

Catalogue 2011



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## **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: pre-moulded EPDM or silicone rubber connectors, terminations and joints 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, 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. 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 A

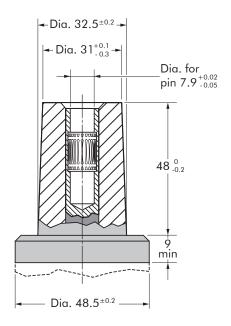
#### Table of contents

**Bail restraints** 

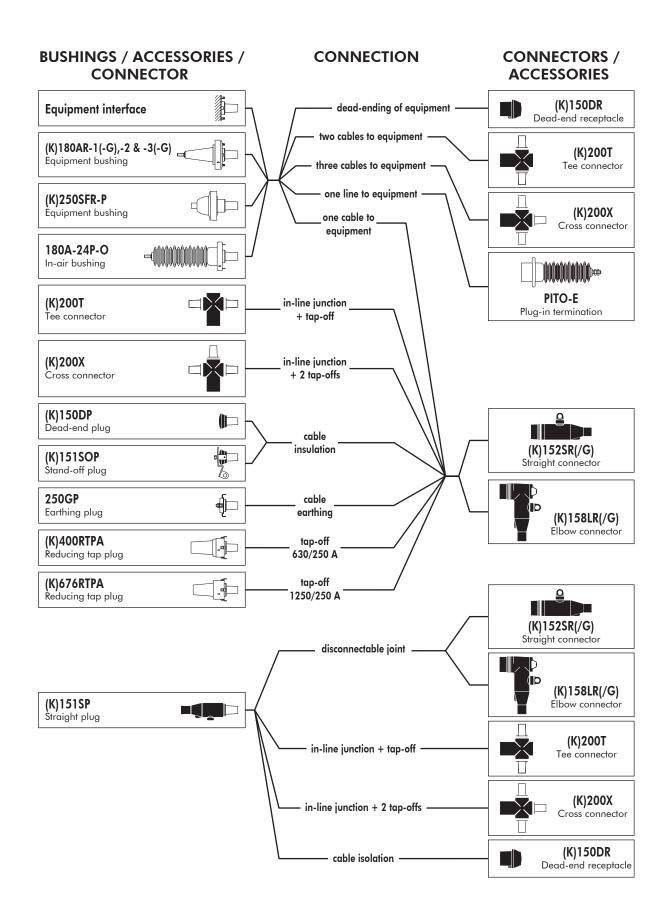
158LR - elbow connector
152SR - straight connector
151SP - straight plug
156SA - surge arrester
180AR-1 /-2 /-3 and 180AR-1-G /-3-G - equipment bushings
250SFR-P - equipment bushing
180A-24P-O - in-air bushing
PITO-E - plug-in termination
Accessories

#### Interface A

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



#### Connecting possibilities







#### 158LR INTERFACE A ELBOW CONNECTOR

#### Up to 24 kV - 250 A

#### Application

Separable elbow connector designed to connect polymeric insulated cable to equipment (transformers, switchgear, motors...).

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

#### Technical characteristics

- The thick conductive EPDM jacket provides a total safe to touch screen which ensures safety for personnel.
- 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

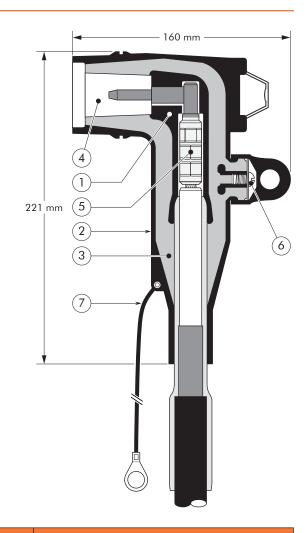
#### **Design**

Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type A 250 A interface as described by CENELEC EN 50180 and 50181.
- 5. Conductor connector.
- 6. Voltage test point.
- Earthing lead (-/G version only).

#### Specifications and standards

The separable connector 158LR meets the requirements of CENELEC HD 629.1.



	Separable connector	Voltage Um	Current Ir	Conductor sizes (mm²)		Current Conductor sizes (mm²)	sizes (mm²)
	type	(kV)	(A)	min	max		
	158LR/G	12	250	16	70		
	158LR	12	250	70	95		
-	K158LR/G	24	250	16	25		
1	K158LR	24	250	25	95		

#### Kit contents

The complete (K)158LR or The kit also comprises lubricant, wipers, installation instructions and crimp chart. (K)158LR/G elbow connector kit comprises the following components: (K)158LR/G-W-X connector kit for smaller sizes Connector housing Cable reducer (K)158BLR/G-W 211CA Conductor Pin contact = (K)158LR-W-X+11TL contact + hex key restraint connector kit for 164LRC-X 154LRF 150BA-B1 larger sizes Cable adaptor or Connector housing

(K) 158BLR-W

#### I 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 the conductor size and type.

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

#### **Example:**

164LRMC-X

The copper wire screened cable is 24 kV, 50 mm<sup>2</sup> stranded aluminium with a diameter over core insulation of 20.4 mm.

Order a K158LR-FG-50(K)M-12-2+11TL elbow connector kit.

## For an option with a bolted conductor contact,

specify the ordering part number below.

#### **Table W**

Ordering	Dia. over core i	Dia. over core insulation (mm)		
part number	min	max		
158LR/G-11- <b>X</b>	12.6	16.1		
158LR/G-13- <b>X</b>	14.6	18.7		
158LR-FB- <b>X</b> +11TL	17.5	20.2		
158LR-FG- <b>X</b> +11TL	18.4	21.2		
158LR-GA- <b>X</b> +11TL	19.7	22.5		
158LR-GAB- <b>X</b> +11TL	21.0	23.8		
158LR-GH- <b>X</b> +11TL	23.2	26.4		

11TL

#### Table X

Conductor	Aluminium		Copper
sizes (mm²)	DIN hexagonal	Deep indent	DIN hexagonal
16	-	-	16(K)M-11-2
25	25(K)M-12-2	25KM-12-1	25(K)M-11-2
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

<sup>\*</sup> The 158LR-FB is not compatible with these conductor contacts.

Ordering part number	Dia. over core insulation (mm)	Conductor sizes (mm²)
158LR/G-13-25.95-14-5	14.6 - 22.7	25 - 95
158LR-GAS-50.95-14-5+11TL	19.7 - 25.4	50 - 95



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 with other cable types.
Please contact our representative.



For adapted bail restraints: see 'Bail restraints and typical applications'.



For outdoor applications.
Order: +MWS.



Components can be ordered individually.





#### 152SR INTERFACE A STRAIGHT CONNECTOR

#### Up to 24 kV - 250 A

#### **Application**

Separable straight connector designed to connect polymeric insulated cable to equipment (transformers, switchgear, motors...).

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

#### Technical characteristics

- The thick conductive EPDM jacket provides a total safe to touch screen which ensures safety for personnel.
- 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

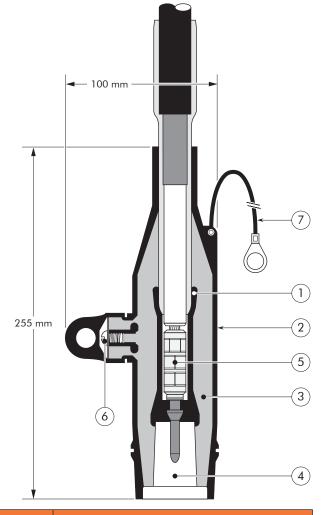
#### Design

Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type A 250 A interface as described by CENELEC EN 50180 and 50181.
- 5. Conductor connector.
- 6. Voltage test point.
- Earthing lead (-/G version only).

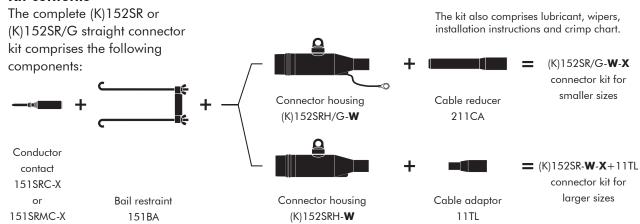
#### Specifications and standards

The separable connector 152SR meets the requirements of CENELEC HD 629.1.



	Separable connector	Voltage Um	Current Ir	Conductor sizes (mm²)	
	type	(kV)	(A)	min	max
	152SR/G	12	250	16	70
	152SR	12	250	70	95
	K152SR/G	24	250	16	25
î	K152SR	24	250	25	95

#### Kit contents



#### I 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 the conductor size and type.

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

#### **Example:**

The copper wire screened cable is 24 kV, 50 mm<sup>2</sup> stranded aluminium with a diameter over core insulation of 20.4 mm.

Order a K152SR-FG-50(K)M-12-2+11TL straight connector kit.

### For an option with a bolted conductor contact,

specify the ordering part number below.

#### **Table W**

Ordering	Dia. over core insulation (mm)		
part number	min	max	
152SR/G-11- <b>X</b>	12.6	16.1	
152SR/G-13- <b>X</b>	14.6	18.7	
152SR-FB- <b>X</b> +11TL	17.5	20.2	
152SR-FG- <b>X</b> +11TL	18.4	21.2	
152SR-GA- <b>X</b> +11TL	19.7	22.5	
152SR-GAB- <b>X</b> +11TL	21.0	23.8	
152SR-GH- <b>X</b> +11TL	23.2	26.4	

#### **Table X**

Conductor	Aluminium		Copper
sizes (mm²)	DIN hexagonal	Deep indent	DIN hexagonal
16	-	-	16(K)M-11-2
25	25(K)M-12-2	25KM-12-1	25(K)M-11-2
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

<sup>\*</sup> The 152SR-FB is not compatible with these conductor contacts.

Ordering part number	Dia. over core insulation (mm)	Conductor sizes (mm²)
152SR/G-13-25.95-14-5	14.6 - 22.7	35 - 70
152SR-GAS-50.95-14-5+11TL	19.7 - 25.4	50 - 95



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 with other cable types.
Please contact our representative.



For adapted bail restraints: see 'Bail restraints and typical applications'.



For outdoor applications.
Order: +MWS.



Components can be ordered individually.





#### 151SP INTERFACE A STRAIGHT PLUG

#### Application Technic

Separable straight plug designed to connect polymeric insulated cable to cable. Mates with the elbow, straight and branch joint connectors.

#### Technical characteristics

- The thick conductive EPDM jacket provides a total safe to touch screen which ensures safety for personnel.
- Each straight plug is tested for AC withstand and partial discharge prior to leaving the factory.

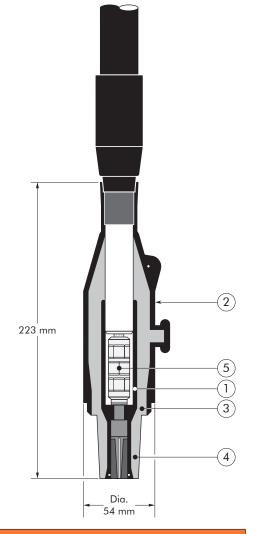
Up to 24 kV - 200 A

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

Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- 3. Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type A interface as described by CENELEC EN 50180 and 50181.
- 5. Conductor connector.

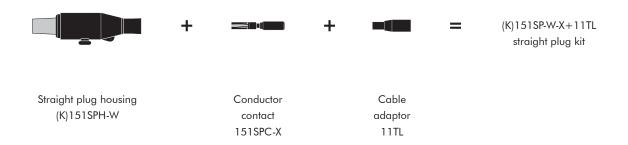


	Separable plug	Voltage Um	Current Ir	Conductor sizes (mm²)	
	type	(kV)	(A)	min	max
ì	151SP K151SP	12 24	200 200	16 16	95 95

#### Kit contents

The complete (K)151SP straight plug kit comprises the following components:

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



#### 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 the conductor size and type.

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

#### Table W

Ordering	Dia. over core	Dia. over core insulation (mm)		
part number	min	max		
151SP-A- <b>X</b> +11TL-FA/FAB	14.6	18.7		
151SP-B- <b>X</b> +11TL-FB/FG	17.2	21.2		
151SP-B- <b>X</b> +11TL-GA/GAB	19.7	23.0		
151SP-C- <b>X</b> +11TL-GB/GH	22.2	26.4		

#### Table X

Example:
The copper wire screened cable
is 12 kV, 50 mm <sup>2</sup> stranded
aluminium with a diameter over
core insulation of 16.9 mm.
Order a 151SP-A-50(K)M-12-
2+11TL-FA/FAB straight plug
kit.

6 1 1	A1	6	
Conductor sizes	Alum	Copper	
(mm²)	DIN hexagonal	Deep indent	DIN hexagonal
16	-	-	16(K)M-11-2
25	25(K)M-12-2	25KM-12-1	25(K)M-11-2
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



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 with other cable types.
Please contact our representative.



For adapted bail restraints: see 'Bail restraints and typical applications'.



For outdoor applications.
Order: +MWS.



Components can be ordered individually.





#### 156SA INTERFACE A SURGE ARRESTER

#### Application

Surge arrester designed to protect 12 and 24 kV class components, including transformers, equipment, cable and accessories from high voltage surges resulting from lightning or switching.

#### Technical characteristics

- This surge arrester is a metal oxide varistor surge arrester in an elbow configuration.
- Each arrester is tested for AC withstand and partial discharge prior to leaving the factory.

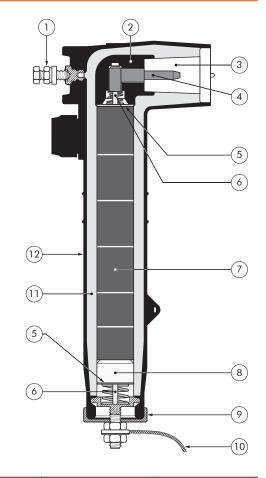
Up to 24 kV

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

#### Design

Surge arrester comprising:

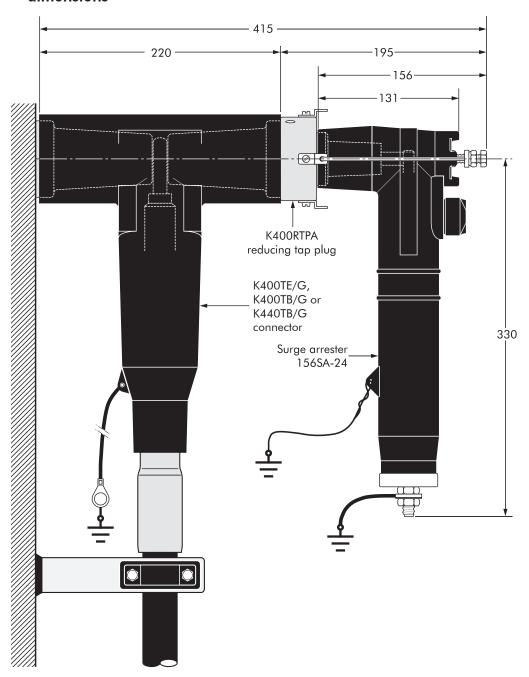
- 1. Bail restraint.
- 2. Conductive EPDM insert.
- 3. Type A 250 A interface as described by CENELEC EN 50180 and 50181.
- 4. Pin contact.
- 5. Contact disc.
- 6. Copper shunt.
- 7. Metal oxide valve elements.
- 8. Aluminium spacer.
- 9. Steel cap.
- 10. Earth connection.
- 11. Insulating EPDM layer moulded between the insert and the jacket.
- 12. Conductive EPDM jacket.



Surge arrester type	ester current Ur		Max continuous operating voltage Uc (kV)  Steep current residual voltage @ 5 kA [1/20 \mus] (kV)		Lightning current residual voltage @ 5 kA [8/20 µs] (kV)	High current impulse withstand (kA)	
156SA-12	5	15	12.5	62.5	54.5	40	
156SA-15	5	19	15.5	77.0	69.0	40	
156SA-18	5	22	18.0	87.0	79.0	40	
156SA-21	5	26	21.0	101.5	93.5	40	
156SA-24	5	30	24.5	116.5	108.5	40	
	I	1		I		1	

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## l Typical application and dimensions



In mm.

#### Ordering instructions

To order the surge arrester, specify the surge arrester type, as described on previous page.

#### **Example:**

For a maximum continuous operating voltage (r.m.s.) of 21 kV.

Order a 156SA-21 surge arrester.





#### 180AR-1 /180AR-2 /180AR-3

INTERFACE A EQUIPMENT BUSHINGS

#### 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 plug-in type equipment bushings 180AR-... meet the requirements of CENELEC EN 50180 and IEC 60137.

Up to 24 kV - 250 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

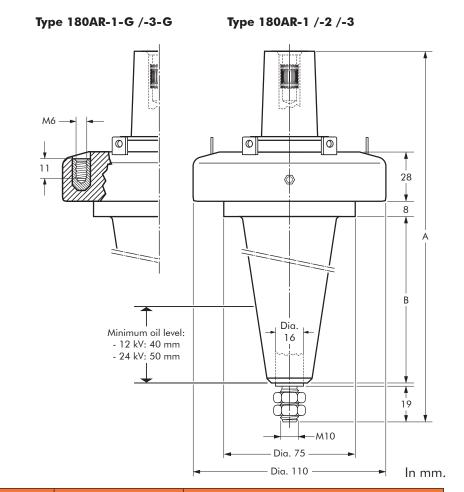
#### Design

- The equipment bushings are moulded epoxy insulated parts in accordance with CENELEC EN 50180.
  - The 180AR-2 bushing has a length B outside this standard.
- The standard bushings, (K)180AR-1 /-2 /-3, are equipped with 6 tabs for the bail restraint.
- The (K)180AR-1-G and (K)180AR-3-G are equipped with 4 tabs and 2 threaded inserts M6 (-G version).

#### Ordering instructions

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

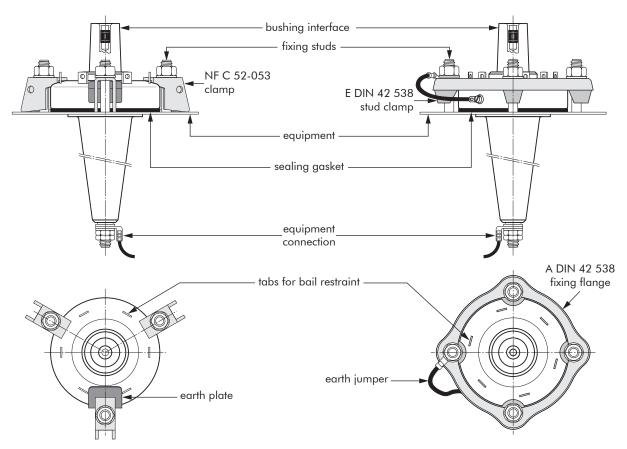
E.g. K180AR-1/J.



Equipment bushing	Voltage Ur	Current	Dimensions (mm)	
type	(kV)	Ir (A)	Α	В
180AR-1	12	250	222	106
K180AR-1	24	250	222	106
180AR-2	12	250	284	168
K180AR-2	24	250	284	168
180AR-3	12	250	171	55
K180AR-3	24	250	171	55

# FIXINGS FOR EQUIPMENT BUSHINGS

180AR-1/GS 180AR-1-G/GS 180AR-2/GS 180AR-3/GS and 180AR-3-G/GS Bushings 180AR-1/J 180AR-1-G/J 180AR-2/J 180AR-3/J and 180AR-3-G/J Bushings



#### | Bushing clamping kit

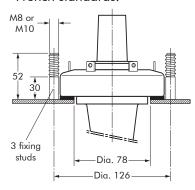
To order the bushing clamping kit, according to NFC 52-053 standards, simply specify KBCNF1-200.

Contents: - 3 x claw clamp NF

- 1 x sealing gasket.

## Fixing dimensions standards NF C 52-053

French standards.



#### Bushing clamping kit

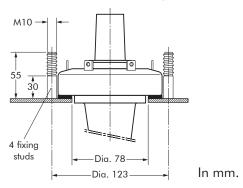
To order the bushing clamping kit, according to DIN 42 538 standards, simply specify: KBCD-200.

Contents: - 1 x fixing flange A

- 4 x stud clamp E
- 1 x sealing gasket.

### Fixing dimensions standards DIN 42 538

German standards.







#### 250SFR-P INTERFACE A EQUIPMENT BUSHING

#### Application

For use in equipment insulated with SF<sub>6</sub> gas.

#### Technical characteristics

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

Up to 24 kV - 250 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 with a connector interface in accordance with CENELEC EN 50180.

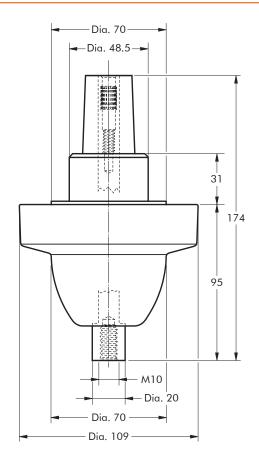
The 250SFR-P bushing has a shank outside this standard, adapted to use in  $SF_6$  gas.

### Specifications and standards

The plug-in type equipment bushings 250SFR-P meet the requirements of CENELEC EN 50180 and IEC 60137.

#### Ordering instructions

To order the equipment bushing, simply specify the type.

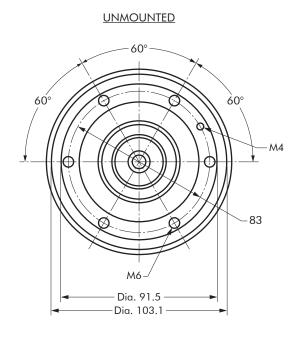


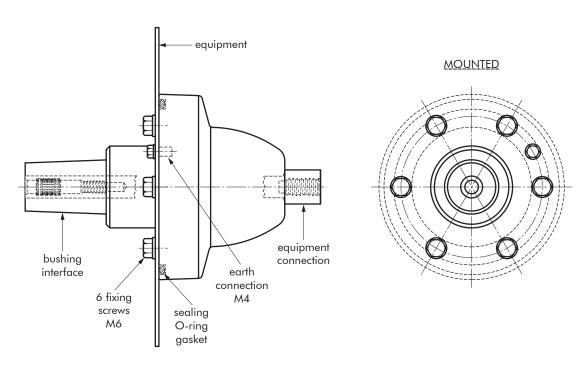
In mm.

	Equipment bushing type	Voltage Ur (kV)	Current Ir (A)
= [	250SFR-P	12	250
07/70	K250SFR-P	24	250

# FIXINGS FOR EQUIPMENT BUSHINGS

## 250SFR-P Bushing for gas insulated switchgear





In mm.





#### 180A-24P-O INTERFACE A IN-AIR BUSHING

#### Application

For use in equipment insulated with air, typically for dry type transformers, motors, switchgear, capacitors...

#### Technical characteristics

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

Up to 24 kV - 250 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

### Specifications and standards

The plug-in type equipment bushings 180A-24P-O are moulded epoxy insulated parts and meet the requirements of CENELEC EN 50181, IEC 60071 and IEC 60137.

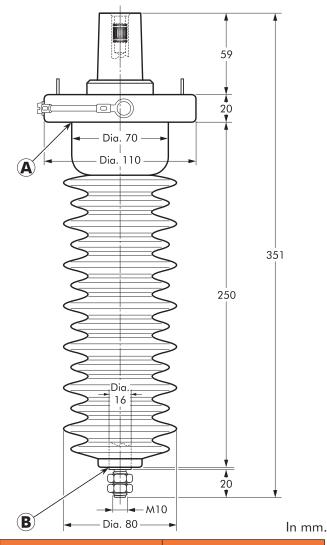
#### Ordering instructions

To order the equipment bushing, specify the type. The bushings are supplied with an earth jumper.

To include the ring clamp, add:

- /B, if per British standards
- /D, if per German standards
- /F, if per French standards.

E.g. 180A-24P-O/F.

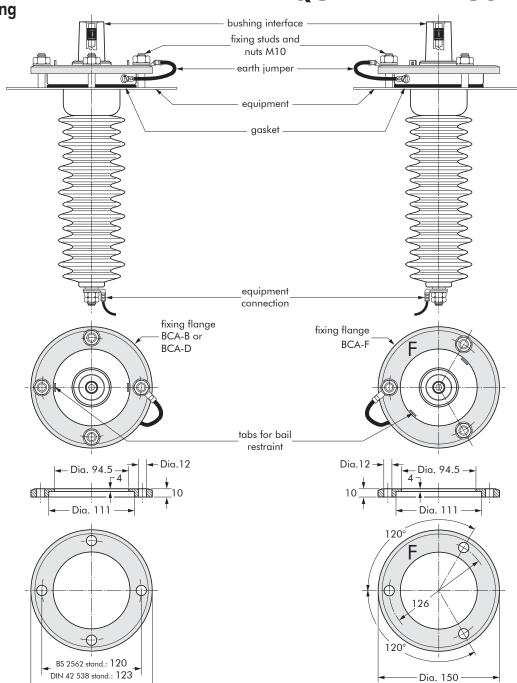


	Equipment bushing type	Voltage Ur (kV)	Current Ir (A)	Creepage distance A-B (mm)
	180A-24P-O	12	250	630
î	180A-24P-O	24	250	630

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#### l 180A-24P-O In-air bushing

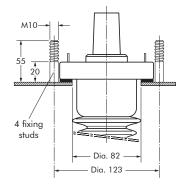
# FIXINGS FOR EQUIPMENT BUSHINGS



Type BCA-B: BS 2562 British standards
Type BCA-D: DIN 42 538 German standards

## Fixing dimensions standards DIN 42 538

German standards.

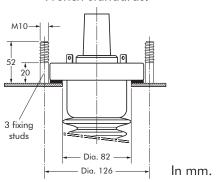




Fixing dimensions standards NF C 52-053

French standards.

Type BCA-F: NFC 52-053 French standards





#### PITO-E PLUG-IN TERMINATION

#### Application

- Separable termination designed to connect overhead lines or bus bars to equipment.
- Is suitable for indoor and outdoor use for medium polluted atmosphere.

#### Technical characteristics

Each plug-in termination is tested for AC withstand prior to leaving the factory. Up to 24 kV - 250 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**

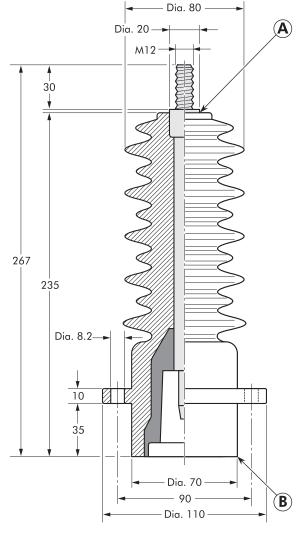
The plug-in termination is a moulded epoxy insulated part. It meets the type A - 250 A interface as described in CENELEC EN 50180 and 50181.

### Specifications and standards

The separable termination PITO-E meets the requirements of IEC 60137.

#### Ordering instructions

To order the plug-in termination for 12 or 24 kV, specify PITO-E. The kit includes the bail restraint and 2 brass nuts.



In mm.

	Plug-in	Voltage	Current	Creepage distance
	termination	Ur	lr	A-B
	type	(kV)	(A)	(mm)
=	PITO-E	12	250	510
72/20	PITO-E	24	250	510



## ACCESSORIES INTERFACE A

#### Application

For use with connectors and bushings with an interface A 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

#### I 150DR Dead-end receptacle

Fits over a bushing with a type A interface to provide 'deadend' facility.
Renders the assembly watertight.



#### Ordering instructions

Order
150DR for 12 kV or
K150DR for 24 kV
applications.
The dead-end receptacle can
be supplied with an earth lead.
Order: -/G. E.g. K150DR/G.

#### l 150DP Dead-end plug

Plugs into connectors or receptacles to provide 'deadend' facility. Renders the assembly watertight.

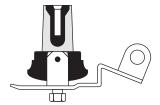


#### Ordering instructions

Order 150DP for 12 kV or K150DP for 24 kV applications.

#### I 151SOP Stand-off plug

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



#### I Ordering instructions

Order 151SOP for 12 kV or K151SOP for 24 kV applications.

#### I 250GP Earthing plug

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



#### Ordering instructions

Order 250GP for 12 kV or 24 kV applications.

#### 200T Separable tee connector

Is designed to connect three cables of the same or varying sizes or two cables to equipment.

For an adapted bail, please refer to the catalogue or contact our representative.



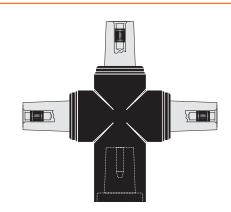
#### Ordering instructions

Order 200T for 12 kV or K200T for 24 kV applications.

#### 200X Separable cross connector

Is designed to connect four cables of the same or varying sizes or three cables to equipment.

For an adapted bail, please refer to the catalogue or contact our representative.

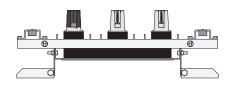


#### Ordering instructions

Order 200X for 12 kV or K200X for 24 kV applications.

#### 1501J3-U-8 Three-way junction

Provides a flexible means of connecting two or three cables of the same or varying sizes. For an adapted bail, please refer to the catalogue or contact our representative.

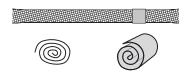


#### Ordering instructions

Order 1501J3-U-8 for 12 kV or K1501J3-U-8 for 24 kV applications.

# 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 cleating and water sealing mastic.



#### I Ordering instructions

Order Kit MT for 12 kV or 24 kV applications.





## BAIL RESTRAINTS INTERFACE A

#### **Application**

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

#### Ordering instructions

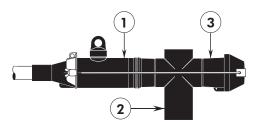
The type of bail restraint is defined by its intended use with different types of connector, receptacle and/or bushing.

To order the bail restraint, specify the type needed.

#### 147BA

For use with:

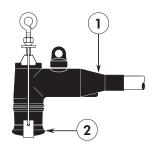
- 1. (K)152SR straight connector,
- 2. (K)200T tee connector and
- 3. (K)150DR dead-end receptacle.



#### 148BA

For use with:

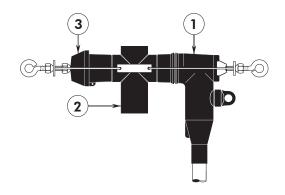
- 1. (K)158LR elbow connector and
- 2. (K)150DP dead-end plug.



#### 149BA

For use with:

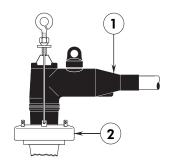
- 1. (K)158LR elbow connector,
- 2. (K)200T tee connector and
- 3. (K)150DR dead-end receptacle.

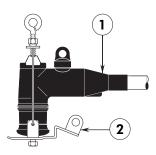


#### 150BA-B1

For use with:

- 1. (K)158LR elbow connector and
- 2. an interface A equipment bushing (shown), 250GP earthing plug, (K)151SOP stand-off plug (shown) or (K)1501J3-U-8 three-way junction.

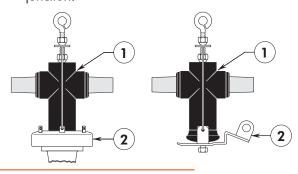




#### 150TB-1

For use with:

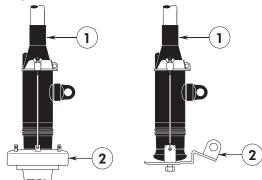
- 1. (K)200T tee connector and
- 2. an interface A equipment bushing (shown), 250GP earthing plug, (K)151SOP stand-off plug (shown) or (K)1501J3-U-8 three way junction.



#### 151BA

For use with:

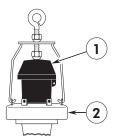
- 1. (K)152SR straight connector and
- 2. an interface A equipment bushing (shown), 250GP earthing plug, (K)151SOP stand-off plug (shown) or (K)1501J3-U-8 three-way junction.



#### 152BA

For use with:

- 1. (K)150DR dead-end receptacle and
- an interface A equipment bushing (shown) or (K)1501J3-U-8 three-way junction.



#### 153BA

For use with:

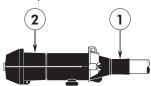
- 1. (K)152SR straight connector and
- 2. (K)150DP dead-end plug.



#### 154BA-CS180

For use with:

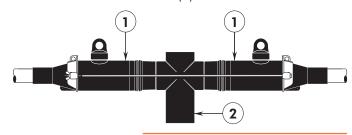
- 1. (K)151SP straight plug and
- 2. (K)150DR dead-end receptacle.



#### 155BA-1

For use with:

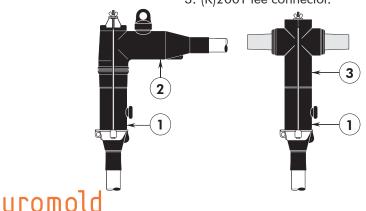
- 1. 2 x (K)152SR straight connector and
- 2. (K)200T tee connector.



#### 155BA-2 - CS180

For use with:

- 1. (K)151SP straight plug and
- 2. (K)158LR elbow connector or
- 3. (K)200T tee connector.

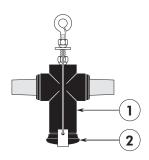


a Nexans company

#### 156BA-1

For use with:

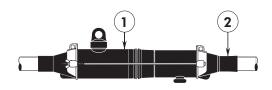
- 1. (K)200T tee connector and
- 2. (K)150DP dead-end plug.



#### 157BA - CS181

For use with:

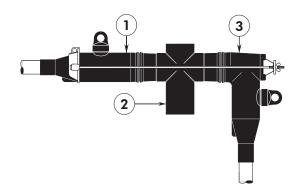
- 1. (K)152SR straight connector and
- 2. (K)151SP straight plug.



#### 158BA

For use with:

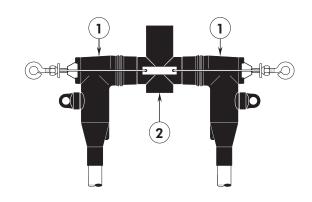
- 1. (K)152SR straight connector,
- 2. (K)200T tee connector and
- 3. (K)158LR elbow connector.



#### 159BA

For use with:

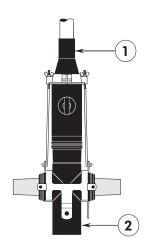
- 1. 2 x (K)158LR elbow connector and
- 2. (K)200T tee connector.



#### 200BA

For use with:

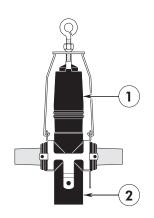
- 1. (K)152SR straight connector and
- 2. (K)200X cross connector.



#### 201BA

For use with:

- 1. (K)158LR elbow connector and
- 2. (K)200X cross connector.

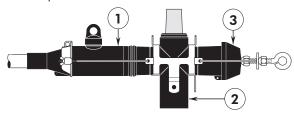




#### 202BA

For use with:

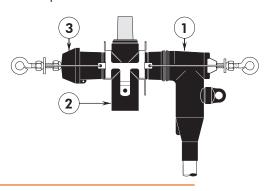
- 1. (K)152SR straight connector,
- 2. (K)200X cross connector and
- 3. (K)150DR dead-end receptacle.



#### 203BA

For use with:

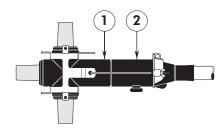
- 1. (K)158LR elbow connector,
- 2. (K)200X cross connector and
- 3. (K)150DR dead-end receptacle.



#### 204BA

For use with:

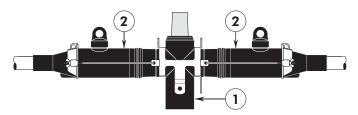
- 1. (K)200X cross connector and
- 2. (K)151SP straight plug.



#### 205BA

For use with:

- 1. (K)200X cross connector and
- 2. 2 x (K)152SR straight connector.

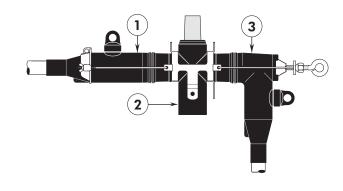




#### 206BA

For use with:

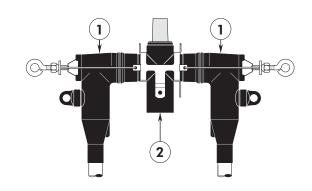
- 1. (K)152SR straight connector,
- 2. (K)200X cross connector and
- 3. (K)158LR elbow connector.



#### 207BA

For use with:

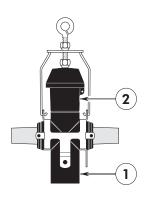
- 1. 2 x (K)158LR elbow connector and
- 2. (K)200X cross connector.



#### 208BA

For use with:

- 1. (K)200X cross connector and
- 2. (K)150DR dead-end receptacle.



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