



 **EUROMOLD**

# **INTERFACE D**

**Medium Voltage  
Symmetrical Separable  
Connectors**

Catalogue 2025

# NEXANS POWER ACCESSORIES

## An essential cog in energy systems

The future will be electric. The present already is. As electrification gathers spaces, network operators are undertaking large-scale projects to extend and modernize the grids. These projects require a wide range of power accessories. Nexans is a leading manufacturer and distributor in this field since more than 60 years, supplying a full range of power accessories to our global customers in about 100 countries.

We connect all types of cables, for high- and medium-voltage installations, and all types of conductors with any cross-section. We provide underground cable junctions, and connect cables to various types of equipment, including transformers and switchgear. Our products are used on both onshore and offshore networks, on wind and solar farms, or in data centers for example.

Our range of products includes EUROMOLD connectors, our cutting-edge EPDM technology, known for its exceptional performance and reliability. We also provide cold and heat shrinkable joints and terminations, developed to be always easier to install and reliable. We pre-assemble ready to install jumpers. And our extensive range of GPH ferrules and lugs, designed to meet the highest standards of quality and durability, are embodied in all our accessories kits or delivered separately.

Nexans is committed to delivering innovative solutions and top-notch products in the field of electrical connections and accessories.

**Together, we have the power to electrify the future!**

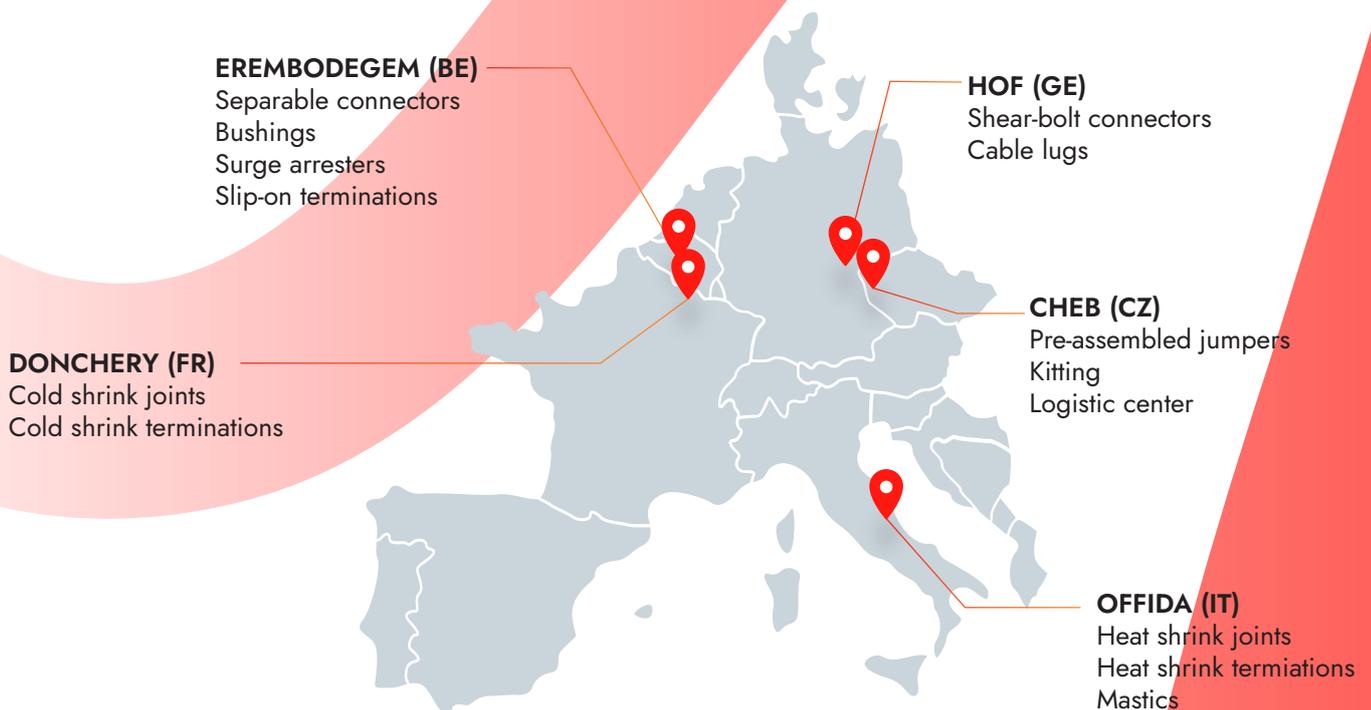
## Laboratory accreditation

Since June 2000, Nexans 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.

## ISO 9001 Certificate

Since 1992, Nexans commitment to quality is demonstrated by its ISO 9001 certification.

## At Nexans, we are proud of our manufacturing and kitting sites



# Medium voltage separable connectors



- Produced in **Europe**
- 100% routine tested
- Only high-quality material is used
- **Made 100% of EPDM rubber**
- All connectors are tested conform to the CENELEC **HD629.1** standard. Test reports available upon demand
- Degree of protection **IP67**: dust tight & immersion in water

- A complete range (12 kV - 72 kV)
- For cross sections from **95 mm<sup>2</sup> to 1200 mm<sup>2</sup>**
- Temperature range from **-60°C to +130°C**
- A range of associated coupling connectors and surge arresters all with compact design
- Offers many test options: capacitive test point, cable tests ...



# COMPACT SEPARABLE CONNECTORS AND BUSHINGS

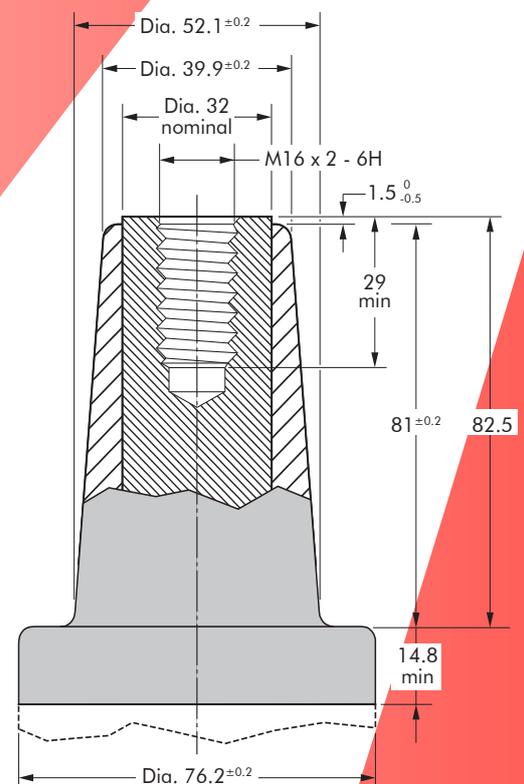
## INTERFACE D

### TABLE OF CONTENTS

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

### INTERFACE D1 & D2

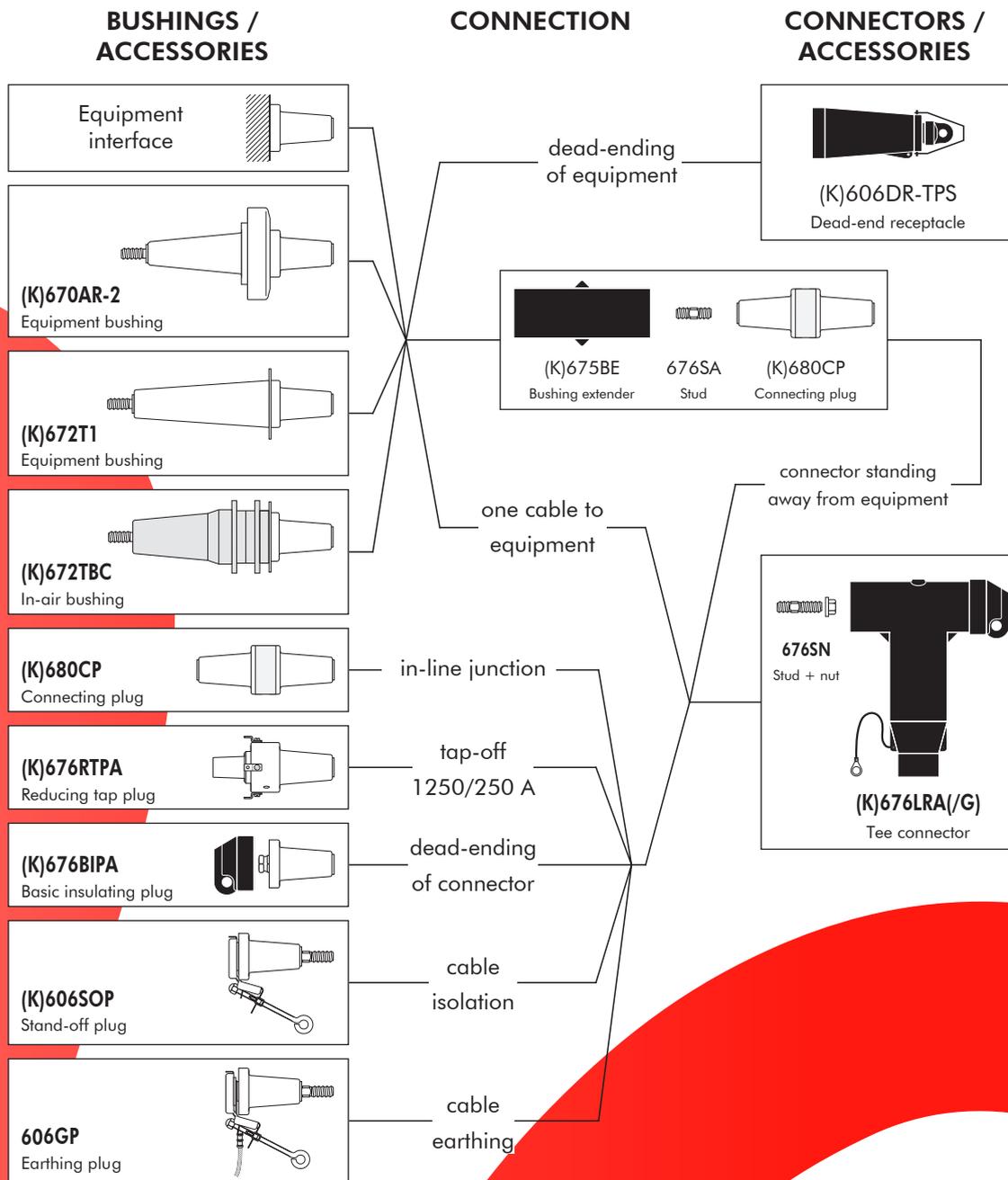
Dimensions according to European CENELEC EN 50180 and 50181 (in mm).



In mm.

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.

# CONNECTING POSSIBILITIES



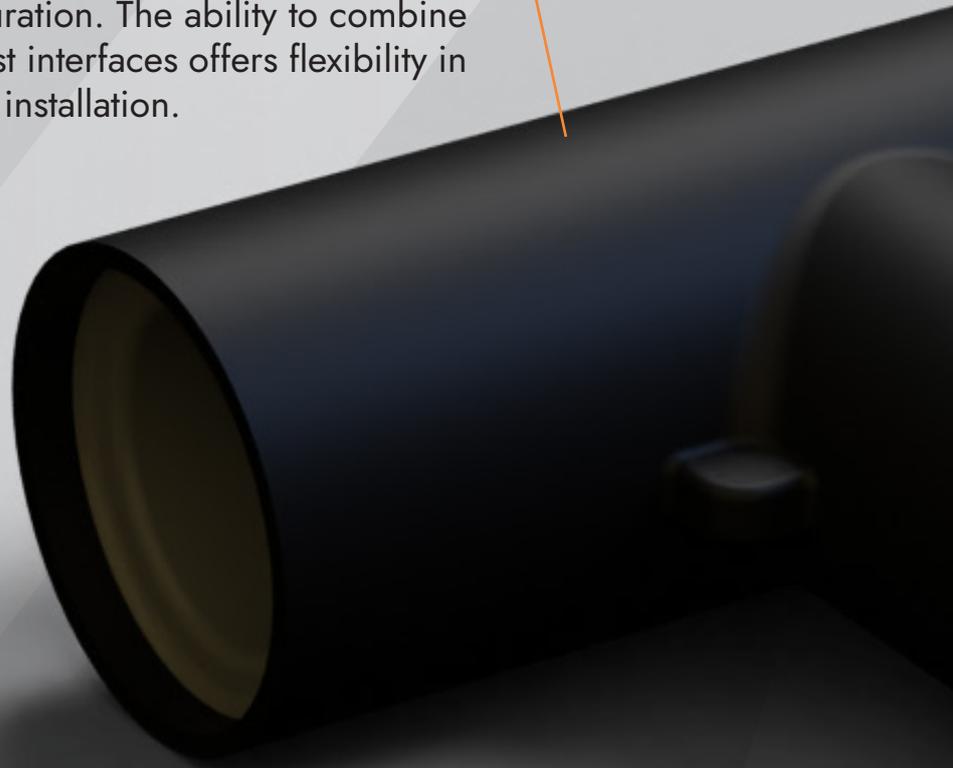
# Made in Europe since 50 years

EUROMOLD separable connectors are made in Europe using only high-quality material such as EPDM rubber. Each product is tested according to CENELEC standards to ensure long-lasting quality.

## Compact & flexible design



The compact design of separable connectors uses less raw material and limits sub packaging. It also facilitates installation in reduced space equipment configuration. The ability to combine connectors for most interfaces offers flexibility in the design of your installation.



## Reliable



EUROMOLD connectors have a proven track record of high reliability and performance in medium & low high voltage applications. Each separable connector is made with high quality components in Europe and individually tested before leaving the plant, ensuring a reliable connection.

## Easy to install & safe

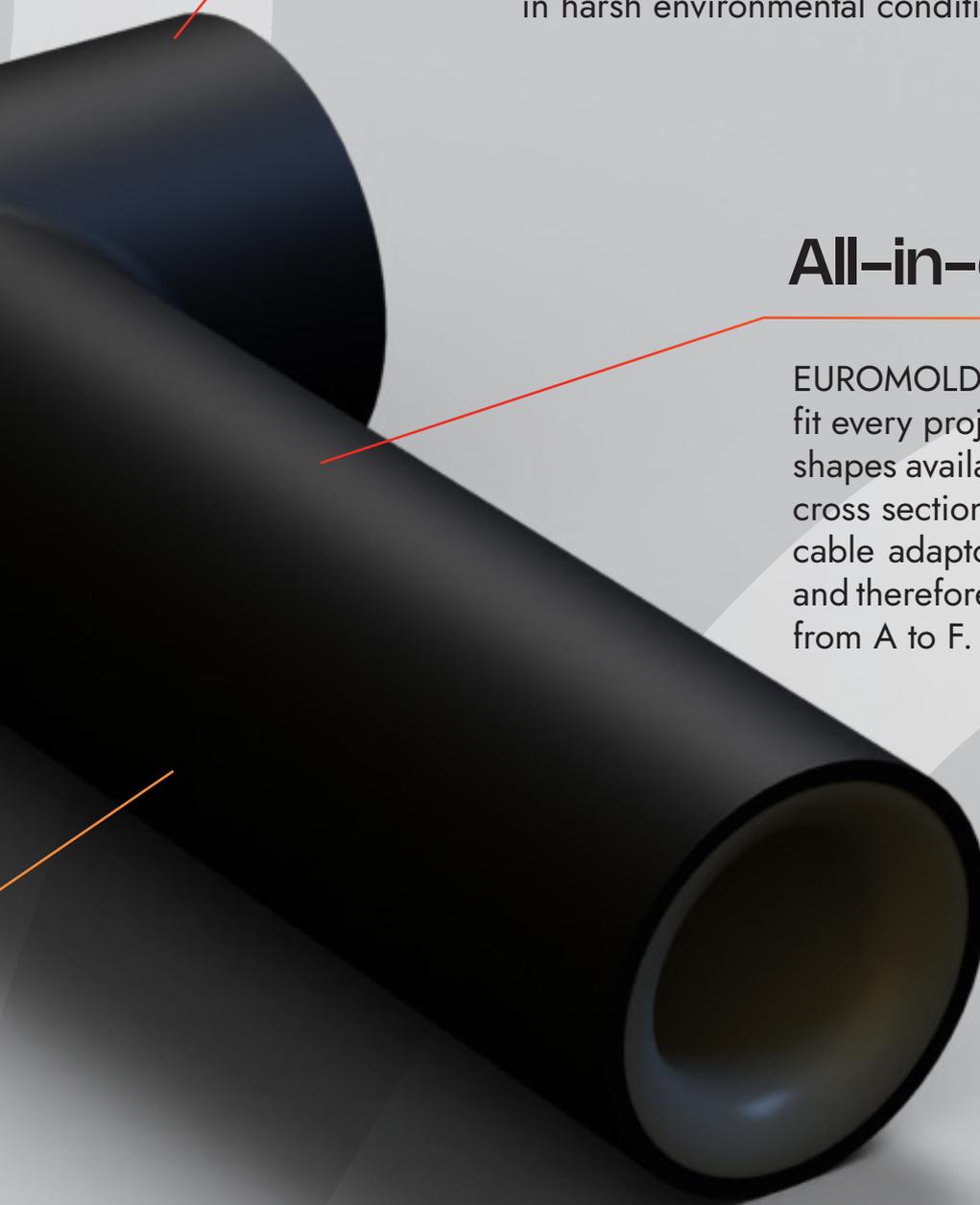


Make your job easier with Nexans separable connectors. They can easily be installed & removed, when de-energized without specific tools, and safely, thanks to high quality EPDM rubber inner and outer jackets, ensuring a long-lasting protection even in harsh environmental conditions.

## All-in-one solution



EUROMOLD's separable connectors fit every projects with their different shapes available for a wide range of cross sections taking GPH lugs and cable adaptors, limiting complexity and therefore stock, for all interfaces from A to F.



# 676LRA

## 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.

## DESIGN

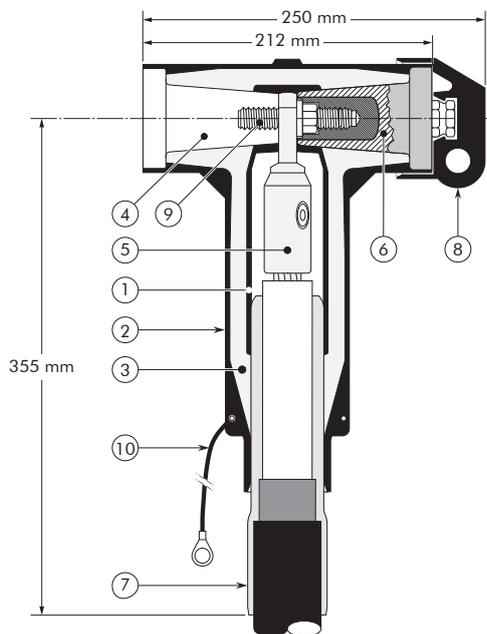
Separable connector comprising:

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.

## 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.



## INTERFACE D TEE 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**

**EUROMOLD**

## SPECIFICATIONS AND STANDARDS

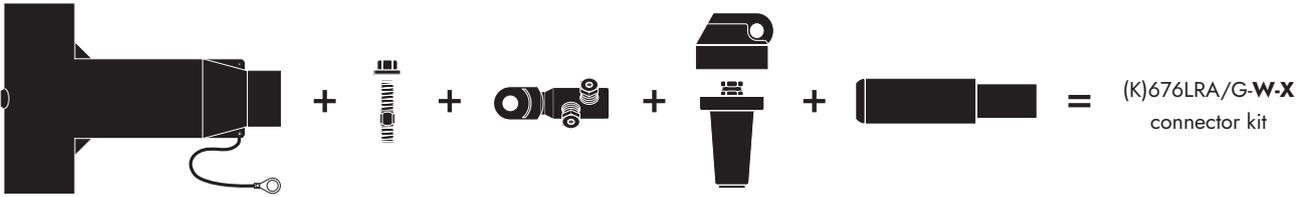
The 676LRA separable connector meets the requirements of CENELEC HD 629.1.

Separable connector type	Voltage $U_m$ (kV)	Current $I_r$ (A)	Conductor sizes (mm <sup>2</sup> )	
			min.	max.
676LRA/G	12	1250	50	630
K676LRA/G	24	1250	35	630

## KIT CONTENTS

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

The kit also comprises silicone grease, wipers, field control mastic and installation instructions.



Connector housing  
(K)650BLR/G

Threaded  
stud + nut  
676SN

Conductor  
contact  
TMBC-X

Basic insulating  
plug (K)676BIPA  
+ rubber cap

Cable reducer  
611CA-W

## ORDERING INSTRUCTIONS

Select the part number which gives the best centring to the cable core insulation diameter and substitute **X** using table X, according to your conductor size and type.

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

### EXAMPLE:

The copper wire screened cable is 24 kV, 630 mm<sup>2</sup> stranded aluminium with a diameter over core insulation of 44.0 mm.

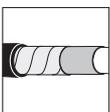
Order a K676LRA/G-37-400.630UN5 tee connector kit.

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

TABLE X

Conductor sizes (mm <sup>2</sup> )	Aluminium and copper conductor	
	Bolted	
35	16.95UN5	95.300UN5
50		
70		
95	400.630UN5	
120		
150		
185	400.630UN5	
240		
300		
400		
500	400.630UN5	
630		



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



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



For outdoor  
applications.  
Order: +MWS.



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



Components can be  
ordered individually.

# 670AR-2

## INTERFACE D EQUIPMENT BUSHING

### 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.



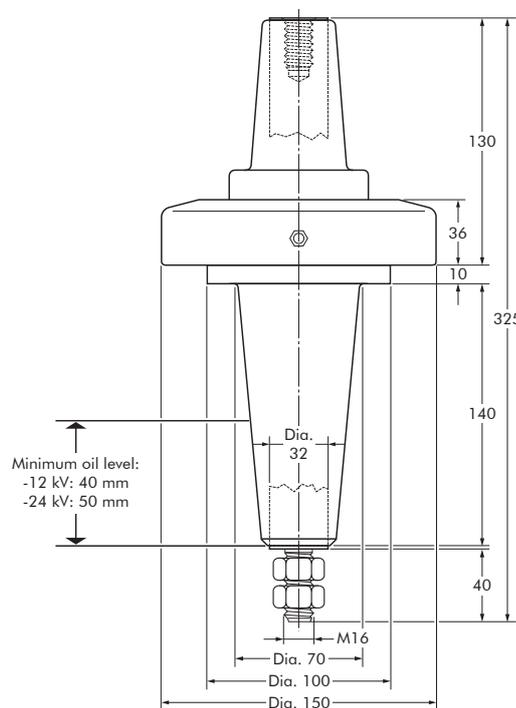
### SPECIFICATIONS AND STANDARDS

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.



**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**

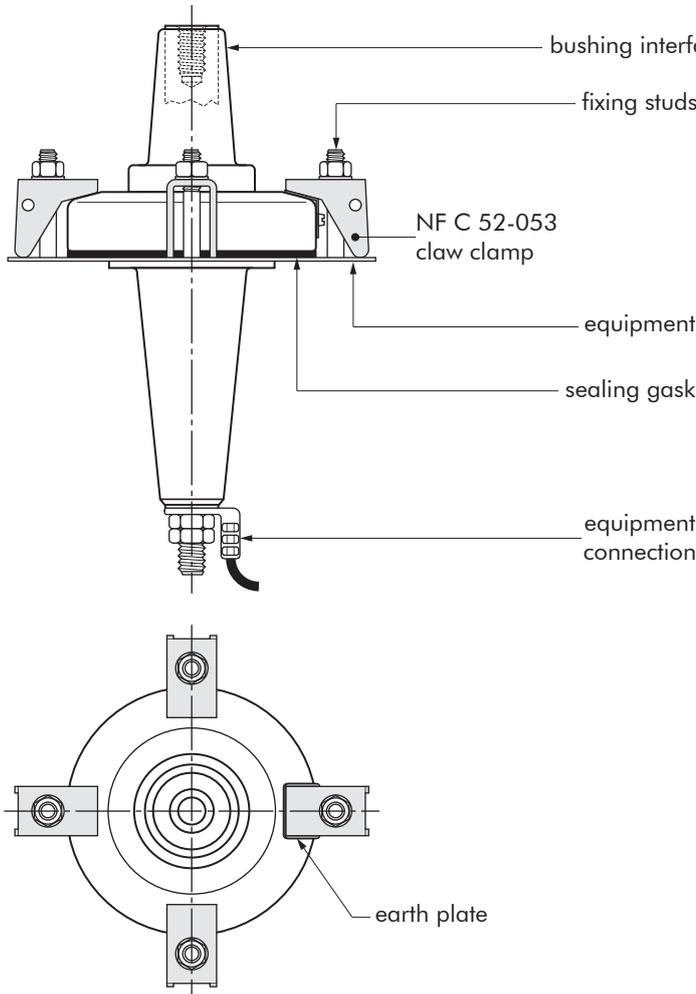
**EUROMOLD**

In mm.

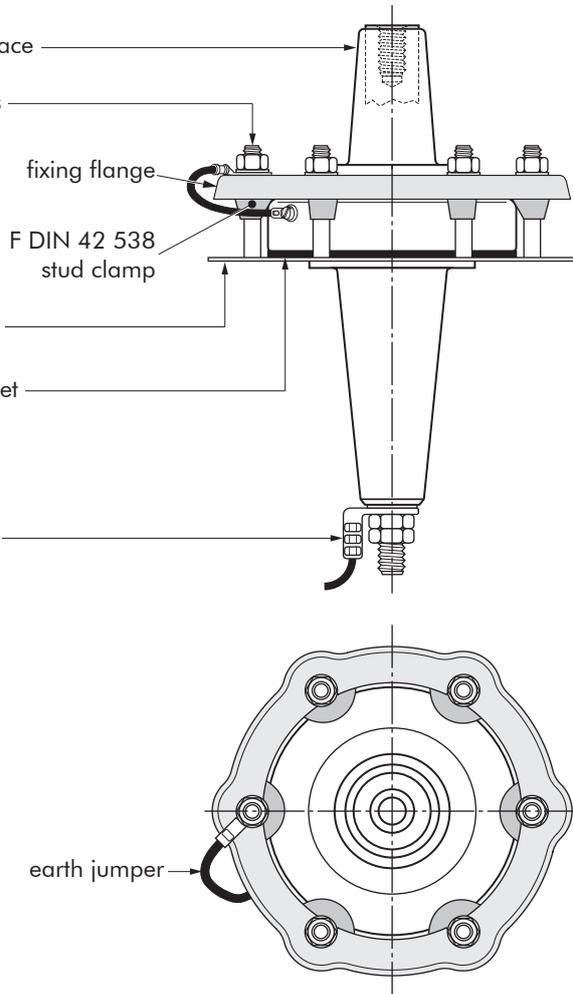
Equipment bushing type	Voltage $U_m$ (kV)	Current $I_r$ (A)
670AR-2	12	1250
K670AR-2	24	1250

# FIXINGS FOR EQUIPMENT BUSHINGS

## 670AR-2/GS BUSHING



## 670AR-2/J 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.

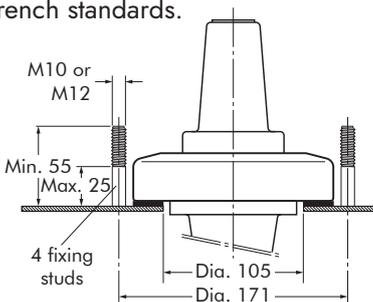
### BUSHING CLAMPING KIT

To order the bushing clamping kit with DIN style fixing flange, simply specify: KBC - RING CLAMP 3.

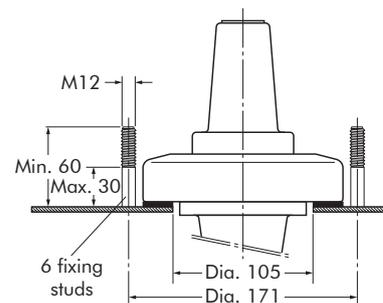
Contents: - 1 x fixing flange  
Ø150 mm  
- 6 x stud clamp  
F DIN 42 538  
- 1 x sealing gasket.

### FIXING DIMENSIONS STANDARDS NFC C 52-053

French standards.



### 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

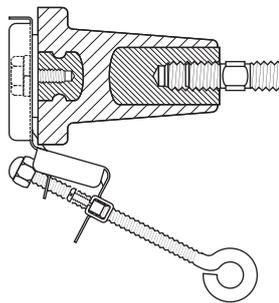
All these products, except the earthing plug, are tested for AC withstand and partial discharge prior to leaving the factory.

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**

## 606SOP STAND-OFF PLUG

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

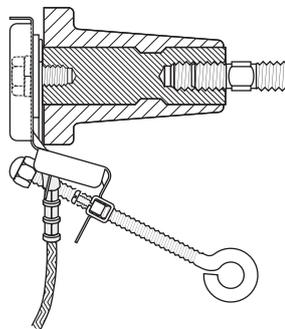


## ORDERING INSTRUCTIONS

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.



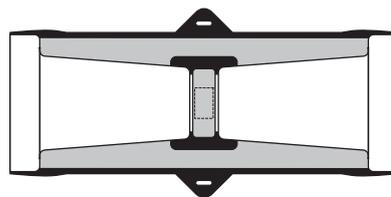
## ORDERING INSTRUCTIONS

Order  
606GP for 12 or 24 kV  
applications.

## 675BE BUSHING EXTENDER

Provides an extension piece to allow cables to stand away from equipment.

Is used in conjunction with the 680CP connecting plug.

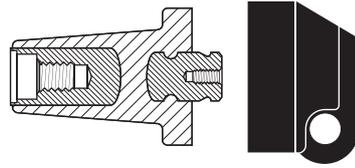


## ORDERING INSTRUCTIONS

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.

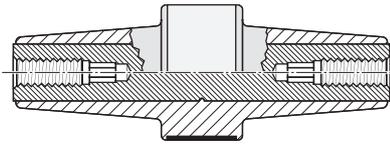


## ORDERING INSTRUCTIONS

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.

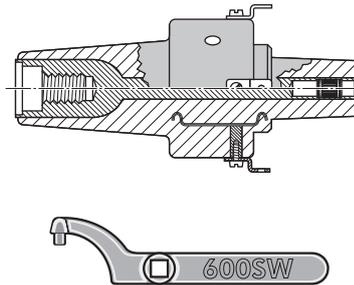


## ORDERING INSTRUCTIONS

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.

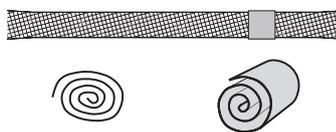


## ORDERING INSTRUCTIONS

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 mm<sup>2</sup> - L = 500 mm), a tinned copper wire for cleaning and water sealing mastic.



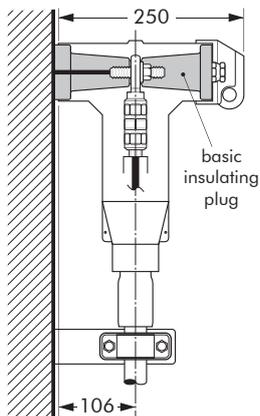
## ORDERING INSTRUCTIONS

Order Kit MT for 12 kV or 24 kV applications.

# POSSIBLE ARRANGEMENTS

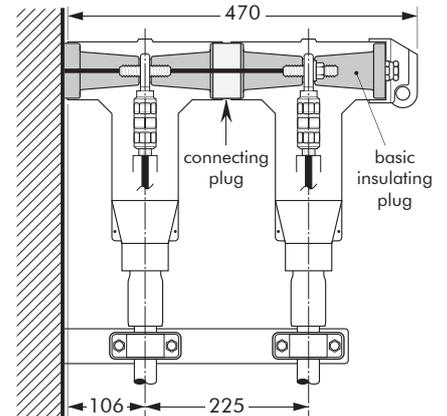
## 676LRA/G

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



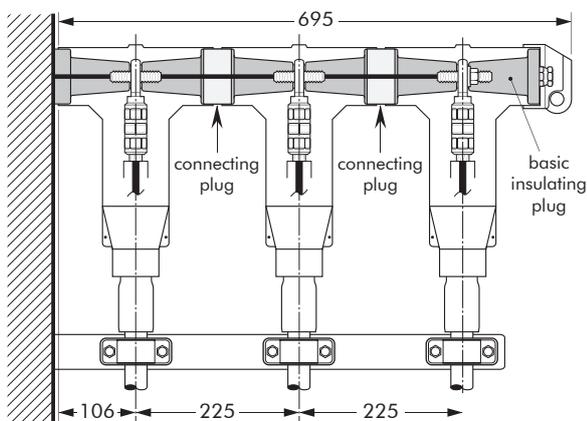
## 676LRA/G-P2

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



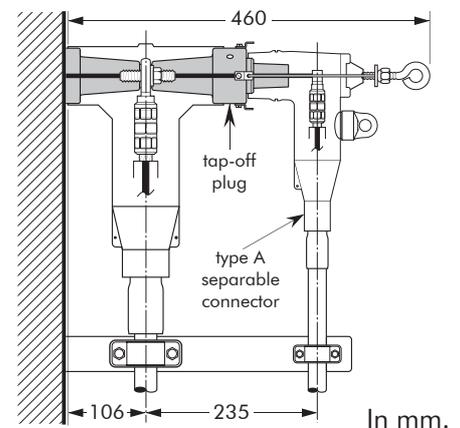
## 676LRA/G-P3

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



## 676LRA/G+200LR/G

Single cable arrangement with  
tap-off.  
Order 676LRA/G+200LR/G for  
12 kV or K676LRA/G+200LR/G  
for 24 kV applications.

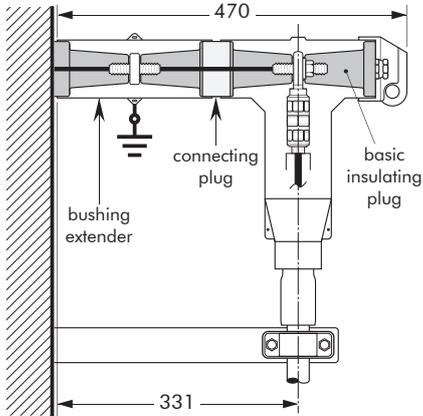


In mm.

## 675BE+676LRA/G

Connector standing away from equipment.

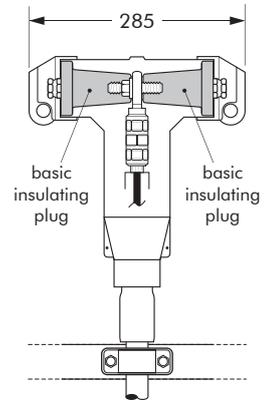
Order 675BE+676LRA/G for 12 kV or K675BE+676LRA/G for 24 kV applications.



## 676LRA/G-L1

Dead-ending.

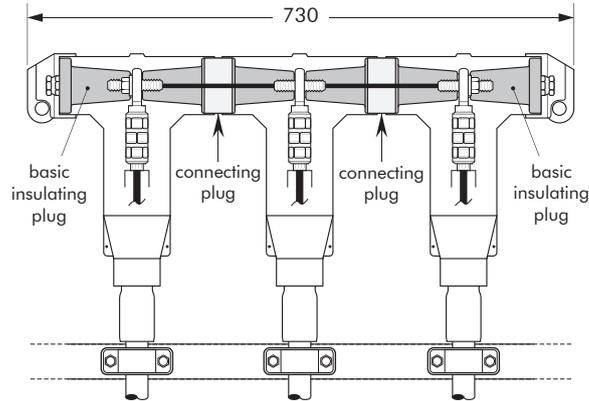
Order 676LRA/G-L1 for 12 kV or K676LRA/G-L1 for 24 kV applications.



## 676LRA/G-L3

3-way connection.

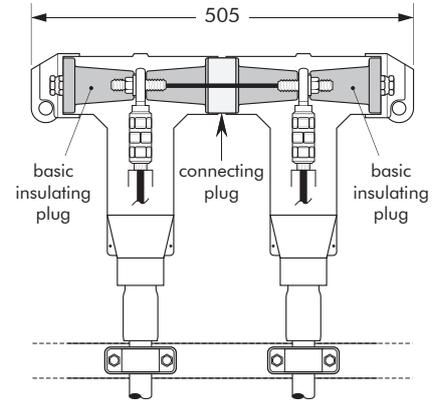
Order 676LRA/G-L3 for 12 kV or K676LRA/G-L3 for 24 kV applications.



## 676LRA/G-L2

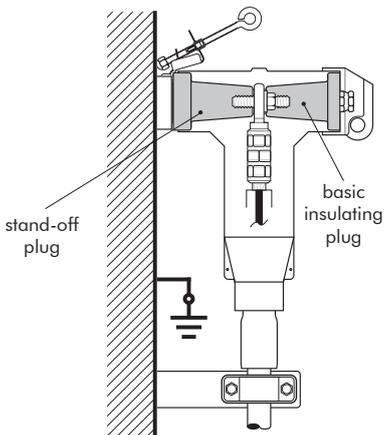
2-way connection.

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



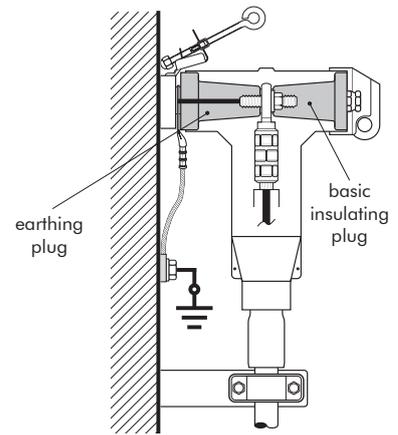
## CONNECTOR ON STAND-OFF PLUG

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.

## About Nexans

For over a century, Nexans has played a crucial role in the electrification of the planet and is committed to electrifying the future. With approximately 28,500 people in 41 countries, the Group is paving the way to a new world of safe, sustainable and decarbonized electricity that is accessible to everyone. In 2023, Nexans generated 6.5 billion euros in standard sales. The Group is a leader in the design and manufacturing of cable systems and services across four main business areas: Power Generation & Transmission, Distribution, Usage and Industry & Solutions. Nexans was the first company in its industry to create a Foundation supporting sustainable initiatives, bringing access to energy to disadvantaged communities worldwide. The Group is recognized on the CDP Climate Change A List as a global leader on climate action and has committed to Net-Zero emissions by 2050 aligned with the Science Based Targets initiative (SBTi).

Nexans. Electrify the future.

Nexans is listed on Euronext Paris, compartment A.

**For more information, please visit [www.nexans.com](http://www.nexans.com)**

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Find out more about Nexans Power Accessories.