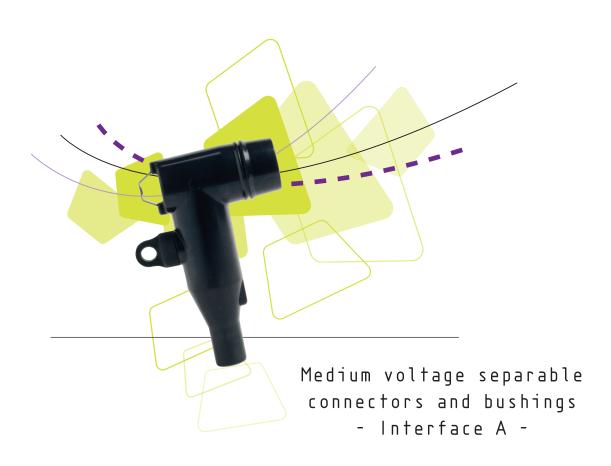


# Euromold a Nexans company





# Nexans Network Solutions Div. Euromold

#### **COMPANY PRESENTATION**













#### **EUROMOLD**

Euromold is the leading European specialised designer, manufacturer and distributor of prefabricated cable accessories for medium voltage energy distribution. Euromold provides a complete range of accessories for underground cables: premoulded EPDM rubber connectors for cables and epoxy bushings for transformers and switchgear, as well as a large range of coldshrinkable 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

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#### International standards

All our products meet the International standards like CENELEC HD 629.1, CENELEC EN 50180, IEC 60137, IEC 60502-4... or country specifications. Official certificates, CESI, KEMA, ATEX... prove the conformity of our products. Long duration tests of existing or new products are continuously performed in our test fields.

#### Laboratory accreditation

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# SEPARABLE CONNECTORS AND BUSHINGS INTERFACE A

#### Table of contents

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

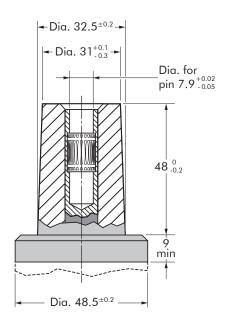
PITO-E - plug-in termination

Accessories

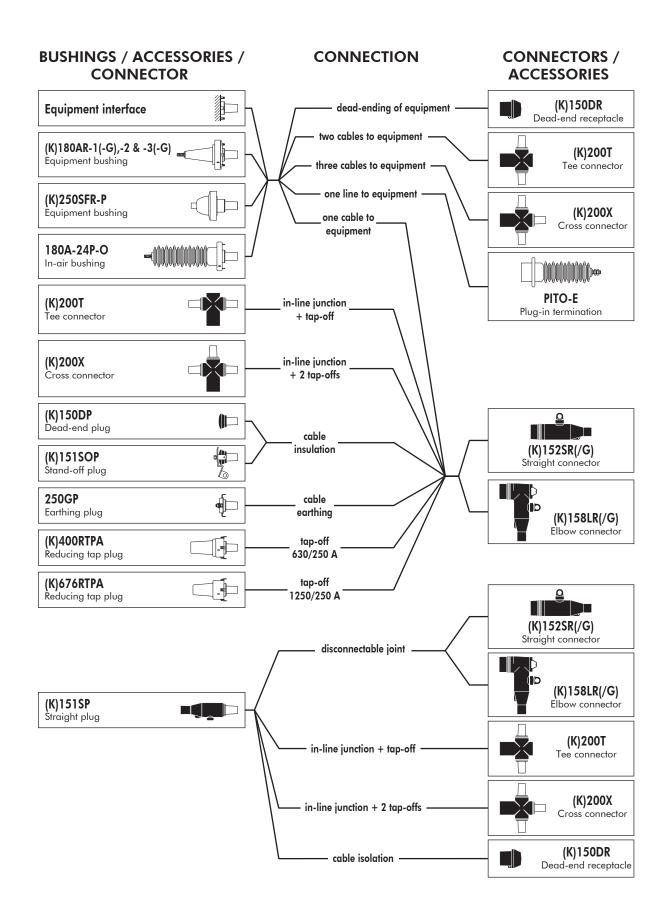
**Bail** restraints

#### 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

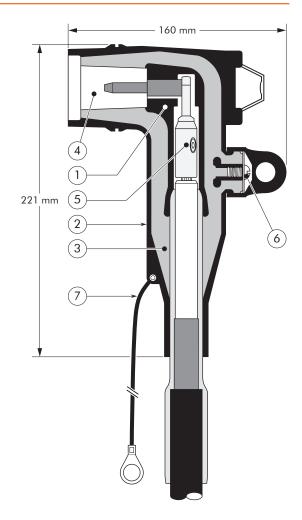
# Design

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.
- 7. 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)
type	(kV)	(A)	min	max
158LR/G	12	250	16	95
158LR	12	250	70	95
K158LR/G	24	250	16	70
K158LR	24	250	25	95

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

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:**

or

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 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	

Cable adaptor

11TL

#### **Table X**

Conductor sizes	Aluminium		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	

<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	35 - 70
158LR-GAS-50.95-14-5+11TL	19.7 - 25.4	25 - 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.



# Euromold a Nexans company





# Nexans Network Solutions Div. Euromold

#### **COMPANY PRESENTATION**













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# **SEPARABLE CONNECTORS AND BUSHINGS**

## Table of contents

400LR - elbow connector

400TE - tee connector

400T1 - equipment bushing

400AR-1 - equipment bushing

400AR-2 - equipment bushing

400AR-8 - equipment bushing

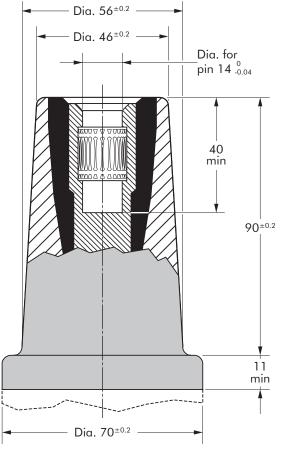
400SFR-P - equipment bushing

Accessories

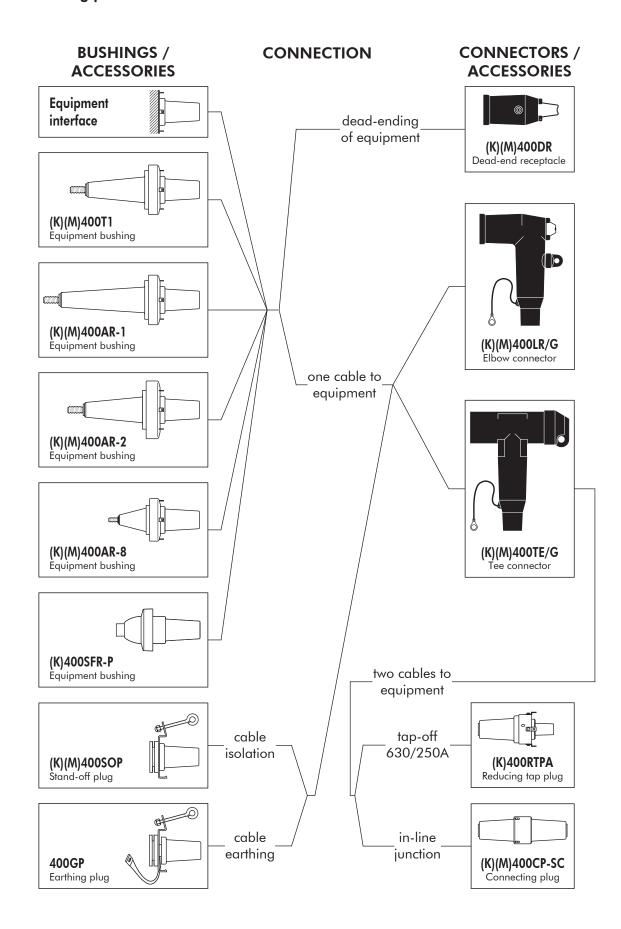
Possible arrangements

# Interface B

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



# I Connecting possibilities







# **400LR INTERFACE B ELBOW CONNECTOR**

Up to 36 kV - 400 A

# **Application**

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

#### **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) 8.7/15 (17.5) kV 12/20 (24) kV 12.7/22 (24) kV 18/30 (36) kV

# Design

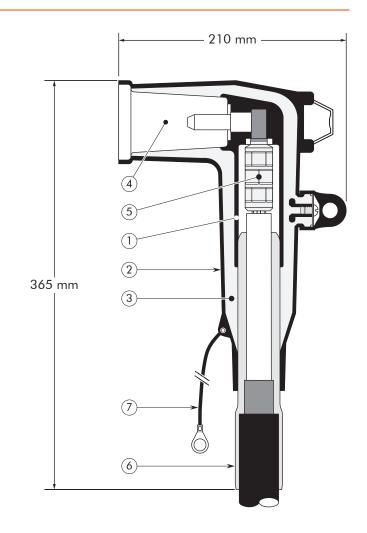
Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- 3. Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type B 400 A interface as described by CENELEC EN 50180 and 50181.
- 5. Conductor connector.
- 6. Cable reducer.
- 7. Earthing lead.

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

## Specifications and standards

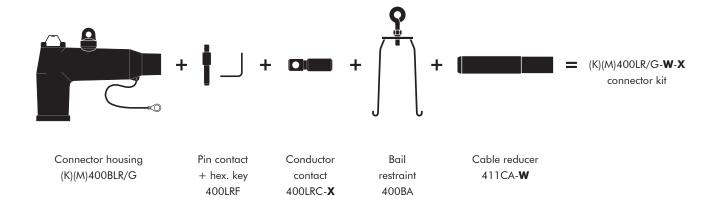
The separable connector 400LR meets the requirements of CENELEC HD 629.1.



Separable connector	Voltage Um	Current Ir	Conductor	sizes (mm²)
type	(kV)	(A)	min	max
400LR/G	12	400	50	240
K400LR/G	24	400	25	240
M400LR/G	36	400	35	185

The complete (K)(M)400LR/G elbow connector 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 and add an 'M' for use up to 36 kV.

#### Table W

Ordering	Dia. over core insulation (mm)		
part number	min	max	
400LR/G-11- <b>X</b>	12.0	17.5	
400LR/G-15- <b>X</b>	16.0	22.0	
400LR/G-19- <b>X</b>	20.0	26.5	
400LR/G-22- <b>X</b>	23.5	31.0	
400LR/G-25- <b>X</b>	26.5	32.5	
400LR/G-27- <b>X</b>	28.5	37.5	

#### Table X

Conductor sizes	Alumi	Aluminium	
(mm²)	DIN hexagonal	Deep indent	DIN hexagonal
25	-	-	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
120	120(K)M-12-2	120(K)M-12-1	120(K)M-11-2
150	150(K)M-12-2	150(K)M-12-1	150(K)M-11-2
185	185(K)M-12-2	185(K)M-12-1	185(K)M-11-2
240	240(K)M-12-2	240(K)M-12-1	240(K)M-11-2

#### **Example:**

The copper wire screened cable is 12 kV, 150 mm<sup>2</sup> stranded copper with a diameter over core insulation of 23.5 mm.

Order a 400LR/G-19-150(K)M-11-2 elbow 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 with fabric tape (graphite) screened cables. Order additional semi-conductive tape (type TSC).



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



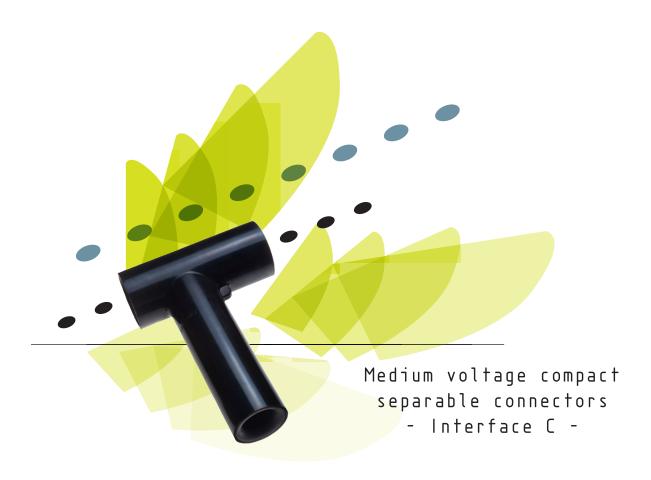
For applications outdoors and in humid climate.
Order: +MWS.



Components can be ordered individually.









# Nexans Network Solutions Div. Euromold

**COMPANY PRESENTATION** 













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# **SEPARABLE CONNECTORS INTERFACE C**

#### Table of contents

430TB - tee connector 484TB - tee connector

300PBM - coupling connector

430TBM-P2/P3 - dual/triple cable arrangement

804PB - coupling connector

300SA - surge arrester

800SA - surge arrester

400TR and 800TR - test rod

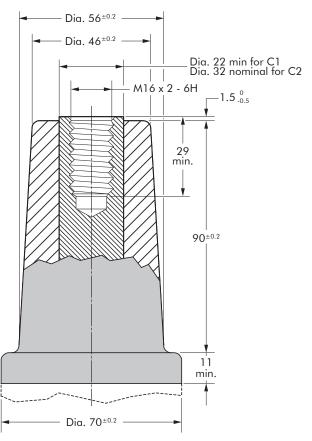
400TK and 400SW installation tools

Accessories

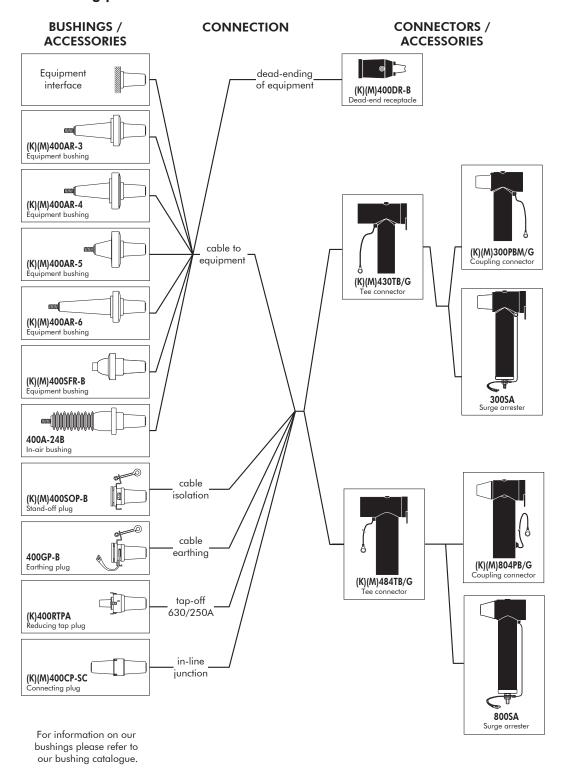
Possible arrangements

# Interface C1 & C2

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



# I Connecting possibilities







# 430TB **INTERFACE C TEE CONNECTOR**

# **Application**

Separable tee shape connector (bolted type) designed to connect polymeric insulated cable to equipment (transformers, switchgear, motors, ...).

Also connects cable to cable when using the appropriate mating parts.

# **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 36 kV 630 A (800 A)

6/10 (12) kV 6.35/11 (12) 8.7/15 (17.5) kV 12/20 (24) kV 12.7/22 (24) kV 18/30 (36) kV 19/33 (36) kV

# Design

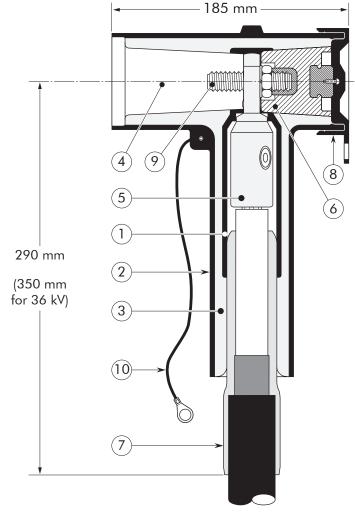
Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- 3. Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type C 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

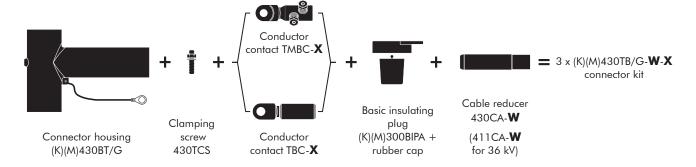
The 430TB separable connector meets the requirements of CENELEC HD 629.1.



Separable connector	Voltage Um	Current Ir	Current Ir (A)  When installed on an appropriate equipment bushing and when using a copper (-11-2) or a	Conductor	sizes (mm²)
type	(kV)	(A)	bolted (-12-5 or -14-5) conductor contact	min	max
430TB/G K430TB/G M430TB/G	12 24 36	630 630 630	800 800 800	35 35 50	300 300 240

The complete (K)(M)430TB/G tee connector kit comprises 3 x the following components:

The kit also comprises silicone grease, field control mastic, installation rod, 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.

#### **Example:**

The cable is 24 kV, 150 mm<sup>2</sup> compact stranded copper with a diameter over core insulation of 27.5 mm.

Order 3 x K430TB/G-18-95.240-14-5 tee connector kit.

#### **Table W**

Ordering	Voltage	Dia. over core insulation (n	
part number	(Um) (kV)	min	max
3 x 430TB/G-11- <b>X</b>	12	12.0	17.5
3 x 430TB/G-16- <b>X</b>	12	17.0	23.5
3 x 430TB/G-18- <b>X</b>	12	19.0	32.6
3 x K430TB/G-11- <b>X</b>	24	12.0	17.5
3 x K430TB/G-16- <b>X</b>	24	17.0	23.5
3 x K430TB/G-18- <b>X</b>	24	19.0	32.6
3 x M430TB/G-11- <b>X</b>	36	12.0	17.5
3 x M430TB/G-15- <b>X</b>	36	16.0	22.0
3 x M430TB/G-19- <b>X</b>	36	20.0	26.5
3 x M430TB/G-22- <b>X</b>	36	23.5	31.0
3 x M430TB/G-25- <b>X</b>	36	26.5	32.5
3 x M430TB/G-27- <b>X</b>	36	28.5	37.5

#### Table X

Conductor	Aluminium conductor		Aluminium and copper conductor			Copper conductor		
sizes (mm²)	DIN hexagonal	Deep indent		Bolted			DIN hexagonal	
35	35(K)M-10-2	35KM-10-1	-5-				35(K)M-11-2	
50	50(K)M-10-2	50(K)M-10-1	16.95-14-5				50(K)M-11-2	
70	70(K)M-10-2	70(K)M-10-1	.95	4-5			70(K)M-11-2	
95	95(K)M-10-2	95(K)M-10-1	16	-05	50.150-14-5		95(K)M-11-2	
120	120(K)M-10-2	120(K)M-10-1		0.15		2	120(K)M-11-2	
150	150(K)M-10-2	150(K)M-10-1		2		-12-	150(K)M-11-2	
185	185(K)M-10-2	185(K)M-10-1			5.2	120.300-12-5	185(K)M-11-2	
240	240(K)M-10-2	240(K)M-10-1			6	20.3	240(K)M-11-2	
300	300(K)M-10-2	_				Ë	300(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 easy strip semi-conductive screened cables. Order: Field control mastic (type MFC).



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



For applications outdoors and in humid climate.
Order: +MWS.



When installed on an appropriate equipment bushing: 800 A continuously





484TB INTERFACE C

**TEE CONNECTOR** 

# Application

Separable tee shape connector (bolted type) designed to connect polymeric insulated cable to equipment (transformers, switchgear, 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 42 kV 630 A (1250 A)

6/10 (12) kV 6.35/11 (12) kV 8.7/15 (17.5) kV 12/20 (24) kV 12.7/22 (24) kV 18/30 (36) kV 19/33 (36) kV 20.8/36 (42) kV

# Design

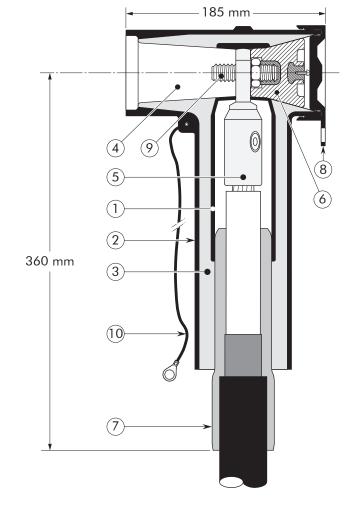
Separable connector comprising:

- 1. Conductive EPDM insert.
- 2. Conductive EPDM jacket.
- Insulating EPDM layer moulded between the insert and the jacket.
- 4. Type C 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

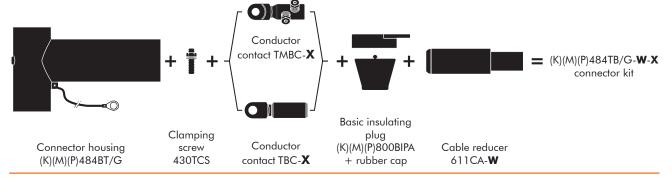
The 484TB separable connector meets the requirements of CENELEC HD 629.1.



Separable connector	Voltage Um	Current Ir	Current Ir (A) When installed on an	Conductor sizes (mm²)		
type	(kV)	(A)	appropriate equipment bushing	min	max	
484TB/G	12	630	1250	50	630	
K484TB/G	24	630	1250	35	630	
M484TB/G	36	630	1250	35	630	
P484TB/G	42	630	1250	35	630	

The complete (K)(M)(P)484TB/G tee connector kit comprises 3x the following components:

The kit also comprises silicone grease, field control mastic, gloves, roll adhesive tape, 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, add an 'M' for use up to 36 kV, add a 'P' for use up to 42 kV.

#### **Example:**

The copper wire screened cable is 36 kV, 240 mm<sup>2</sup> stranded aluminium with a diameter over core insulation of 37.0 mm.

Order 3 x

M484TB/G-32-240(K)M-12-2 tee connector kit.

#### **Table W**

Ordering	Dia. over core insulation (mm)			
part number	min	max		
3 x 484TB/G-15- <b>X</b>	16.0	22.0		
3 x 484TB/G-19- <b>X</b>	20.0	26.5		
3 x 484TB/G-22- <b>X</b>	23.5	31.0		
3 x 484TB/G-27- <b>X</b>	28.5	37.5		
3 x 484TB/G-32- <b>X</b>	34.0	42.5		
3 x 484TB/G-37- <b>X</b>	39.0	48.5		
3 x 484TB/G-43- <b>X</b>	45.5	56.0		

#### Table X

Conduc- tor sizes	Aluminium conductor		Aluminium and copper conductor	Copper conductor
(mm²) DIN hexagonal		Deep indent	Bolted	DIN hexagonal
35	35(K)M-12-2	35KM-12-1	ဟု	35(K)M-11-2
50	50(K)M-12-2	50KM-12-1	16,95-14-5	50(K)M-11-2
70	70(K)M-12-2	70KM-12-1	16.9	70(K)M-11-2
95	95(K)M-12-2	95KM-12-1	50.150-14-5	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	50.1 95.240-14-5 120.300-12-5	150(K)M-11-2
185	185(K)M-12-2	185KM-12-1	300-	185(K)M-11-2
240	240(K)M-12-2	240KM-12-1	120.30	240(K)M-11-2
300	300(K)M-12-2	300KM-12-1	5.40	300(K)M-11-2
400	400(K)M-12-2	400KM-12-1	18	400(K)M-11-2
500	500(K)M-12-2	500KM-12-1	S	500(K)M-11-2
630	-	630KM-12-1	1	630(K)M-11-2



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



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



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



For applications outdoors and in humid climate.
Order: +MWS.



Components can be ordered individually.



When installed on an appropriate equipment bushing: 1250 A continuously



# **300PBM COUPLING CONNECTOR** FOR 430TB/G

# **Application**

Separable coupling connector (bolted type) for dual cable arrangement. It has been designed to be used with 430TB separable Tee 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.

Up to 36 kV 630 A (1250 A)

6/10 (12) kV 6.35/11 (12) 8.7/15 (17.5) 12/20 (24) kV 12.7/22 (24) kV 18/30 (36) kV 19/33 (36) kV

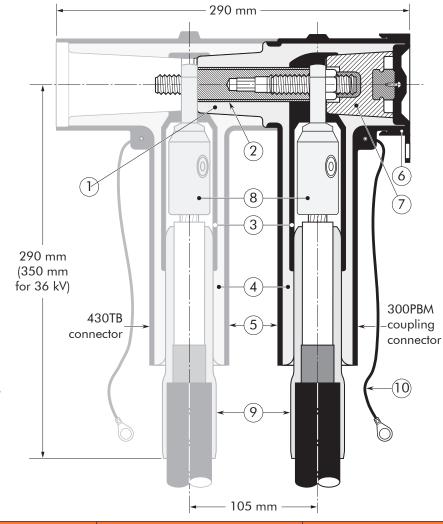
# Design

- 1. Interface designed to fit 430TB connector.
- 2. Bus for 300PBM.
- 3. Conductive EPDM insert.
- 4. Insulating EPDM layer moulded between the insert and the jacket.
- 5. Conductive EPDM jacket.
- 6. Conductive EPDM cap.
- 7. Basic insulating plug (with VD point).
- 8. Conductor connector (hexagonal crimping, deep indent crimping or bolted).
- 9. Cable reducer.
- 10. Earthing lead.

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

### Specifications and standards

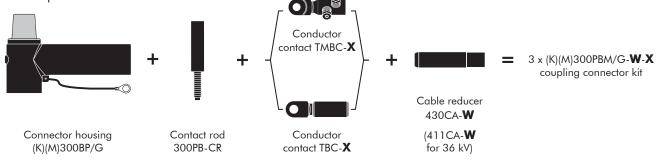
The 300PBM coupling connector meets the requirements of CENELEC HD 629.1.



Separable connector	Voltage Um	Current Ir	Current Ir (A)  When installed on an appropriate equipment bushing and when using a copper (-11-2) or a	Conductor sizes (mm²)		
type (kV)	(A)	bolted (-12-5 or -14-5) conductor contact	min	max		
300PBM/G K300PBM/G M300PBM/G	12 24 36	630 630 630	1250 1250 1250	35 35 50	300 300 240	

The complete (K)(M)300PBM/G coupling connector kit comprises 3 x the following components:

The kit also comprises silicone grease, field control mastic, installation rod, installation instructions and crimp chart.



# Ordering instructions

To order the coupling 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.

#### **Example:**

The cable is 24 kV, 150 mm<sup>2</sup> compact stranded copper with a diameter over core insulation of 27.5 mm.

Order 3 x K300PBM/G-18-95.240-14-5 coupling connector kit.

#### Table W

Ordering	Voltage (Um)	Dia. over core insulation (mm)			
part number	(kV)	min	max		
3 x 300PBM/G-11- <b>X</b>	12	12.0	17.5		
3 x 300PBM/G-16-X	12	17.0	23.5		
3 x 300PBM/G-18- <b>X</b>	12	19.0	32.6		
3 x K300PBM/G-11- <b>X</b>	24	12.0	17.5		
3 x K300PBM/G-16-X	24	17.0	23.5		
3 x K300PBM/G-18- <b>X</b>	24	19.0	32.6		
3 x M300PBM/G-11-X	36	12.0	17.5		
3 x M300PBM/G-15-X	36	16.0	22.0		
3 x M300PBM/G-19- <b>X</b>	36	20.0	26.5		
3 x M300PBM/G-22- <b>X</b>	36	23.5	31.0		
3 x M300PBM/G-25- <b>X</b>	36	26.5	32.5		
3 x M300PBM/G-27- <b>X</b>	36	28.5	37.5		

#### Table X

Conductor	Aluminium conductor		Aluminium and copper conductor		Copper conductor		
sizes (mm²)	DIN hexagonal	Deep indent	Bolted			DIN hexagonal	
35	35(K)M-10-2	35KM-10-1	-5			35(K)M-11-2	
50	50(K)M-10-2	50(K)M-10-1	-14			50(K)M-11-2	
70	70(K)M-10-2	70(K)M-10-1	16.95-14-5	4-5		70(K)M-11-2	
95	95(K)M-10-2	95(K)M-10-1	2	9		95(K)M-11-2	
120	120(K)M-10-2	120(K)M-10-1		50.150-14-5	120.300-12-5	120(K)M-11-2	
150	150(K)M-10-2	150(K)M-10-1		5 -04		150(K)M-11-2	
185	185(K)M-10-2	185(K)M-10-1		50.15 95.240-14-5	900	185(K)M-11-2	
240	240(K)M-10-2	240(K)M-10-1		6	20.3	240(K)M-11-2	
300	300(K)M-10-2	_			<del></del>	300(K)M-11-2	



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.



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