

Technical characteristics

- A thick conductive EPDM jacket provides a total safe to touch screen.
- Each separable connector is tested for AC withstand and partial discharge prior to leaving the factory.

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

Design

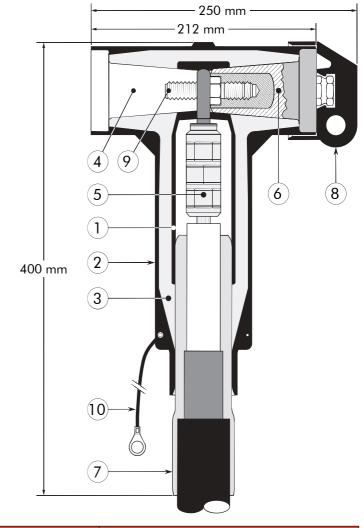
Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type D 1250 A interface as described by CENELEC EN 50180 and 50181.
- 5. Conductor connector.
- 6. Basic insulating plug (with VD point).
- 7. Cable reducer.
- 8. Conductive rubber cap.
- 9. Threaded stud.
- 10. Earthing lead.

The screen break design enables cable outer sheath testing without removing or dismantling the connector.

Specifications and standards

The separable connector 676LRA meets the requirements of CENELEC HD 629.1.

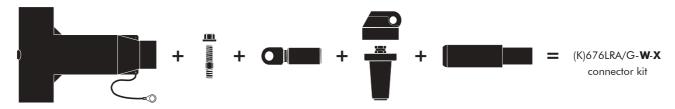


Separable connector	Voltage Um	Current Ir	Conductor	sizes (mm²)
type	(kV)	(A)	min.	max.
676LRA/G K676LRA/G	12 24	1250 1250	50 35	630 630

Kit contents

The complete (K)676LRA tee connector kit comprises the following components:

The kit also comprises lubricant, wipers, installation instructions and crimp chart.



Connector housing (K)650BLR/G

Threaded stud + nut 676SN Conductor contact TBC-**X**

Basic insulating plug + rubber cap (K)676BIPA Cable reducer 611CA-**W**

Ordering instructions

Select the part number which gives the best centring to the cable core insulation diameter.

Add a 'K' for use up to 24 kV.

Table W

Ordering	Dia. over core insulation (mm)		
part number	min.	max.	
676LRA/G- 15- X	16.0	22.0	
676LRA/G-19- X	20.0	26.5	
676LRA/G-22- X	23.5	31.0	
676LRA/G-27- X	28.5	37.5	
676LRA/G-32- X	34.0	42.5	
676LRA/G-37- X	39.0	48.5	
676LRA/G-43- X	45.5	56.0	

Table X

Conductor sizes	Aluminium conductor		Copper conductor	
(mm ²)	DIN hexagonal	Deep indent	DIN hexagonal	
35	35(K)M-1 2-2	35KM-12-1	35(K)M-11-2	
50	50(K)M-1 2-2	50(K)M-1 2-1	50(K)M-11-2	
70	70(K)M-1 2-2	70(K)M-1 2-1	70(K)M-11-2	
95	95(K)M-1 2-2	95(K)M-1 2-1	95(K)M-11-2	
1 20	120(K)M-1 2-2	120(K)M-12-1	120(K)M-11-2	
1 50	150(K)M-1 2-2	150(K)M-12-1	150(K)M-11-2	
185	185(K)M-1 2-2	185(K)M-12-1	185(K)M-11-2	
240	240(K)M-1 2-2	240(K)M-12-1	240(K)M-11-2	
300	300(K)M-1 2-2	300(K)M-12-1	300(K)M-11-2	
400	400(K)M-1 2-2	400(K)M-12-1	400(K)M-11-2	
500	500(K)M-1 2-2	500(K)M-12-1	500(K)M-11-2	
630	_	630(K)M-12-1	630(K)M-11-2	

Example:

The copper wire screened cable is 24 kV, 630 mm² stranded aluminium with a diameter over core insulation of 44.0 mm.

Order a K676LRA/G-37-630KM-12-1 tee connector kit.



For use with copper tape screened cables. Order: Kit MT.



For use with Alupe or C 33-226 cables. Please contact our representative.



For use in potentially explosive atmospheres (for 12 kV max.). Order: -/ATEX.



For use with other cable types.
Please contact our representative.



For outdoor applications.
Order: +MWS.



Components can be ordered individually.





670AR-2 **EQUIPMENT BUSHING**

Application

For use in equipment insulated with oil fluid, typically for transformers, switch gear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

Up to 24 kV - 1250 A

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

Design

The equipment bushing is a moulded epoxy insulated part in accordance with CENELEC EN 50180.

Specifications and standards

The bolted type equipment bushings 670AR-2 meet the requirements of IEC 137.

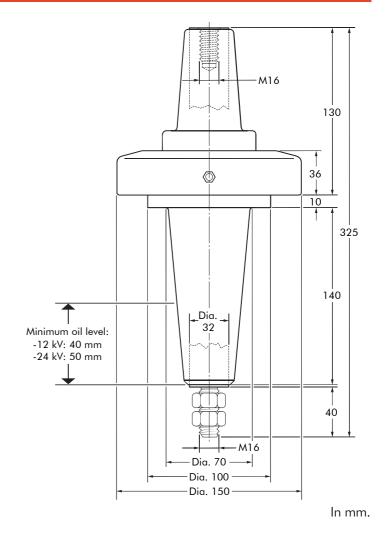
Ordering instructions

To order the equipment bushing, specify the type. The bushing are supplied with an earth lead (/J) or a earth plate (/GS). This earth connection must be specified when ordering.

E.g. K670AR-2/GS.

For use in potentially explosive atmospheres (for 12 kV max.).

Order: -/ATEX.



Equipment bushing type	Voltage Ur (kV)	Current Ir (A)
670AR-2	12	1250
K670AR-2	24	1250



672T1 INTERFACE D EQUIPMENT BUSHING

Application

For use in equipment insulated with oil fluid, typically for transformers, switch gear, capacitors...

I Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory. Up to 24 kV - 1250 A

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

Design

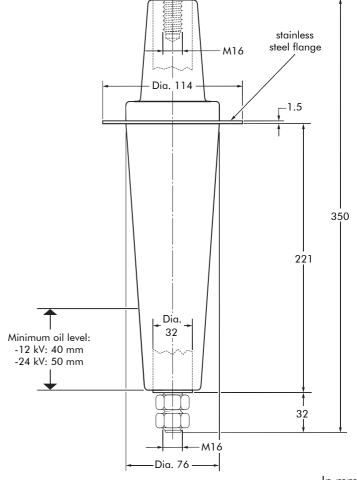
The equipment bushing is a moulded epoxy insulated part in accordance with CENELEC EN 50180.

Specifications and standards

The bolted type equipment bushings 672T1 meet the requirements of IEC 137.

I Ordering instructions

To order the equipment bushing, specify the type. For use in potentially explosive atmospheres (for 12 kV max.). Order: -/ATEX.



In mm.

Equipment bushing type	Voltage Ur (kV)	Current Ir (A)
672T1	12	1250
K672T1	24	1250



672TBC EQUIPMENT BUSHING

Application

For use in equipment insulated with air, typically for transformers, switch gear, capacitors...

Technical characteristics

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

Up to 24 kV - 1250 A

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

Design

The equipment bushing is a moulded epoxy insulated part in accordance with CENELEC EN 50181.

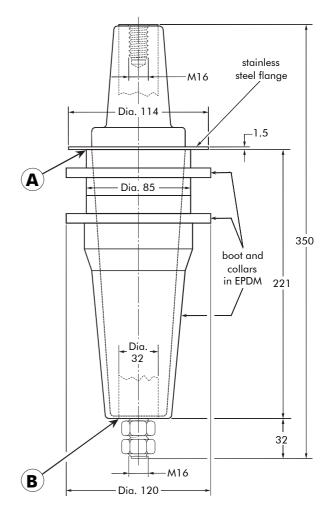
Non-tracking insulating rubber boot and collars slip over the bushing shank.

Specifications and standards

The bolted type equipment bushings 672TBC meet the requirements of IEC 137.

Ordering instructions

To order the equipment bushing, specify the type. For use in potentially explosive atmospheres (for 12 kV max.). Order: -/ATEX.



In mm.

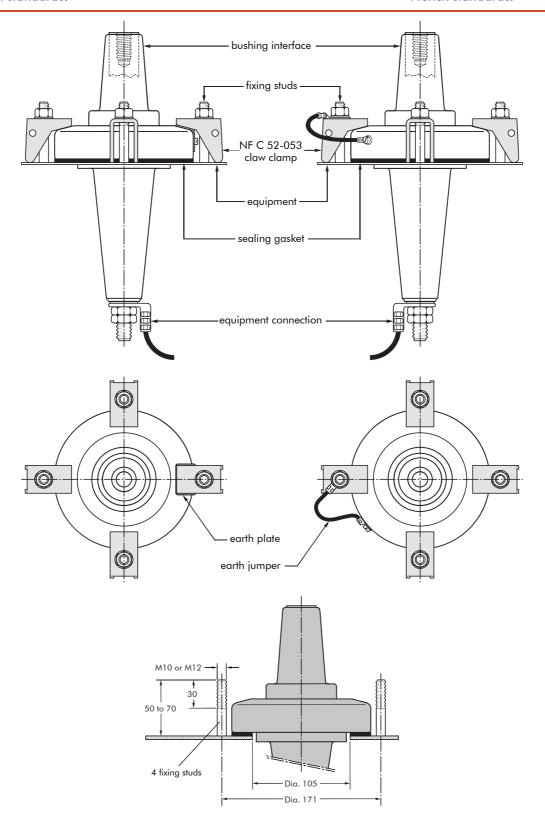
Equipment bushing type	Voltage Ur (kV)	Current Ir (A)	Creepage distance A-B (mm)
672TBC	12	1250	300
K672TBC	24	1250	300



FIXINGS FOR EQUIPMENT BUSHINGS INTERFACE D

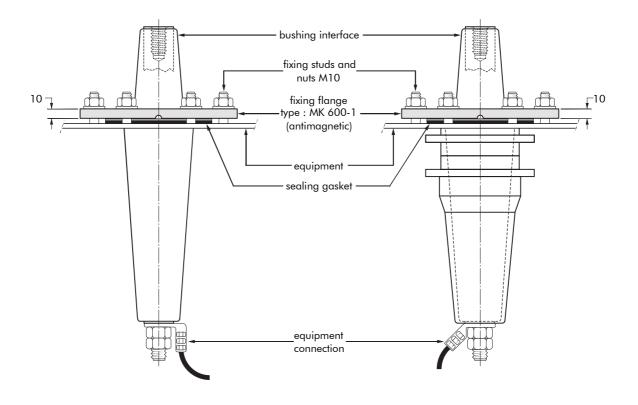
670AR-2/GS bushing

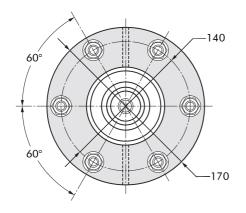
NFC 52-053 French standards. 670AR-2/J bushing NFC 52-053 French standards.

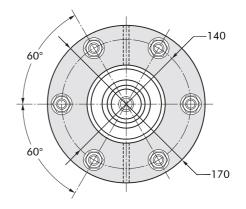


672T1 bushing

672TBC bushing









ACCESSORIES INTERFACE D

Application

For use with connectors and bushings with an interface D as described by CENELEC EN 50180 and 50181.

Technical characteristics

All these products, except the earthing plug, are tested for AC withstand and partial discharge prior to leaving the factory.

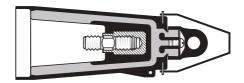
Up to 24 kV

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

606DR-TPS Dead-end receptacle

Fits over a bushing with a type D interface to provide 'dead-end' facility.

Contains a capacitive test point for checking circuit conditions.



I Ordering instructions

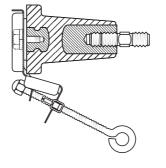
Order 606DR-TPS for 12 kV or K606DR-TPS for 24 kV applications.

The dead-end receptacle can be supplied with an earth lead. Order: -/G.

E.g. 606DR-TPS/G.

l 606SOP Stand-off plug

Is designed to support and 'dead-end' connectors with a type D interface when removed from equipment.

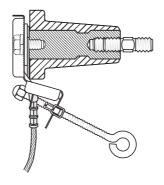


I Ordering instructions

Order 606SOP for 12 kV or K606SOP for 24 kV applications.

606GP Earthing plug

Is designed to support and earth connectors with a type D interface when removed from equipment.

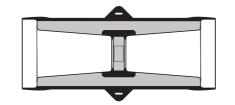


Ordering instructions

Order 606GP for 12 or 24 kV applications.

675BE Bushing extender

Provides an extension piece to allow cables to stand away from equipment. Is used in conjunction with the 680CP connecting plug.

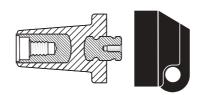


Ordering instructions Order

Order 675BE for 12 kV or K675BE for 24 kV applications.

676BIPA Basic insulating plug

Acts as a tightening nut for the 676LRA/G tee connector kits. The plug contains a voltage detection point.
The conductive rubber protection cap is included.

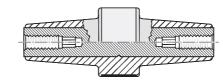


I Ordering instructions

Order 676BIPA for 12 kV or K676BIPA for 24 kV applications.

680CP Connecting plug

For connecting two or more connectors with a type D interface together, thus creating a separable cable joint or a multiple cable connection to equipment.



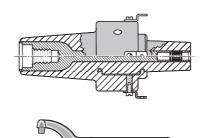
I Ordering instructions

Order 680CP for 12 kV or K680CP for 24 kV applications. Order: -/ATEX for use in potentially explosive atmospheres (for 12 kV max.).

676RTPA Reducing tap plug

Provides a type A interface to connectors with a type D interface.

A 'C' spanner, 600SW, is used to tighten the reducing tap plug on to its mating part.

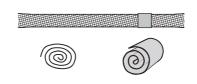


I Ordering instructions

Order 676RTPA for 12 kV or K676RTPA for 24 kV applications. Order 600SW for the 'C' spanner.

Kit MT Earthing kit for copper tape screened cables

Contains a tinned copper braid (25 mm² - L = 500 mm), a tinned copper wire for cleating and water sealing mastic.



I Ordering instructions

Order Kit MT for 12 kV or 24 kV applications.

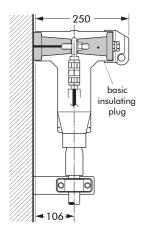




POSSIBLE ARRANGEMENTS INTERFACE D

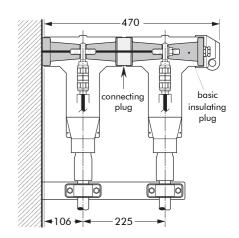
676LRA/G

Single cable arrangement. Order 676LRA/G for 12 kV or K676LRA/G for 24 kV applications.



676LRA/G-P2

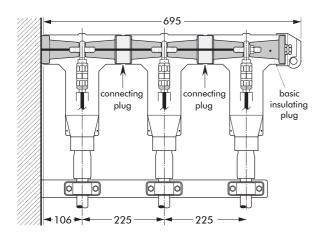
Dual cable arrangement. Order 676LRA/G-P2 for 12 kV or K676LRA/G-P2 for 24 kV applications.



676LRA/G-P3

Triple cable arrangement.

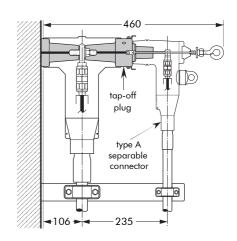
Order 676LRA/G-P3 for 12 kV or K676LRA/G-P3 for 24 kV applications.



676LRA/G-P4

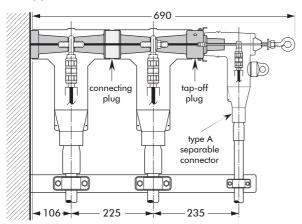
Single cable arrangement with tap-off.

Order 676LRA/G-P4 for 12 kV or K676LRA/G-P4 for 24 kV applications.



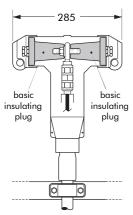
676LRA/G-P5

Dual cable arrangement with tap-off. Order 676LRA/G-P5 for 12 kV or K676LRA/G-P5 for 24 kV applications.



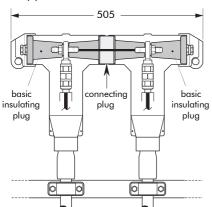
676LRA/G-L1

Dead-ending. Order 676LRA/G-L1 for 12 kV or K676LRA/G-L1 for 24 kV applications.



676LRA/G-L2

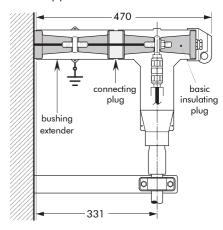
2-way connection.
Order 676LRA/G-L2 for 12 kV or K676LRA/G-L2 for 24 kV applications.



676LRA/G-P6

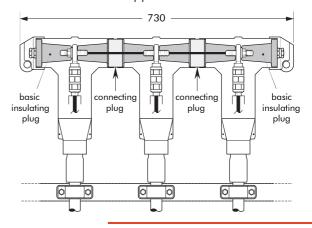
Connector standing away from equipment.

Order 676LRA/G-P6 for 12 kV or K676LRA/G-P6 for 24 kV applications.



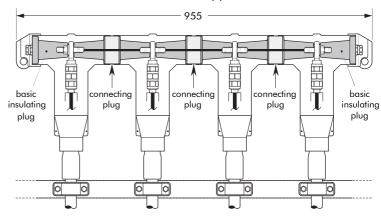
676LRA/G-L3

3-way connection.
Order 676LRA/G-L3 for 12 kV or K676LRA/G-L3 for 24 kV applications.



676LRA/G-L4

4-way connection.
Order 676LRA/G-L4 for 12 kV or K676LRA/G-L4 for 24 kV applications.

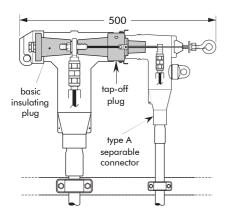




In mm.

676LRA/G-L5

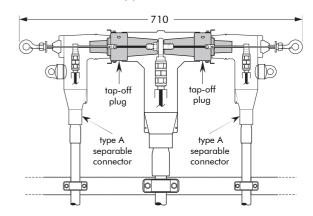
2-way connection with tap-off. Order 676LRA/G-L5 for 12 kV or K676LRA/G-L5 for 24 kV applications.



676LRA/G-L6

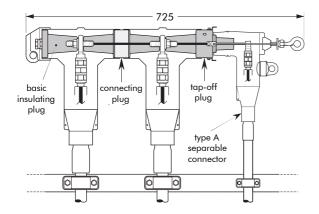
3-way connection with two tap-offs.

Order 676LRA/G-L6 for 12 kV or K676LRA/G-L6 for 24 kV applications.



676LRA/G-L7

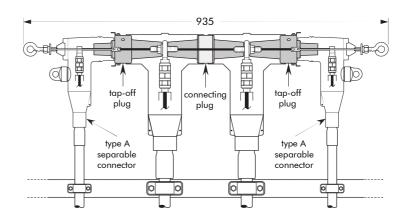
3-way connection with one tap-off.
Order 676LRA/G-L7 for 12 kV or K676LRA/G-L7 for 24 kV applications.



676LRA/G-L8

4-way connection with two tap-offs.

Order 676LRA/G-L8 for 12 kV or K676LRA/G-L8 for 24 kV applications.

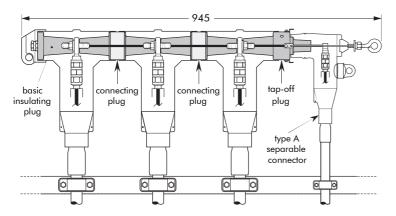




In mm.

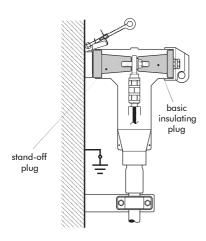
676LRA/G-L9

4-way connection with one tap-off.
Order 676LRA/G-L9 for 12 kV or K676LRA/G-L9 for 24 kV applications.



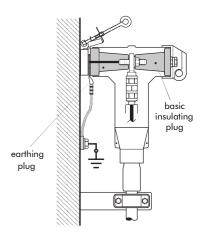
Connector on stand-off plug

Order 606SOP for 12 kV or K606SOP for 24 kV applications.



Connector on earthing plug

Order 606GP for 12 kV and 24 kV applications.





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