

Catalogue 2008



EUROMOLD COMPANY PRESENTATION



EUROMOLD

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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

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All our products meet the International standards like CENELEC HD 629.1, CENELEC EN 50180, IEC 60137, IEE 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.



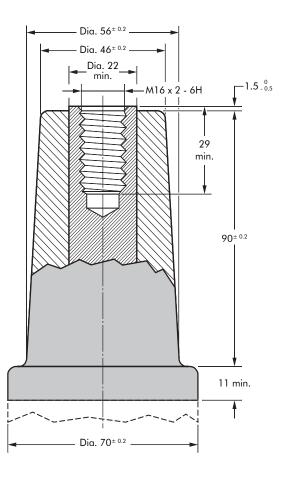
SEPARABLE CONNECTORS AND BUSHINGS INTERFACE C

Table of contents

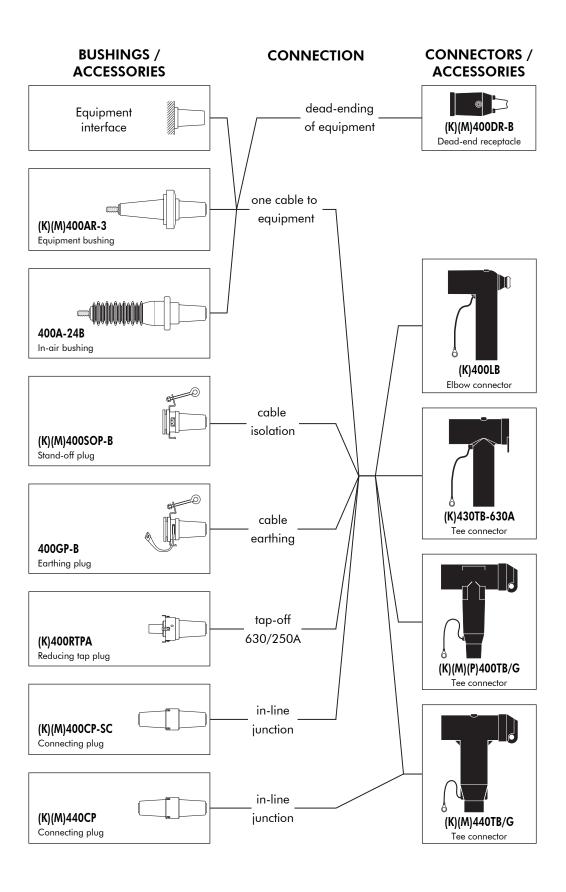
400LB - elbow connector 430TB-630A - tee connector 400TB - tee connector 440TB - tee connector 300PB-630A - coupling connector 400AR-3 - equipment bushing 400A-24B - in-air bushing Fixings for equipment bushings 400PB-XSA - surge arrester 300SA - surge arrester 400TR & 400TR-LB - test rod 400TK-400SW installation tools Accessories Possible arrangements

Interface C

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



Connecting possibilities





400LB INTERFACE C ELBOW CONNECTOR

Application

Separable elbow 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

L

- 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.

Up to 24 kV - 630 A

Design

Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type C 630 A interface as described by CENELEC EN 50180 and 50181.
- 5. Conductor connector (not included in the standard kit).
- 6. Insulating plug.
- 7. Cable reducer.
- 8. Earth lead.
- 9. Transition contact M10/M16.

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

Specifications and standards

The separable connector 400LB meets the requirements of CENELEC HD 629.1.

370 mm		← 205 mm
	370 mm	

	Separable connector	Voltage Um	Current Ir	Conductor	sizes (mm²)
	type	(kV)	(A)	min.	max.
8002/10	400LB K400LB	12 24	630 630	25 25	300 300

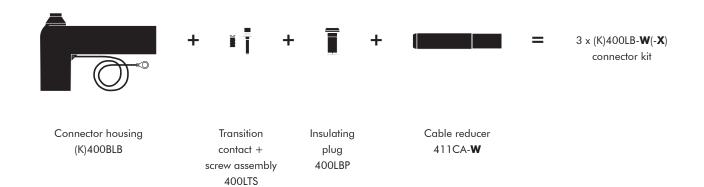
Kit contents

I

I

The complete (K)400LB elbow connector kit comprises 3 x the following components:

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



Ordering instructions

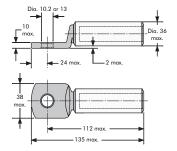
Select the part number which gives the best centring to the cable core insulation diameter. Add a 'K' for use up to 24 kV.

Example:

The copper wire screened cables are 24 kV, 240 mm² stranded aluminium with a diameter over core insulation of 32.2 mm. Order 3 x K400LB-27 elbow connector kit.



Ordering	Dia. over core insulation (mm)			
part number	min.	max.		
3 x 400LB-11	12.0	17.5		
3 x 400LB-15	16.0	22.0		
3 x 400LB-19	20.0	26.5		
3 x 400LB-22	23.5	31.0		
3 x 400LB-25	26.5	32.5		
3 x 400LB-27	28.5	37.5		



Notes:

We do not supply the compression lugs in the standard kit. All types of cable lugs can be used. The lugs must be within the dimensions specified and the palm of the lug must be copper or any equivalent alloy.



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 fabric tape (graphite) screened cables. Order additional semi-conductive tape (type TSC).



Can be supplied with cable lugs.



For outdoor applications. Order: +MWS.



Components can be ordered individually.



Application

motors, ...).

mating parts.

Separable tee shape

connector (bolted type)

designed to connect polymeric

insulated cable to equipment

Also connects cable to cable

when using the appropriate

(transformers, switch gear,

430TB-630A INTERFACE C TEE CONNECTOR

Technical characteristics

• A thick conductive EPDM jacket provides a total safe to touch screen.

T

• Each separable connector is tested for AC withstand and partial discharge prior to leaving the factory. Up to 24 kV - 630 A

6/10 6.35/11 8.7/15 (1 12/20 12.7/22	(12) (12) 7.5) (24)	kV kV kV kV
12.7/22	(24)	kV

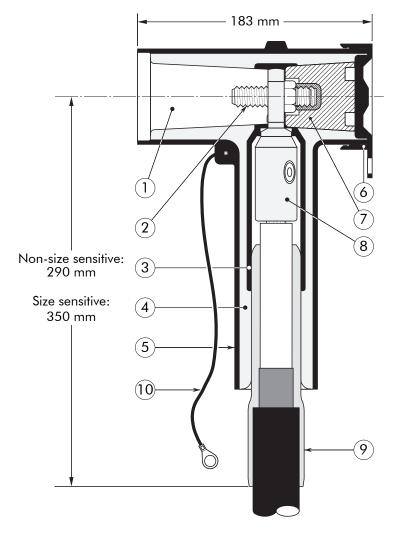
Design

- 1. Type C 630 A interface as described by CENELEC EN 50180 and 50181.
- 2. Clamping screw.
- 3. Conductive EPDM insert.
- 4. Insulating EPDM layer moulded between the
- insert and the jacket.
- 5. Conductive EPDM jacket.
- Conductive rubber cap.
 Basic insulating plug (standard version without voltage detection point).
- 8. Conductor connector
- 9. Cable reducer.
- 10. Earthing lead.

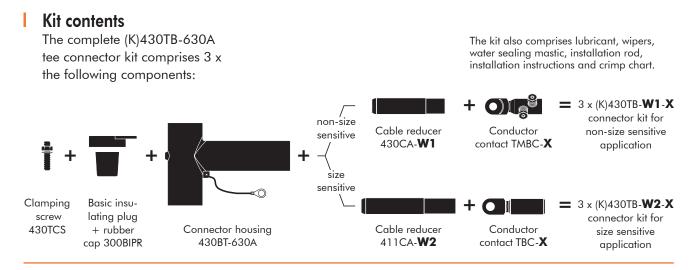
The screen break design enables cable outer sheath testing without removing or dismantling the connector.

Specifications and standards

The separable connector 430TB-630A meets the requirements of CENELEC HD 629.1.



Separable connector	Voltage Um	Current Ir	Conductor sizes (mm ²)		
type	(kV)	(A)	min.	max.	
430TB-630A	12	630	35	300	
K430TB-630A	24	630	35	300	



Non-size sensitive

3 x 430TB-**W1**-X

3 x K430TB-**W1**-X

W1

11

16

18

Ordering instructions

To order the tee connector, use the tables beside to substitute for **W1/W2** and **X** in the formulas. Add a 'K' for use up to 24 kV.

1. From table W1 or W2: select the symbol which gives the best centring of your core insulation diameter.

2. From table X: according to your conductor size and type, select the designation which completes the part number.

Example:

The cable is 24 kV, 150 mm² compact stranded copper with a diameter over core insulation of 27.5 mm. Order 3 x

K430TB-18-95.240-14-5 for a non-size sensitive application or 3 x K430TB-22-150(K)M-11-2 for a size sensitive application.



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 easy strip semi-conductive screened cables. Order: Field control mastic (type MFC).

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a Nexans company

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



For outdoor applications Order: +MWS.



Basic insulating plug also available with a voltage detection point. Order : - /VD.

Table W2

Dia. ov insulatio	W2	
min.	max.	
12.0	17.5	11
16.0	22.0	15
20.0	26.5	19
23.5	31.0	22
26.5	32.5	25
28.5	37.5	27

Size sensitive

3 x 430TB-**W2-X**

3 x K430TB-**W2-X**

Table X

Voltage

Um (kV)

12

24

min.

12.0

17.0

19.0

Dia. over core

insulation (mm)

max.

17.5

23.5

32.6

Table W1

Conduc-	Alu	minium condu	ctor			Copper c	ond	uctor	
tor sizes (mm²)	DIN hexagonal	Deep indent	Bolted		d	DIN hexagonal		Bolteo	ł
35	35(K)M-10-2	35KM-10-1	Ŷ			35(K)M-11-2	Ŷ		
50	50(K)M-10-2	50(K)M-10-1	16.95-14-5	5		50(K)M-11-2	16.95-14-5	2	
70	70(K)M-10-2	70(K)M-10-1	.95	50.150-14-5		70(K)M-11-2	.95	50.150-14-5	
95	95(K)M-10-2	95(K)M-10-1	16	50-	2	95(K)M-11-2	16	50-	5
120	120(K)M-10-2	120(K)M-10-1		0.1	14-5	120(K)M-11-2		0.1	95.240-14-5
150	150(K)M-10-2	150(K)M-10-1		Ū.		150(K)M-11-2		Ω.	4
185	185(K)M-10-2	185(K)M-10-1			95.240-	185(K)M-11-2			5.2
240	240(K)M-10-2	240(K)M-10-1			6	240(K)M-11-2			ő
300	300(K)M-10-2	_		_		300(K)M-11-2		_	

\-10-2 \-10-2	120(K)M-10-1 150(K)M-10-1 185(K)M-10-1 240(K)M-10-1	50.15	95.240-14-5	120(150(185(240(
10-2	-	-		300(
		C		>

400TB INTERFACE C TEE CONNECTOR

Application

Separable tee shape connector (bolted type) designed to connect polymeric insulated cable to equipment (transformers, switch gear, motors, ...). Also connects cable to cable when using the appropriate

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.

Up to 41.5 kV - 630 A

6/10	(12)	kV
6.35/11		k٧
8.7/15 (1	ን.5ነ	k٧
12/20	(24)	k٧
12.7/22		k٧
18/30	(36)	k٧
19/33	1361	k٧
19/33 20.8/36 (4	1.5)	kV
•		

Design

mating parts.

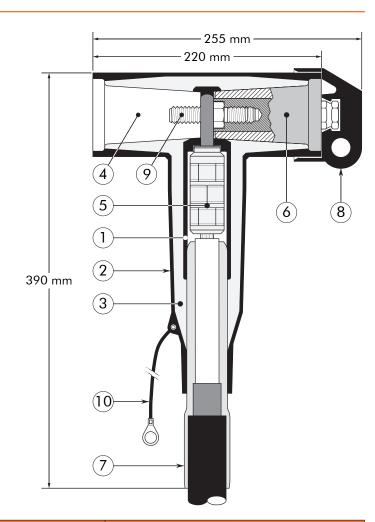
Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- 3. Insulating EPDM layer.
- 4. Type C 630 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. Clamping screw.
- 10. Earthing lead.

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

Specifications and standards

The separable connector 400TB meets the requirements of CENELEC HD 629.1 S1.



Separable connector	Voltage Um	Current Ir Conductor size (mm ²)		size (mm²)
type	(kV)	(A)	min.	max.
400TB/G	12	630	35	300
K400TB/G	24	630	35	300
M400TB/G	36	630	35	240
P400TB/G	41.5	630	35	240
	1	1	1	1

Kit contents I The complete (K)(M)(P)400TB/G The kit also comprises lubricant, wipers, tee connector kit comprises the installation instructions and crimp chart. following components: (K)(M)(P)400TB/G-W-X connector kit Cable reducer Connector housing Clamping Conductor **Basic insulating** 411CA-W (K)(M)(P)400BT/G screw contact plug + 400TCS TBC-X rubber cap (K)(M)(P)400BIPA

400TB/G-27-X

Ordering instructions

To order the tee connector, select the ordering part number which gives you the best centring of your 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, an 'M' for use up to 36 kV or add a 'P' for use up to 41.5 kV.

Example:

The copper wire screened cable is 36 kV, 150 mm² stranded copper with a diameter over core insulation of 32.5 mm. Order a M400TB/G-27-150(K)M-11-2 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.



28.5

For outdoor applications. Order: +MWS.



37.5

Components can be ordered individually.

Dia. over core insulation (mm) Ordering part number min. max. 400TB/G-11-X 12.0 17.5 400TB/G-15-X 16.0 22.0 400TB/G-19-X 20.0 26.5 400TB/G-22-X 23.5 31.0 400TB/G-25-X 26.5 32.5

Table X

Table W

Conductor size	Aluminium	Copper conductor	
(mm ²)	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	50KM-12-1	50(K)M-11-2
70	70(K)M-12-2	70KM-12-1	70(K)M-11-2
95	95(K)M-12-2	95KM-12-1	95(K)M-11-2
120	120(K)M-12-2	120KM-12-1	120(K)M-11-2
150	150(K)M-12-2	150KM-12-1	150(K)M-11-2
185	185(K)M-12-2	185KM-12-1	185(K)M-11-2
240	240(K)M-12-2	240KM-12-1	240(K)M-11-2
300	300(K)M-12-2	300KM-12-1	300(K)M-11-2

440TB INTERFACE C TEE CONNECTOR

Application

Separable tee shape connector (bolted type) designed to connect polymeric insulated cable to equipment (transformers, switch gear, motors, ...). Also connects cable to cable when using the appropriate mating parts.

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.

Up to 36 kV - 630 A

Design

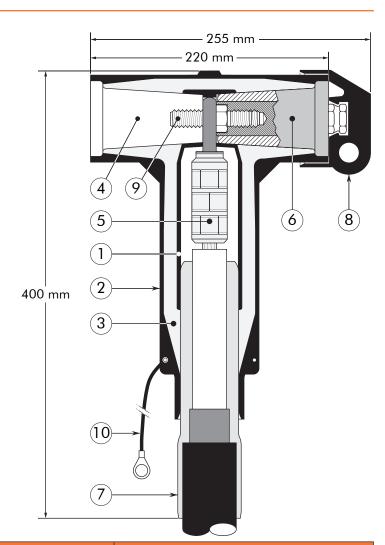
Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type C 630 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. Clamping screw.
- 10. Earthing lead.

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

Specifications and standards

The separable connector 440TB meets the requirements of CENELEC HD 629.1.



	Separable connector	Voltage Um	Current Ir	Conductor	sizes (mm²)
	type	(kV)	(A)	min.	max.
	440TB/G	12	630	185	630
000	K440TB/G	24	630	185	630
1	M440TB/G	36	630	185	630

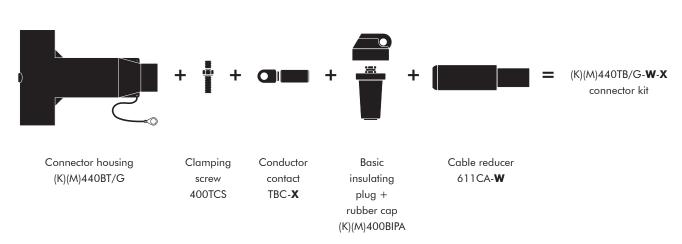
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Kit contents

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The complete (K)(M)440TB/G tee connector kit comprises the following components:

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



Ordering instructions

To order the tee connector, select the ordering part number which gives you the best centring of your 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 and add an 'M' for use up to 36 kV.

Table W

Ordering	Dia. over core insulation (mm)			
part number	min.	max.		
440TB/G-22- X	23.5	31.0		
440TB/G-27- X	28.5	37.5		
440TB/G-32- X	34.0	42.5		
440TB/G-37- X	39.0	48.5		
440TB/G-43- X	45.5	56.0		

Aluminium conductor

Table X

Conductor sizes

 (mm^2)

185

240

300

400

500

630

_			
Exa	m	ple	:

The copper wire screened cable is 36 kV, 240 mm² stranded aluminium with a diameter over core insulation of 37.0 mm. Order a M440TB/G-32-240(K)M-12-2 tee connector kit.



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



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



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



DIN

hexagonal

185(K)M-12-2

240(K)M-12-2

300(K)M-12-2

400(K)M-12-2

500(K)M-12-2

For outdoor applications. Order: +MWS.



Deep

indent

185KM-12-1

240KM-12-1

300KM-12-1

400KM-12-1

500KM-12-1

630KM-12-1

Components can be ordered individually.



Copper conductor

DIN

hexagonal

185(K)M-11-2

240(K)M-11-2

300(K)M-11-2

400(K)M-11-2

500(K)M-11-2

630(K)M-11-2

When installed on an appropriate equipment bushing: 1250 A continuously



300PB-630A COUPLING CONNECTOR FOR 430TB-630A

Application

Separable coupling connector (bolted type) for dual cable arrangement. It has been designed to be used with separable Tee connector 430TB-630A. Total maximum current is 630 A.

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.

Up to 24 kV - 630 A

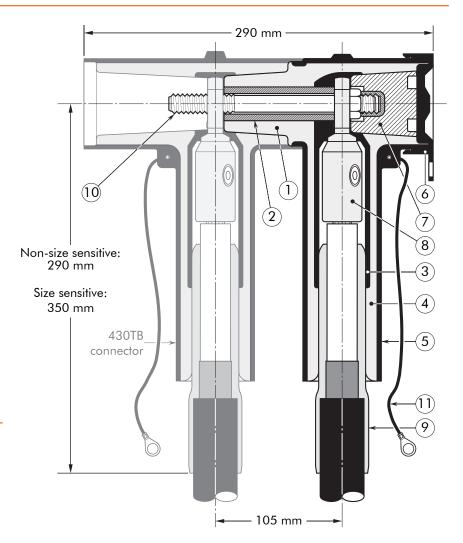
Design

- 1. Interface designed to fit 430TB-630A connector.
- 2. Bus for 300PB.
- 3. Conductive EPDM insert.
- Insulating EPDM layer moulded between the insert and the jacket.
- 5. Conductive EPDM jacket.
- 6. Conductive EPDM cap.
- 7. Basic insulating plug.
- Conductor connector (hexagonal crimping, deep indent crimping or bolted).
- 9. Cable reducer.
- 10. Clamping screw.
- 11. Earth lead.

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

Specifications and standards

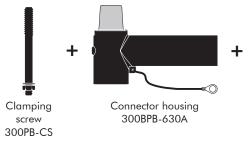
The 300PB-630A coupling connector meets the requirements of CENELEC HD 629.1 for 10 and 20 kV levels.



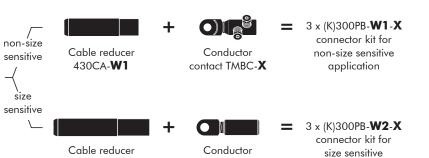
	Separable connector	Voltage Um	Current Ir	Conductor	sizes (mm²)
	type	(kV)	(A)	min.	max.
2008	300PB-630A	12	630	35	300
01/20	K300PB-630A	24	630	35	300

Kit contents

The complete (K)300PB-630A coupling connector kit comprises 3 x the following components:



The kit also comprises silicone grease, water sealing mastic, installation rod, installation instructions and crimp chart.



411CA-**W2**

Dia. over core

insulation (mm)

max.

17.5

23.5

32.6

Voltage

Um (kV)

12

24

Table W1

min.

12.0

17.0

19.0

Ordering instructions

To order the Tee connector, use the tables beside to substitute for **W1/W2** and **X** in the formulas. Add a 'K' for use up to 24 kV.

- From table W1 or W2: select the symbol which gives the best centring of your core insulation diameter.
- 2. From table X: according to your conductor size and type, select the designation which completes the part number.

Example:

The cable is 24 kV, 150 mm² compact stranded copper with a diameter over core insulation of 27.5 mm. Order 3 x K300PB-18-95.240-14-5 for a non-size sensitive application or 3 x K300PB-22-150(K)M-11-2 for a size sensitive application.



For use with

copper tape

screened cables

Order: Kit MT.



For use with fabric tape (graphite) screened cables. Order additional semi-conductive tape (type TSC).



For use with easy strip semi-conductive screened cables. Order: Field control mastic (type MFC).



For use with copper wire screened cables. No earthing device is necessary.



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



For outdoor applications. Order: +MWS.

Table W2

contact TBC-X

Non-size sensitive

3 x 300PB-W1-X

3 x K300PB-W1-X

W1

11

16

18

Dia. ov insulatio	W2		
min.	max.		
12.0	17.5	11	
16.0	22.0	15	
20.0	26.5	19	
23.5	31.0	22	
26.5	32.5	25	
28.5	37.5	27	

Size sensitive

3 x 300PB-**W2-X**

3 x K300PB-**W2-X**

application

Table X

Conduc-	Aluminium conductor			Copper o	ond	uctor			
tor sizes (mm²)	DIN hexagonal	Deep indent	I	Bolted		DIN hexagonal	I	Bolte	d
35	35(K)M-10-2	35KM-10-1	-ç.			35(K)M-11-2	Ŷ		
50	50(K)M-10-2	50(K)M-10-1	-14	5		50(K)M-11-2	16.95-14-5	5	
70	70(K)M-10-2	70(K)M-10-1	16.95-14-5			70(K)M-11-2	.95	14-	
95	95(K)M-10-2	95(K)M-10-1			5	95(K)M-11-2	16	50.150-14-5	6
120	120(K)M-10-2	120(K)M-10-1		0.1	14-5	120(K)M-11-2		0.1	4
150	150(K)M-10-2	150(K)M-10-1		Ω.	•	150(K)M-11-2		Ň	95.240-14-5
185	185(K)M-10-2	185(K)M-10-1			95.240-	185(K)M-11-2			5.2
240	240(K)M-10-2	240(K)M-10-1			6	240(K)M-11-2			ő
300	300(K)M-10-2	_		_		300(K)M-11-2		_	

400AR-3 **INTERFACE C** EQUIPMENT BUSHING

Application

Technical characteristics

Up to 36 kV - 630 A

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

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

6/10 6.35/11 8.7/15 (1 12/20 12.7/22	(12) 7.5) (24)	kV kV kV
12.7/22	(24)	kV
18/30	(36)	kV

Design I

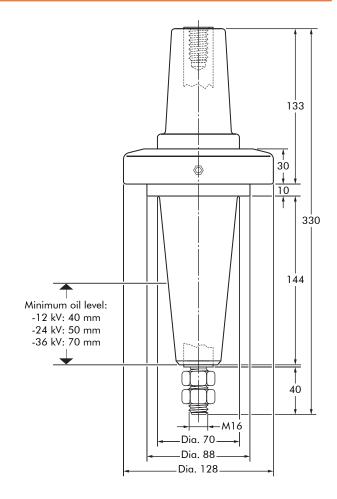
The equipment bushing is a moulded epoxy insulated part in accordance with CENELEC EN 50180.

Specifications and standards

The bolted type equipment bushings 400AR-3 meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions I

To order the equipment bushing, specify the type. The bushings are supplied with an earth lead (/J) or an earth plate (/GS). This earth connection must be specified when ordering. E.g. M400AR-3/GS. For use in potentially explosive atmospheres (for 12 kV max.). Order: -/ATEX.



In mm.

	Equipment bushing type	Voltage Ur (kV)	Current Ir (A)
	400AR-3	12	630
/2008	K400AR-3	24	630
01/20	M400AR-3	36	630

400A-24B INTERFACE C IN-AIR BUSHING

Application

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

Technical characteristics

T

Each bushing is tested for AC withstand and partial discharge prior to leaving the factory. Up to 24 kV - 630 A

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

Specifications and standards

The bolted type equipment bushings 400A-24B meet the requirements of CENELEC EN 50180 and IEC 60137.

Ordering instructions

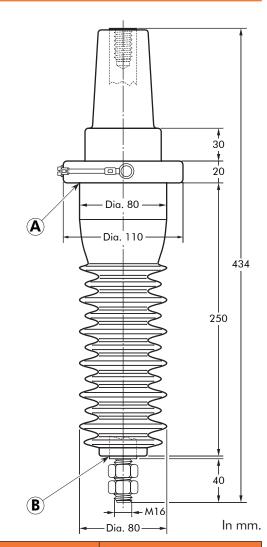
To order the equipment bushing, specify the type. The bushings are supplied with an earth lead.

To include the ring clamp, add:

• /B, if per British standards.

- /D, if per German standards.
- /F, if per French standards. E.g. 400A-24B/D.

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



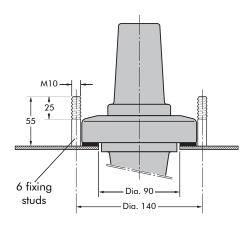
	Equipment bushing type	Voltage Ur (kV)	Current Ir (A)	Creepage distance A-B (mm)	
2008	400A-24B	12	630	500	
01/2(400A-24B	24	630	500	

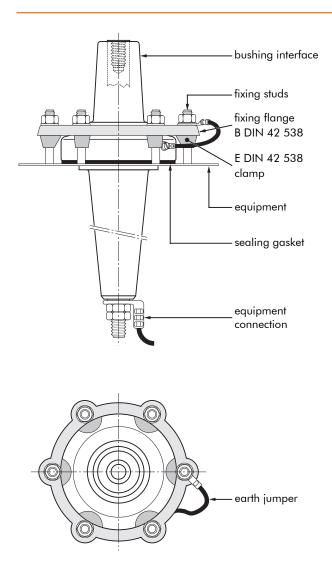


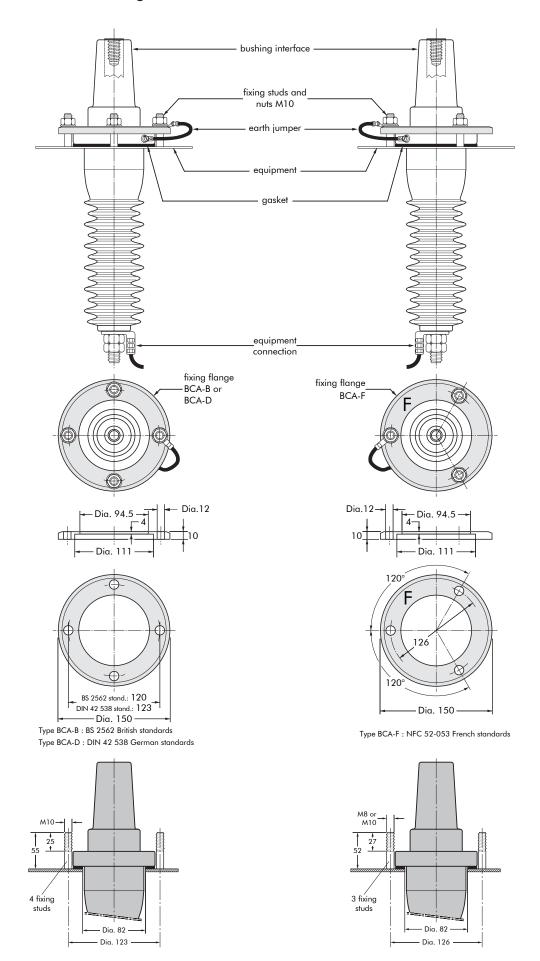
FIXINGS FOR EQUIPMENT BUSHINGS INTERFACE C

400AR-3/J bushing DIN 42 538

German standards.







In mm

400PB-XSA INTERFACE C SURGE ARRESTER

Application

Surge arrester designed to protect medium voltage 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.

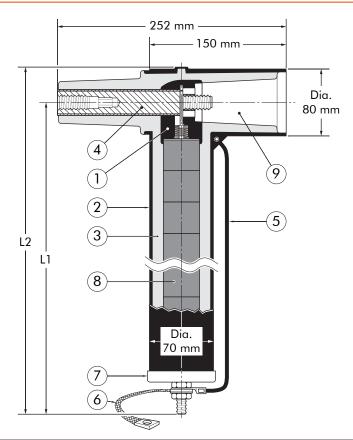
Up to 36 kV

6/10	(12)	kV
6.35/11	(12)	k٧
8.7/15 (1)	ל.5	k٧
12/20		
12.7/22	(24)	k٧
18/30	(36)	kV

Design

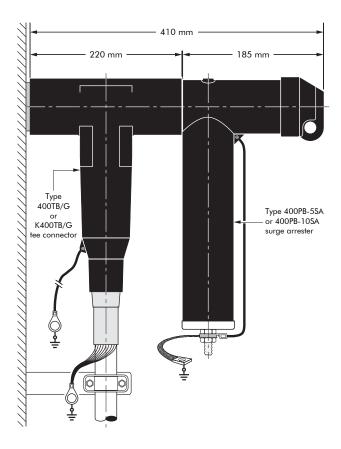
Surge arrester comprising:

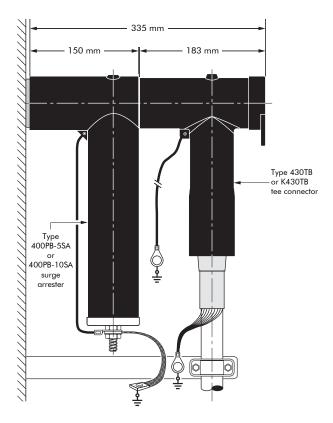
- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- Insulating EPDM layer moulded between the insert and the jacket.
- 4. Contact rod.
- 5. Earth lead.
- 6. Earth connection.
- 7. Steel cap.
- 8. Metal oxide valve elements.
- 9. Type C 630 A interface as described by CENELEC EN 50180 and 50181.

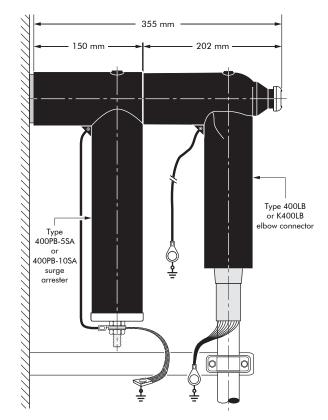


Surge arrester	Nominal discharge current	Rated voltage Ur	Max. continuous operating voltage	Steep current residual voltage @ 5 kA	Lightning current residual voltage @ 5 kA	High current impulse withstand		nsions m)
type	In (kA)	(kV)	Uc (kV)	[1/20 µs] (kV)	[8/20 µs] (kV)	(kA)	L1	L2
400PB-5SA-15L	5	15	12.0	42.4	40.0	65	250	290
400PB-5SA-18L	5	18	14.4	52.7	48.0	65	250	290
400PB-5SA-22L	5	22	17.6	65.7	59.0	65	350	390
400PB-5SA-24L	5	24	19.2	70.0	64.0	65	350	390
400PB-5SA-30L	5	30	24.0	87.3	80.0	65	350	390
400PB-10SA-15N	10	15	12.0	46.2	40.2	100	250	290
400PB-10SA-18N	10	18	14.0	56.0	48.6	100	250	290
400PB-10SA-22N	10	22	17.6	68.9	59.8	100	350	390
400PB-10SA-24N	10	24	19.2	74.4	64.5	100	350	390
400PB-10SA-30N	10	30	24.0	92.7	80.4	100	350	390
400PB-10SA-36N	10	36	28.8	111.1	96.4	100	350	390
400PB-10SA-45N	10	45	36.0	138.2	120.0	100	450	490

I Typical applications and dimensions







Ordering instructions

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

Example:

For a maximum continuous operating voltage (rms) of 24 kV and a nominal discharge current of 10 kA. Order a 400PB-10SA-24N surge arrester.



300SA SURGE ARRESTER FOR 430TB-630A CONNECTOR

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. It has been designed to be used with the separable tee connector 430TB-630A.

Technical characteristics

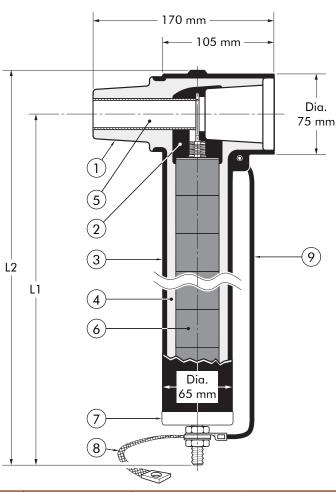
- This surge arrester is a metal oxide varistor surge arrester in an elbow configuration.
- Each arrester is tested for AC withstand, partial discharge and critical voltage prior to leaving the factory.

Up to 24 kV

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

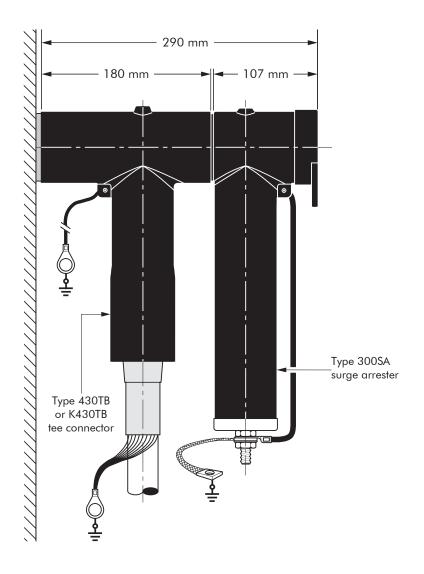
Design

- Surge arrester comprising:
- 1. Interface designed to fit the tee connector 430TB-630A.
- 2. Conductive EPDM insert.
- 3. Conductive EPDM jacket.
- Insulating EPDM layer moulded between the insert and the jacket.
- 5. Receptacle for contact rod.
- 6. Metal oxide valve elements.
- 7. Steel cap.
- 8. Earth connection.
- 9. Earth lead.



Surge arrester	Nominal discharge current	Rated voltage	Max. continuous operating voltage	Dimensions (mm)		
type	In (kA)	Ur (kV)	Uc (kV)	L1	L2	
300SA-10-15N	I 10	15	12.0	260	300	
300SA-10-18N	10	18	14.4	260	300	
300SA-10-22N	10	22	17.6	350	390	
300SA-10-24N	10	24	19.2	350	390	
300SA-10-30N	10	30	24.0	350	390	

I Typical application and dimensions



Ordering instructions To order the surge arrester,

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

Example:

For a maximum continuous operating voltage (rms) of 24 kV and a nominal discharge current of 10 kA. Order a 300SA-10-30N surge arrester.

Technical data

Surge arrester type	arrester voltage @ 10 kA		Lightning current residual voltage [8/20 µs] (kV)			Switching impulse residual voltage [36/90 µs] (kV)	
.71	[1/20 µs] (kV)	@ 5 kA	@ 10 kA	@ 20 kA	@ 1 25 A	@ 500 A	(kA)
300SA-10-15N	49.6	40.8	44.5	49.8	32.4	34.2	100
300SA-10-18N	59.6	49.0	53.4	59.8	38.8	41.0	100
300SA-10-22N	69.5	57.1	62.3	69.7	45.3	47.9	100
300SA-10-24N	79.4	65.3	71.2	79.7	51.8	54.7	100
300SA-10-30N	99.3	81.6	89.0	99.6	64.7	68.4	100



400TR and 400TR-LB INTERFACE C TEST RODS

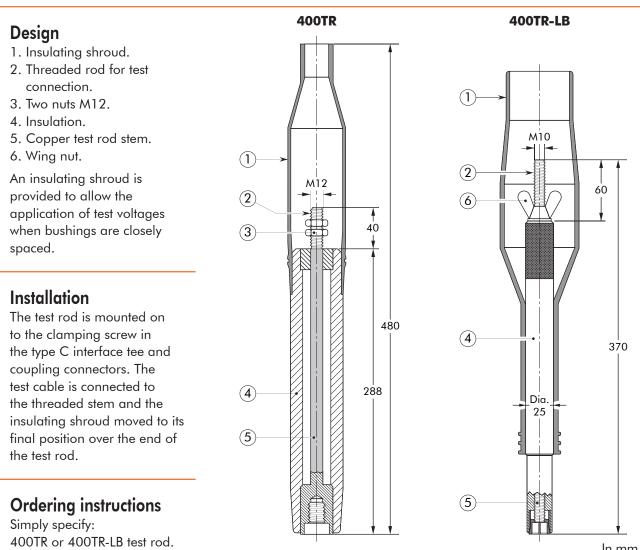
Application

L

- The test rod can be used for:
 - cable fault location
 - cable testing
 - phasing checks, etc.
- Connections may be made with a cable lug, a 4 mm plug or spring clips.

Technical characteristics

- The 400TR test rod can be used with 400TE, 430TB, 400TB and 440TB connectors.
- The 400TR-LB is for use with the 400LB connector.



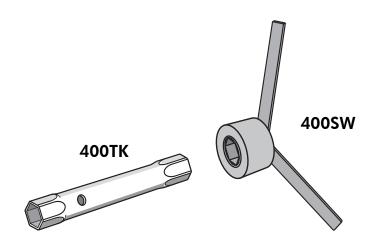
In mm.

	Test rod type	Maximum A.C. test voltage (50 Hz - 1 min.)	Maximum D.C. test voltage (8 x U ₀ - 30 min.)	Impulse voltage (1.2 x 50 μs) min.
/2008	400TR	36 kV	96 kV	95 kV
01/2	400TR-LB	36 kV	96 kV	95 kV

400TK & 400SW INSTALLATION TOOL

Application

- The box spanner and box spanner key are designed to facilitate assembly of 400TE, 400TB and 440TB connectors.
- The 400TK box spanner is used to install the 400TEF clamping pin contact or 400TCS clamping screw.
- The 400SW box spanner key fits on the hex nut of the 400BIPA basic insulating plug.



Ordering instructions

Simply specify: - 400TK box spanner - 400SW box spanner key

01/2008

ACCESSORIES

Application

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

Technical characteristics

L

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

Up to 36 kV

6/10 (12	
6.35/11 (12 8.7/15 (17.5) kV
12/20 (24 12.7/22 (24) kV
18/30 (36) kV

400DR-B Dead-end receptacle

Fits over a bushing with a type C interface to provide 'deadend' facility.

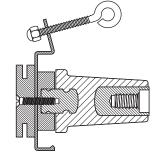


Ordering instructions

Order 400DR-B for 12 kV, K400DR-B for 24 kV or M400DR-B for 36 kV applications. The dead-end receptacle can be supplied with an earth lead. Order: -/G. E.g. K400DR-B/G.

400SOP-B Stand-off plug

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

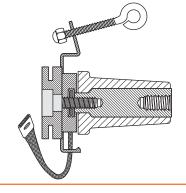


Ordering instructions

Order 400SOP-B for 12 kV, K400SOP-B for 24 kV or M400SOP-B for 36 kV applications.

A00GP-B Earthing plug

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



Order 400GP-B for 12, 24 or 36 kV applications.

300GP-B Earthing plug

Is designed to earth the 430TB-630A connectors when it is fixed-mounted to the equipment (maintenance earthing).



Order 300GP-B for 12 or 24 kV applications.

400BIPA Basic insulating plug

I

Acts as a tightening nut for the 400TB and 440TB tee connector kits. The plug contains a voltage detection point. The conductive rubber protection cap is included.

430CP Connecting plug

For connecting two or more 430TB-630A connectors, thus creating a separable cable joint or a multiple cable connection to equipment.

400CP-SC Connecting plug

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

440CP Connecting plug

For connecting two or more 440TB connectors, thus creating a separable cable joint or a multiple cable connection to equipment. For use up to 1250 A. Only for use with 440TB.

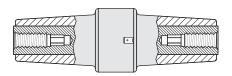
400RTPA Reducing tap plug

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

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

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 some water sealing mastic.



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Ordering instructions

400BIPA for 12 kV, K400BIPA for 24 kV or M400BIPA for 36 kV applications.

Ordering instructions

430CP for 12 kV or K430CP for 24 kV applications.

Ordering instructions

Order 400CP-SC for 12 kV, K400CP-SC for 24 kV or M400CP-SC for 36 kV applications.

Ordering instructions

L

Order 440CP for 12 kV, K440CP for 24 kV or M440CP for 36 kV applications. Order: -/ATEX for use in potentially explosive atmospheres (for 12 kV max.).

Ordering instructions

400RTPA for 12 kV or K400RTPA for 24 applications. Order 600SW for the 'C' spanner.

Order Order Kit MT for 12 kV, 24 kV

Kit MT for 12 kV, 24 kV 36 kV or 41.5 kV applications.





600SW







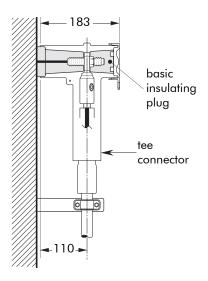
POSSIBLE ARRANGEMENTS INTERFACE C

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430TB

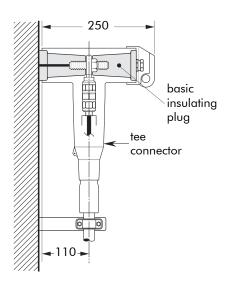
T

Single cable arrangement. Order 430TB for 12 kV or K430TB for 24 kV applications.



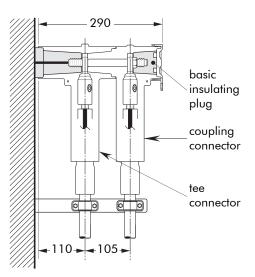
400TB/G

Single cable arrangement. Order 400TB/G for 12 kV, K400TB/G for 24 kV, M400TB/G for 36 kV or P400TB/G for 41.5 kV applications.



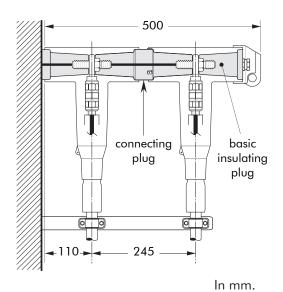
430TB+300PB

Dual cable arrangement. Order 430TB+300PB for 12 kV or K430TB+K300PB for 24 kV applications.

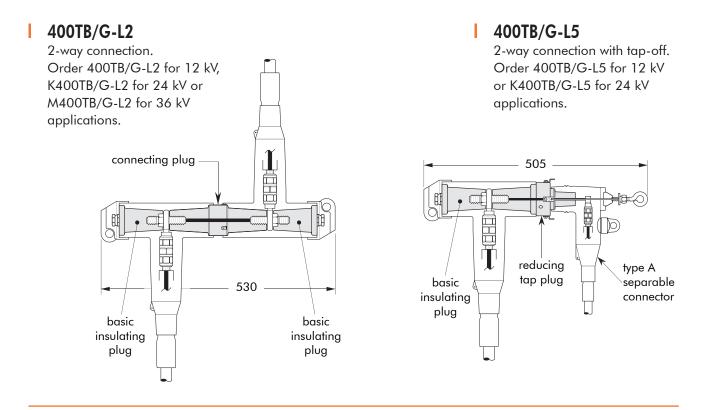


400TB/G-P2

Dual cable arrangement. Order 400TB/G-P2 for 12 kV, K400TB/G-P2 for 24 kV or M400TB/G-P2 for 36 kV applications.

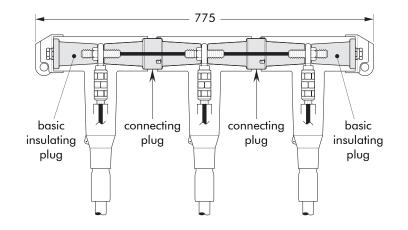


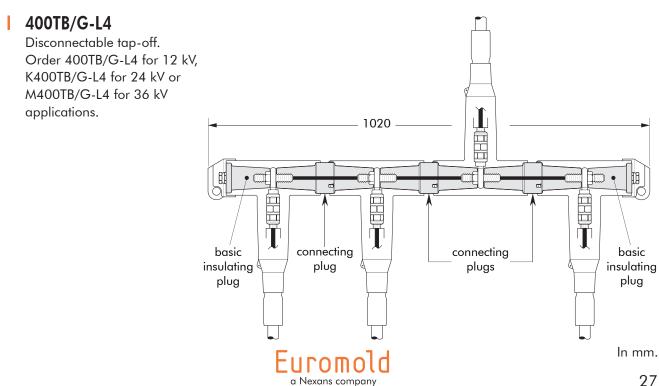
01/2008



400TB/G-L3

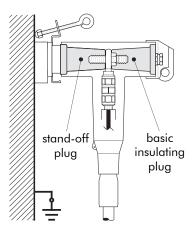
3-way connection. Order 400TB/G-L3 for 12 kV, K400TB/G-L3 for 24 kV or M400TB/G-L3 for 36 kV applications.





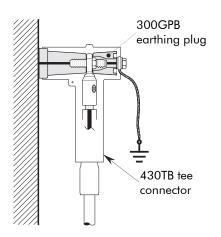
Connector on stand-off plug

Order 400SOP-B for 12 kV, K400SOP-B for 24 kV or M400SOP-B for 36 kV applications.



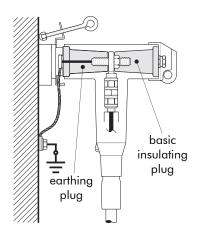
Earthing plug on connector

Order 300GP-B for 12 kV and 24 kV applications.



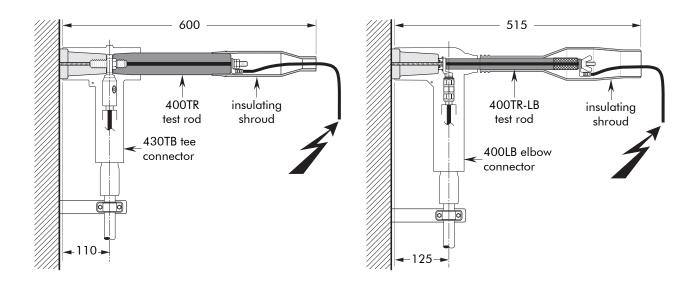
Connector on earthing plug

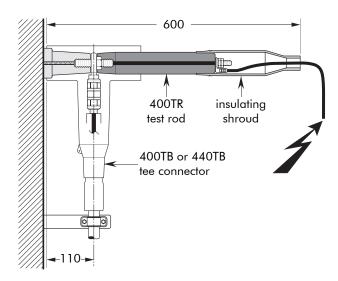
Order 400GP-B for 12 kV, 24 kV and 36 kV applications.





Cable and equipment testing.







In mm.

Additional catalogue information on power cable accessories is available by contacting us at the address below:

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