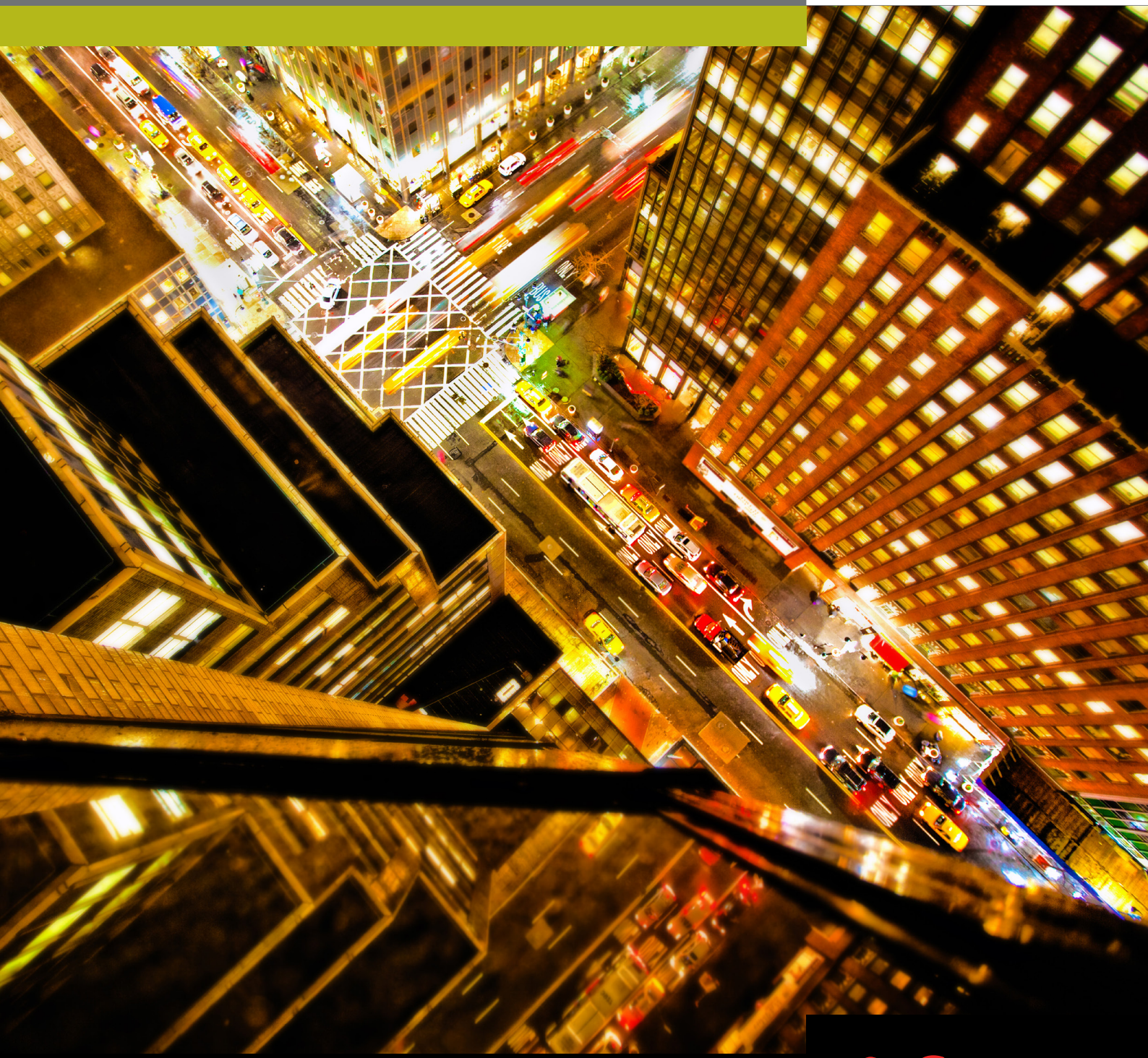
EUROMOLD®

INTERFACE D
MEDIUM VOLTAGE SEPARABLE CONNECTORS AND BUSHINGS

CATALOGUE 2020



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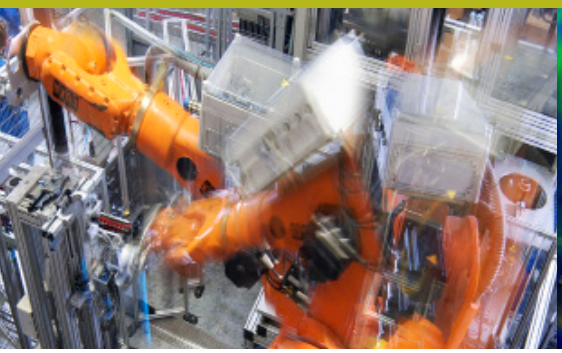
NEXANS NETWORK SOLUTIONS DIV. EUROMOLD

COMPANY 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: premoulded EPDM rubber connectors for cables and epoxy bushings for transformers and switchgear, 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 60137, IEC 60502-4... 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

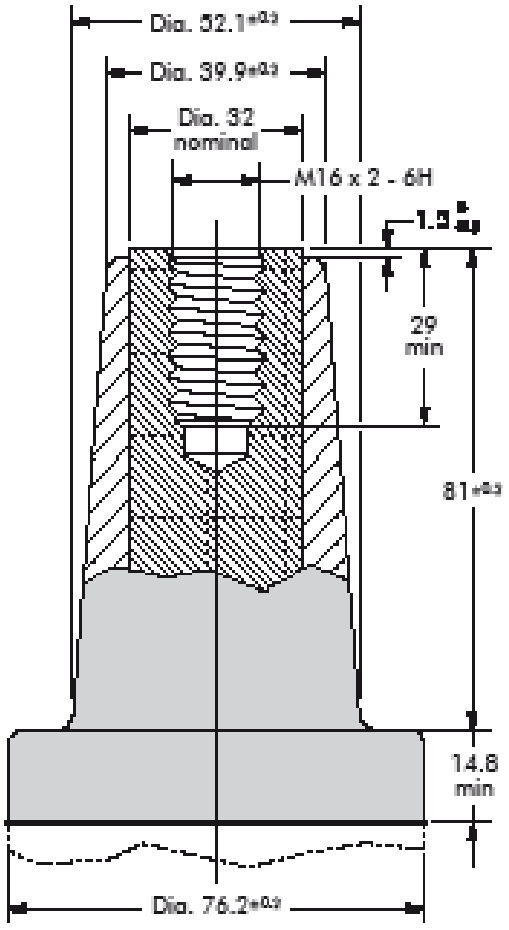
Since June 2000, Euromold's independent ELAB laboratory obtained the BELAC accreditation no.144-TEST conform with the European standards for laboratories ISO 17025 for electrical testing of low and medium voltage cable accessories according to the international standards EN 50393, IEC 60502-4, IEC 61442 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. Nexans Network Solutions N.V. - Div. Euromold 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

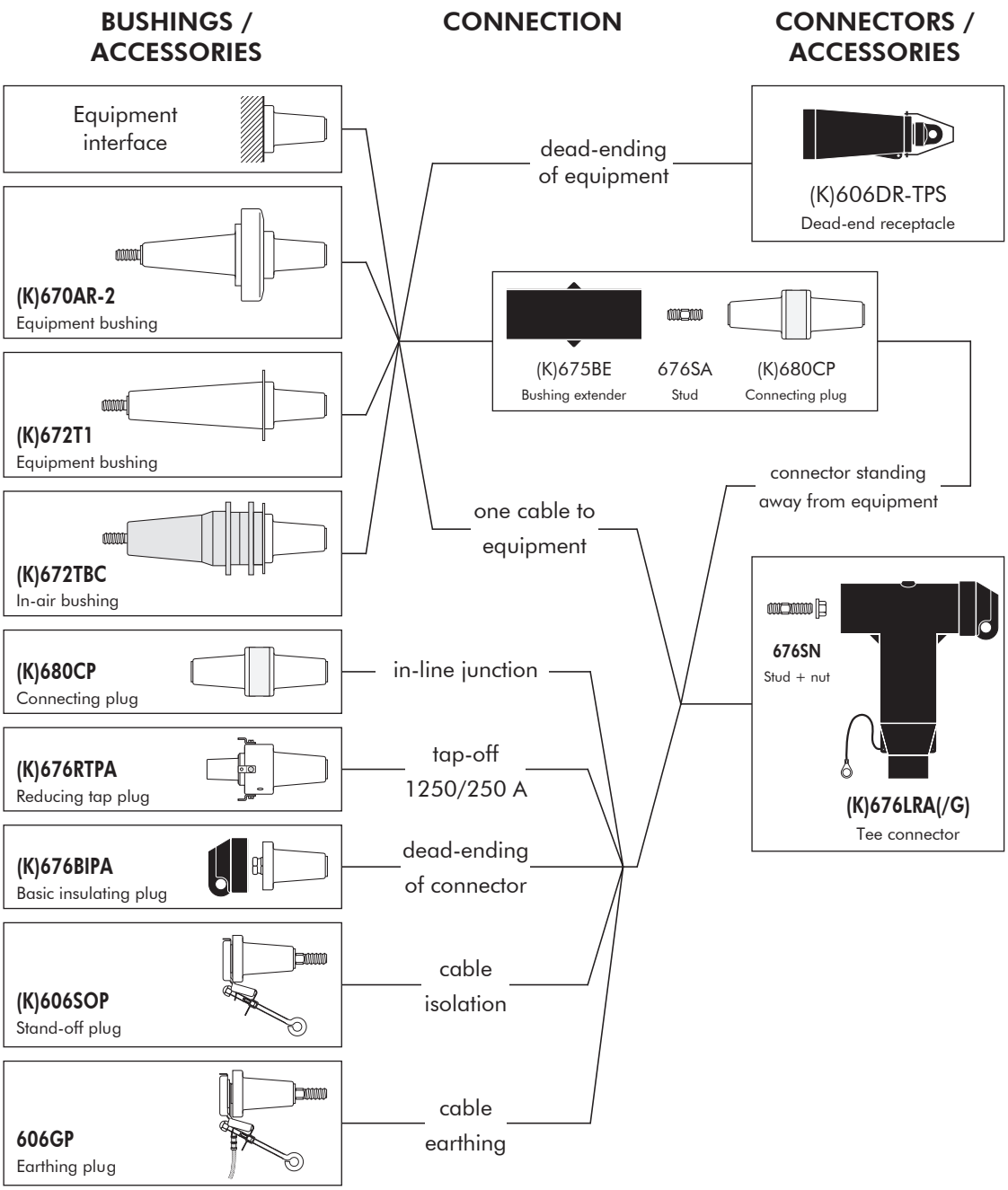
TABLE OF CONTENTS
676LRA - tee connector
670AR-2 - equipment bushing
Accessories
Possible arrangements

INTERFACE D1 & D2
Dimensions according to European CENELEC EN 50180 and 50181 (in mm).



In mm.

CONNECTING POSSIBILITIES



676LRA

INTERFACE D
TEE CONNECTOR

APPLICATION

Separable tee connector designed to connect polymeric insulated cable to equipment (transformers, switchgear, motors...).
Also connects cable to cable, using the appropriate mating part.

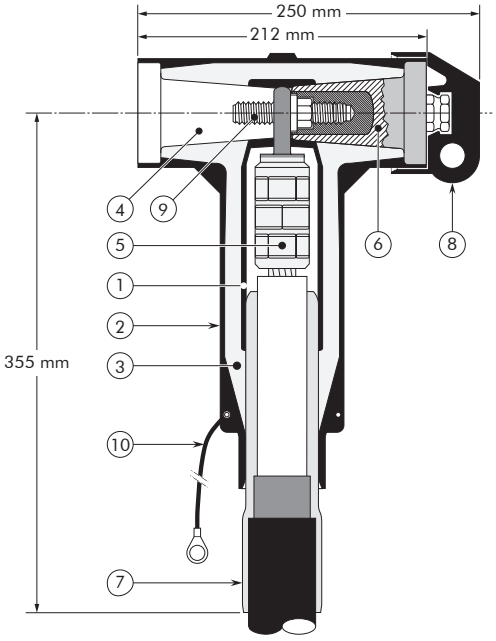
TECHNICAL CHARACTERISTICS

- 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.

DESIGN

Separable connector comprising:

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. 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 contact.
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.

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

Up to 24 kV - 1250 A

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SPECIFICATIONS AND STANDARDS

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

Separable connector type	Voltage Um (kV)	Current Ir (A)	Conductor sizes (mm^2)	
			min.	max.
676LRA/G	12	1250	50	630
K676LRA/G	24	1250	35	630

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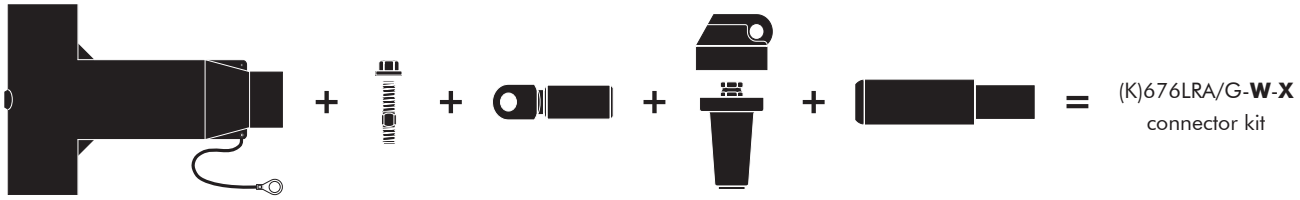
KIT CONTENTS

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

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



(K)676LRA/G-**W**-**X** connector kit

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.

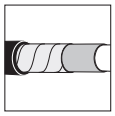
TABLE W

Ordering part number	Dia. over core insulation (mm)	
	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

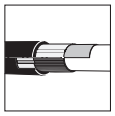
EXAMPLE:
The copper wire screened cable is 24 kV, 630 mm^2 stranded aluminium with a diameter over core insulation of 44.0 mm. Order a K676LRA/G-37-630KM-12-1 tee connector kit.

TABLE X

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



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

APPLICATION

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

TECHNICAL CHARACTERISTICS

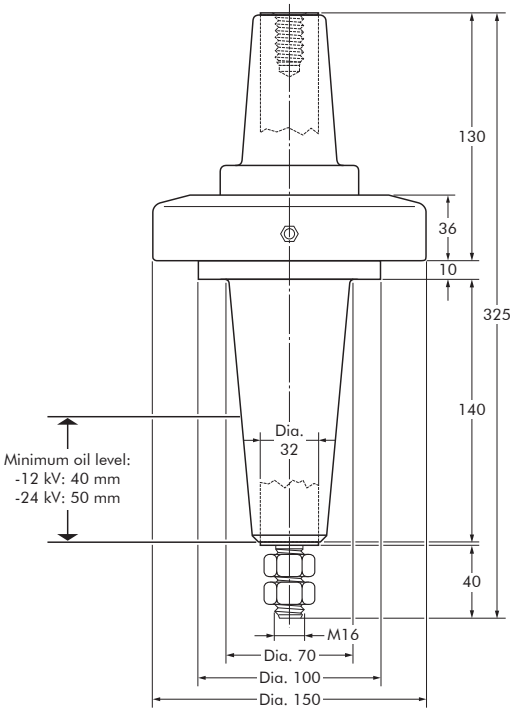
Each bushing is tested for AC withstand and partial discharge prior to leaving the factory.

SPECIFICATIONS AND STANDARDS

The bolted type equipment bushings 670AR-2 are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50180 and IEC 60137.

ORDERING INSTRUCTIONS

To order the equipment bushing, specify the type.
The bushings can be supplied with an earth jumper (/J) or an earth plate (/GS). This earth connection must be specified when ordering.
E.g. K670AR-2/GS.



In mm.

6/10 (12) kV
6,35/11 (12) kV
8,7/15 (17,5) kV
12/20 (24) kV
12,7/22 (24) kV

Up to 24 kV - 1250 A

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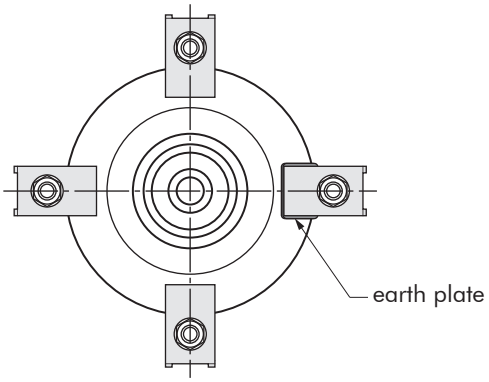
Equipment bushing type	Voltage Um (kV)	Current Ir (A)
670AR-2	12	1250
K670AR-2	24	1250

FIXINGS FOR EQUIPMENT BUSHINGS

670AR-2/GS BUSHING

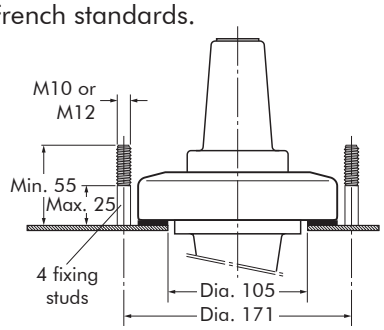


BUSHING CLAMPING KIT

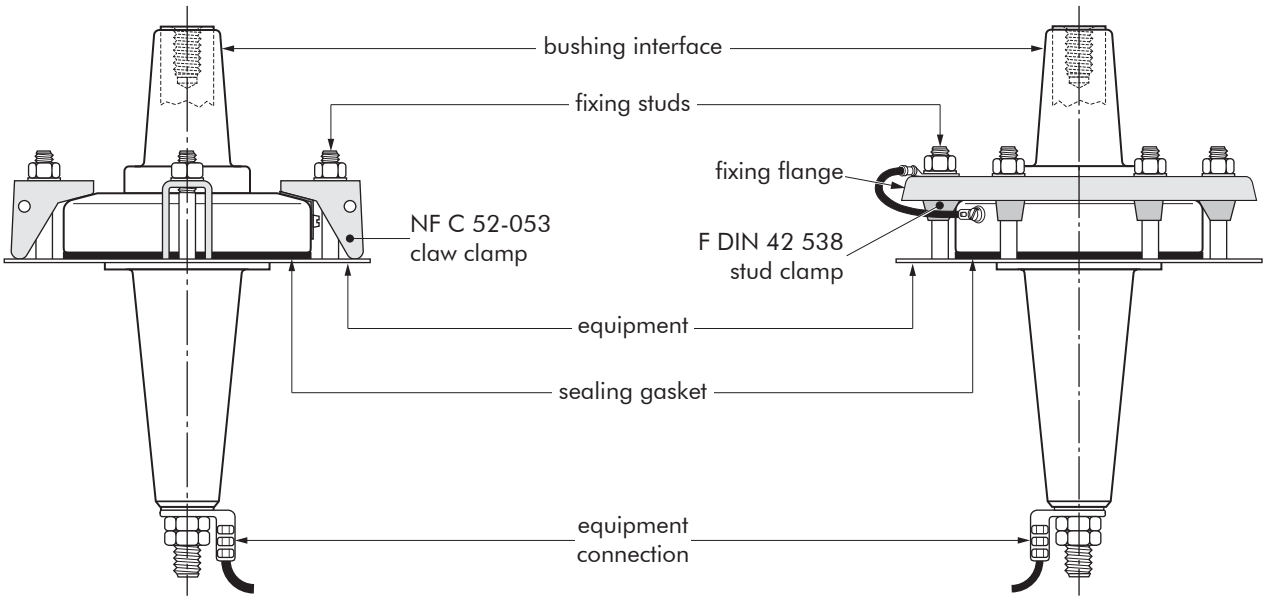
To order the bushing clamping kit, according to NFC 52-053 standards, simply specify: KBC - NFC 52-053 /400 SERIES.
Contents: - 4 x claw clamp NF
- 1 x sealing gasket.

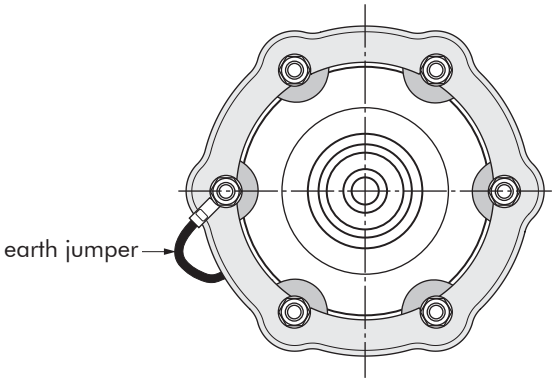
FIXING DIMENSIONS STANDARDS NF C 52-053

French standards.



670AR-2/J BUSHING

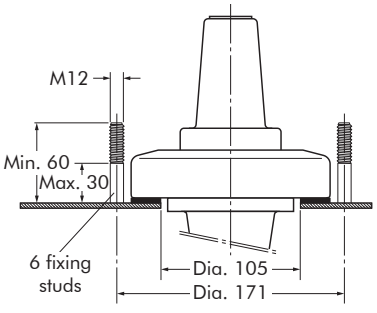




BUSHING CLAMPING KIT

To order the bushing clamping kit with DIN style fixing flange, simply specify: KBC - RING CLAMP 3.
Contents: - 1 x fixing flange
Ø150 mm
- 6 x stud clamp
F DIN 42 538
- 1 x sealing gasket.

FIXING DIMENSIONS



In mm.

ACCESSORIES

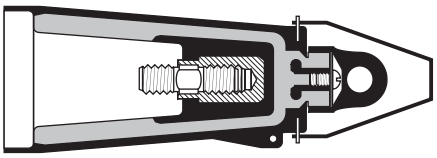
APPLICATION
For use with connectors and bushings with an interface D as described by CENELEC EN 50180 and 50181.

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

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

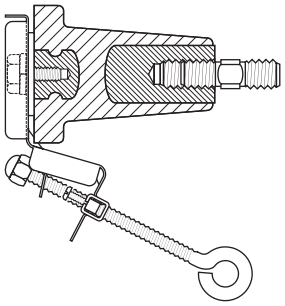
Up to 24 kV

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.



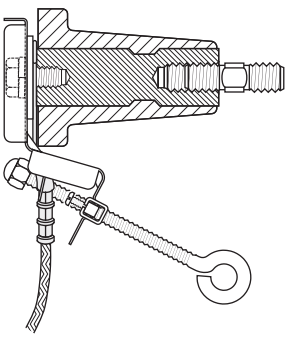
ORDERING INSTRUCTIONS
Order
606DR-TPS for 12 kV or
K606DR-TPS for 24 kV applications.
The dead-end receptacle can be supplied with an earth lead.
Order: -/G.
E.g. 606DR-TPS/G.

606SOP STAND-OFF PLUG
Is designed to support and 'dead-end' connectors with a type D interface when removed from equipment.



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.

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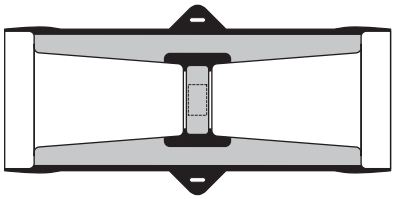
675BE
BUSHING EXTENDER

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

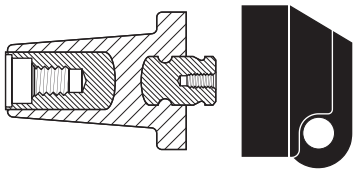


ORDERING INSTRUCTIONS

Order
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.

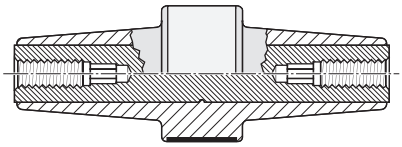


ORDERING INSTRUCTIONS

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.

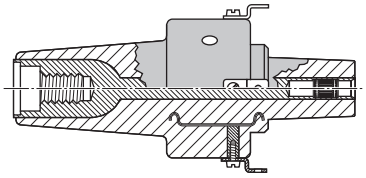


ORDERING INSTRUCTIONS

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 onto its mating part.

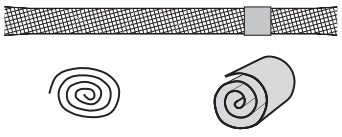


ORDERING INSTRUCTIONS

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.



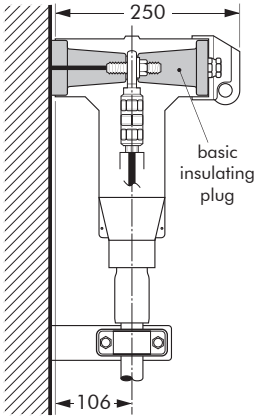
ORDERING INSTRUCTIONS

Order
Kit MT for 12 kV or 24 kV
applications.

POSSIBLE ARRANGEMENTS

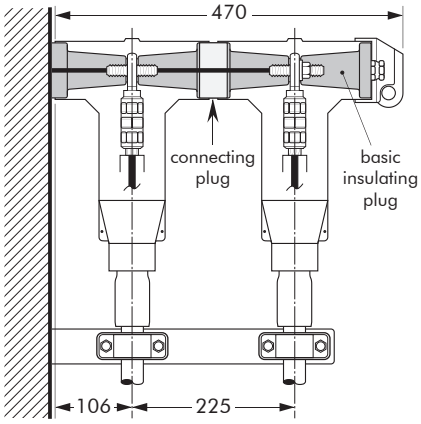
676LRA/G

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



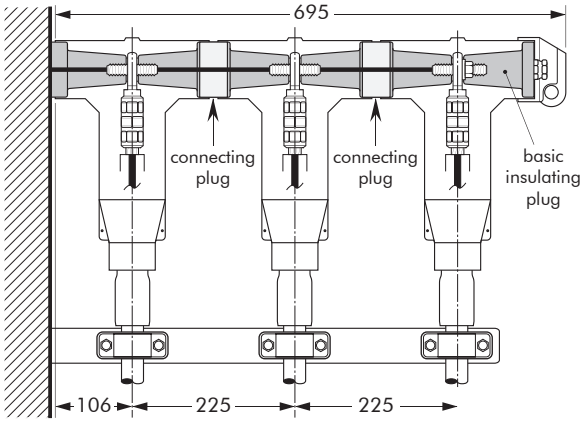
676LRA/G-P2

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



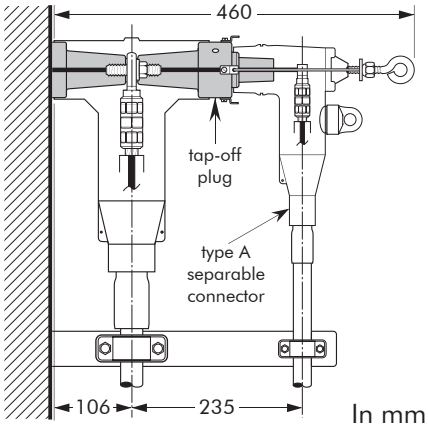
676LRA/G-P3

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.



In mm.

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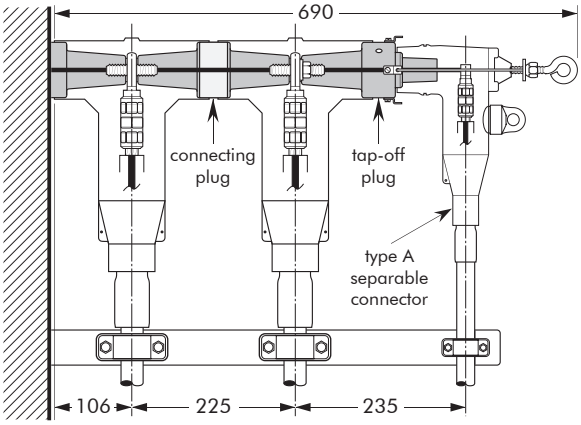
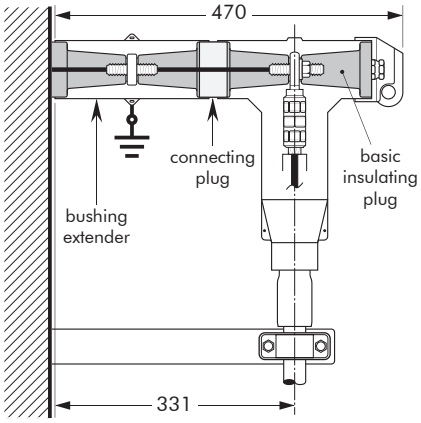
676LRA/G-P5

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



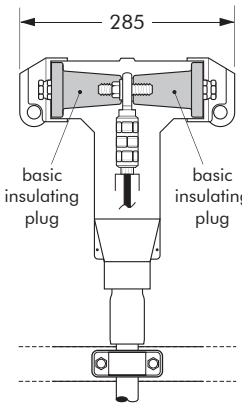
676LRA/G-P6

Connector standing away from equipment.
Order 676LRA/G-P6 for 12 kV or K676LRA/G-P6 for 24 kV applications.



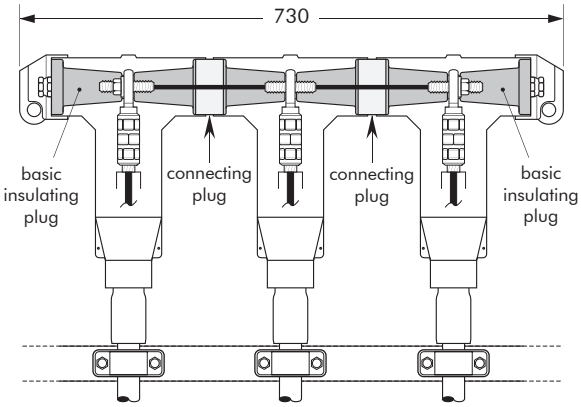
676LRA/G-L1

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



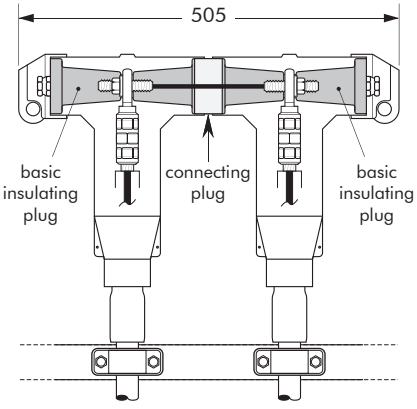
676LRA/G-L3

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



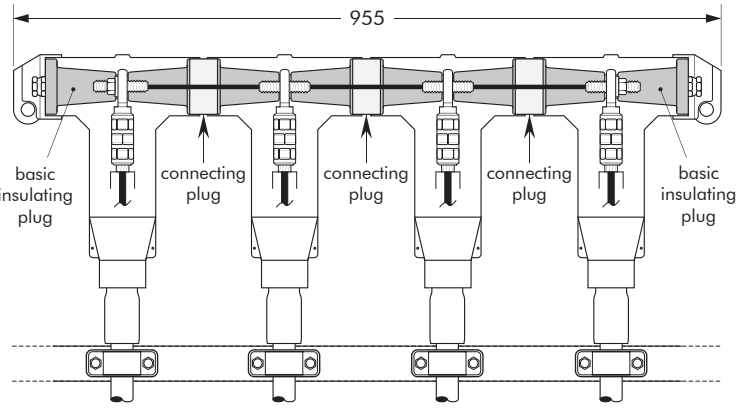
676LRA/G-L2

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



676LRA/G-L4

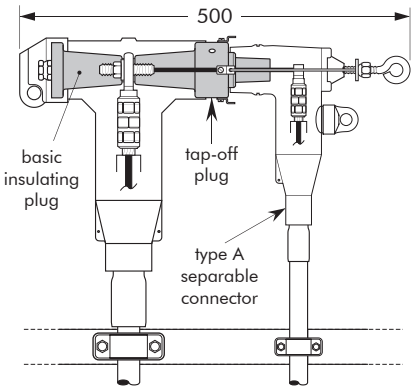
4-way connection.
Order 676LRA/G-L4 for 12 kV or K676LRA/G-L4 for 24 kV applications.



In mm.

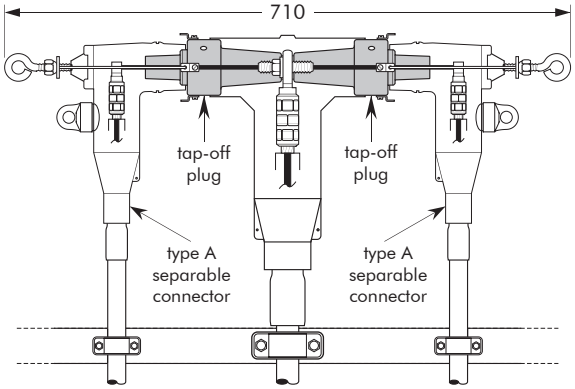
676LRA/G-L5

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



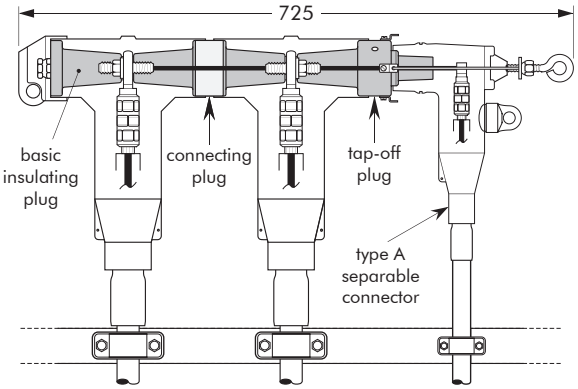
676LRA/G-L6

3-way connection with two tap-offs.
Order 676LRA/G-L6 for 12 kV or K676LRA/G-L6 for 24 kV applications.



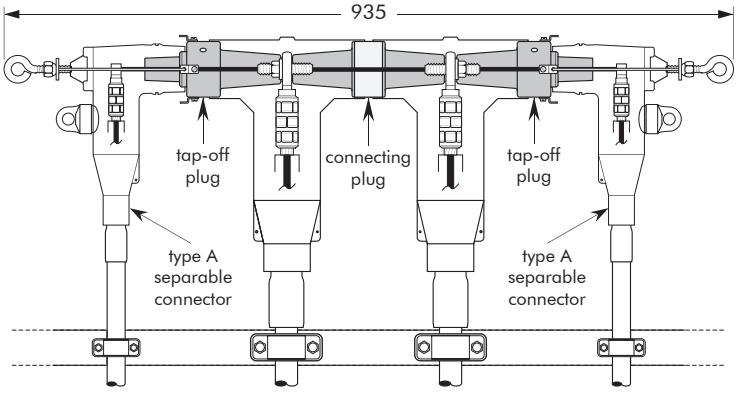
676LRA/G-L7

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

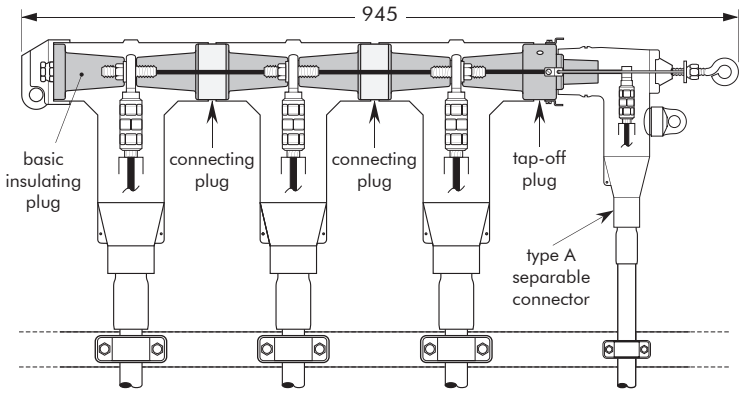
4-way connection with two tap-offs.
Order 676LRA/G-L8 for 12 kV or K676LRA/G-L8 for 24 kV applications.



In mm.

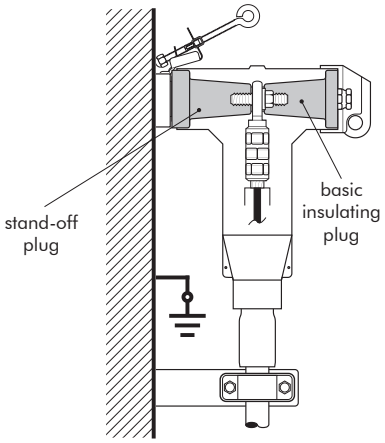
676LRA/G-L9

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



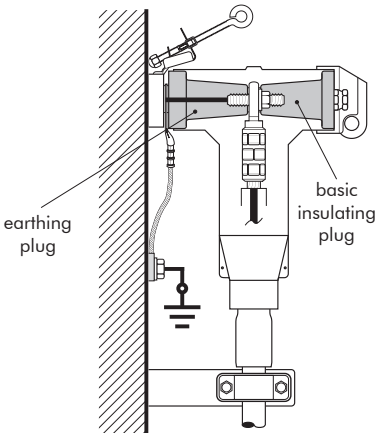
CONNECTOR ON STAND-OFF PLUG

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



CONNECTOR ON EARTHING PLUG

Order 606GP for 12 kV and
24 kV applications.



In mm.

NOTES

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