

Separable, screened
connector systems

Euromold
a Nexans company

Nexans, **global** leader in cables



- Total sales of **7,2 billion euros** in 2012
- **The most complete range** of cables and cabling systems
- Plants in **40 countries**
- **25,000 employees** worldwide
- Complete offers **for every market segment**

Expert in power cable **accessories**



- Sales in **90+ countries**
- **600 employees** worldwide
- More than **50 years of experience in cable accessories**
- Nexans provides **installer training** and cable preparation **tools**
- Committed to **quality**: ISO 9001 certified and 5 electrical laboratories
- The **leading** European designer and manufacturer of power accessories

Global expert

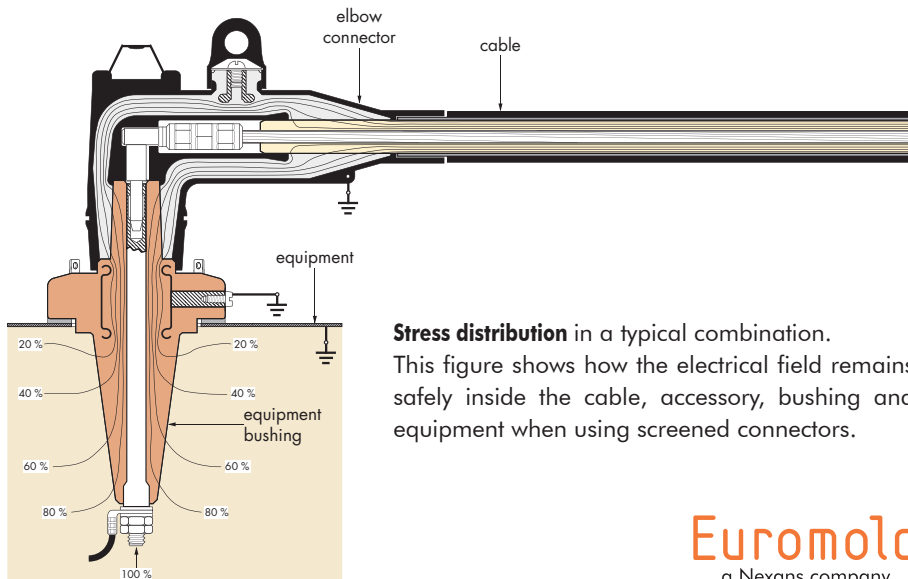


Track
record
of more than
50 years in power
accessories

Expert in separable, screened connectors



A screened connector is an encapsulated, safe to touch termination used to connect MV cables to the epoxy bushings of equipment (such as transformers, switch gear, motors...).



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a Nexans company



Compact,
safe & secure




















Safety
provided
by a 3 mm
thick
conductive
rubber
layer

Advantages of screened connector systems



- No minimum distances required:
can be installed in **compact** substations
- **Safe** to touch accidentally when energized
- **Maintenance** free
- **Quick and easy** to install without special tools
- Easy to **disconnect**
- Fully **watertight**
- Degree of **protection** IP67:
dust tight & immersion in water
- **Resistant** to UV, ozone, chemicals, mechanical abuse
- **Temperature** range from -30°C to +110°C
- Offers many **test** options: capacitive test point, cable tests ...
- A complete range for **12 to 42 kV**
- Can be used **outdoors** without cable box

Overview of the product family

Interface type	Current	12 kV			24 kV			36 kV		
A	250 A	 152SR	 158LR		 K152SR	 K158LR				
B	400 A	 400LR	 400TE		 K400LR	 K400TE	 M400LR	 M400TE		
C	630 A 1250 A	 430TB	 484TB	 489TB	 K430TB	 K484TB	 K489TB	 M430TB	 M484TB	 M489TB

A complete line of accessories

with possibilities for voltage detection, cable testing and multiple arrangement

TRANSFORMATOR N°1
36/11kV - 25MVA





158LR

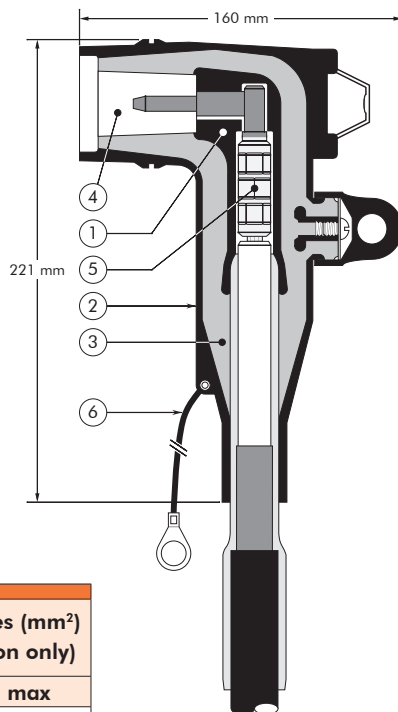
INTERFACE A
ELBOW CONNECTOR

Up to 24 kV - 250 A

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 - 250 A interface as described by CENELEC EN 50180 and 50181.
5. Conductor connector.
6. Earthing lead (-/G version only).



Separable connector type	Voltage Um (kV)	Current Ir (A)	Conductor sizes (mm ²) (for information only)	
			min	max
158LR/G	12	250	16	70
158LR	12	250	70	95
K158LR/G	24	250	16	25
K158LR	24	250	25	95

The image shows three vertical, black, cylindrical high-voltage electrical insulators mounted on a grey metal base. Each insulator has a red, circular base component. Yellow plastic straps are wrapped around the middle section of each insulator. The background is a light blue, textured wall. The text 'Reliability' is in large white font, and 'guaranteed by the factory testing' is in smaller white font, both overlaid on the image.

Reliability

guaranteed by the factory
testing

of every part on partial
discharges and industrial
power frequency

180AR-1 /-2 /-3

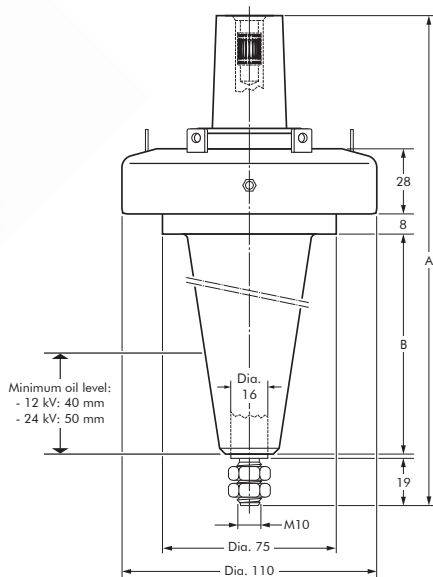
INTERFACE A

EQUIPMENT BUSHING

Up to 24 kV - 250 A

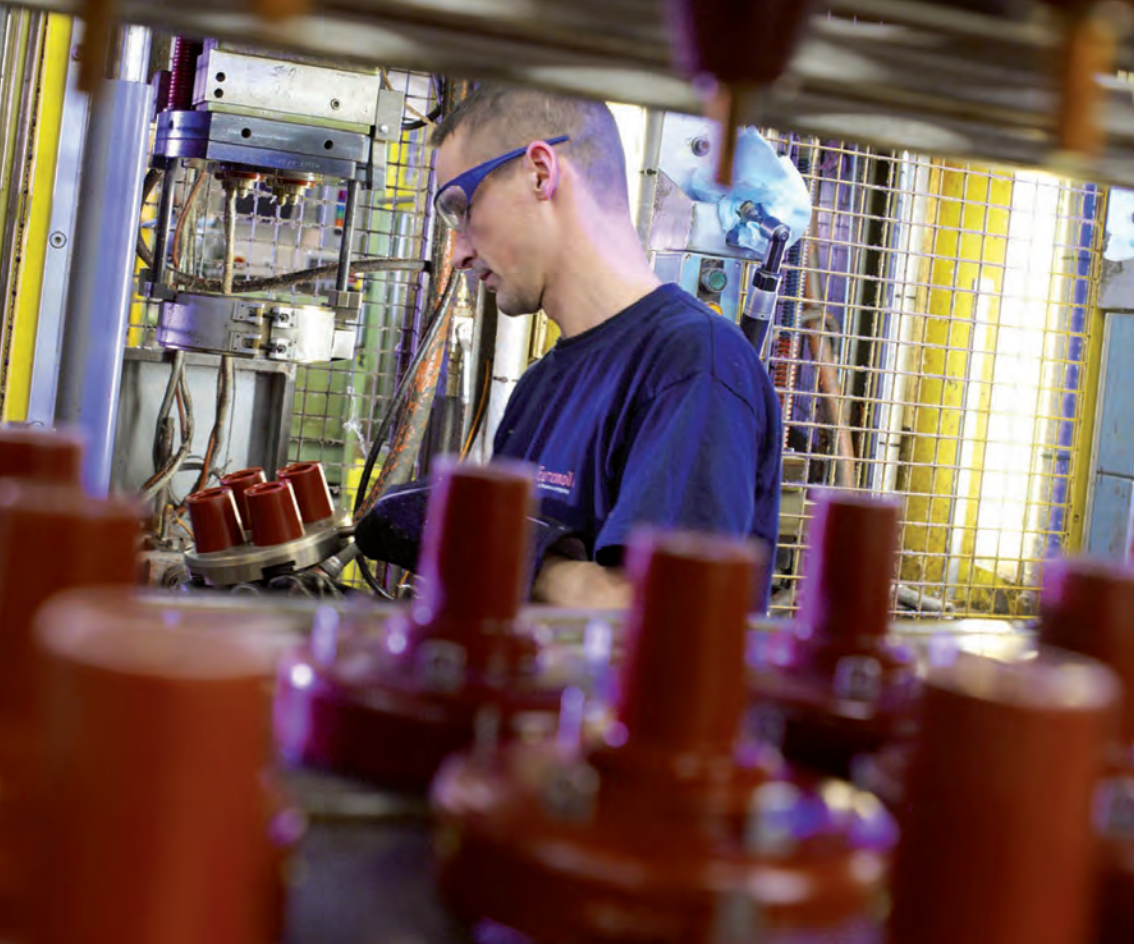


Epoxy bushing for use in equipment insulated with oil fluid, typically for transformers, switch gear, capacitors...



Equipment bushing type	Voltage Ur (kV)	Current Ir (A)	Dimensions (mm)	
			A	B
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

Zero maintenance





430TB

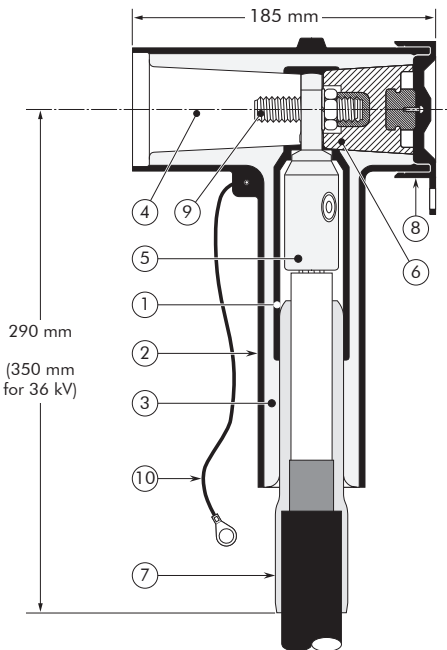
INTERFACE C

TEE CONNECTOR

Up to 36 kV
630 A (1250 A)

Design

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.



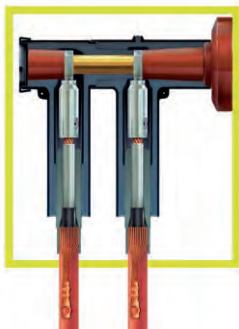
Separable connector type	Voltage U_m (kV)	Current I_r (A)	Current I_r (A) <small>When installed on an appropriate equipment bushing</small>	Conductor sizes (mm ²)	
				min	max
430TB	12	630	1250	35	300
K430TB	24	630	1250	35	300
M430TB	36	630	1250	50	240

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

A man with glasses and a dark blue shirt is shown from the chest up, leaning forward. He is holding a black, cylindrical handheld device with a grey base and a black cord. He is using the device to dry a metal whisk. The background is a kitchen with stainless steel cabinets and a range hood.

Simplicity

speed
and ease
of installation
offered by the premoulded
slip-on technology



430TBM-P2/P3

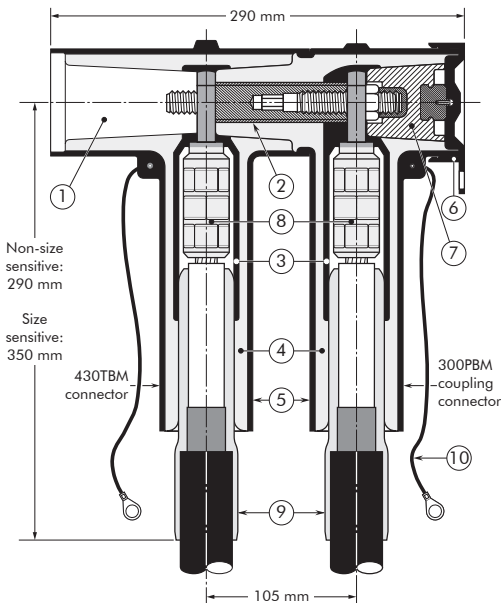
DUAL/TRIPLE CABLE ARRANGEMENT

FOR 430TB

Up to 36 kV
630 A (1250 A)

Design

1. Type C interface as described by CENELEC EN 50180 and 50181.
2. Bus for 300PB.
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.
9. Cable reducer.
10. Earthing lead.

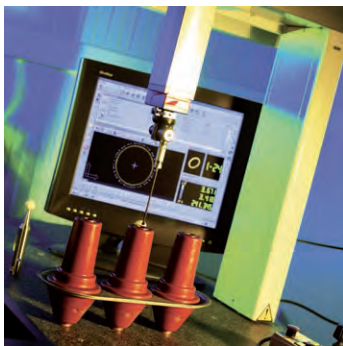


Separable connector type	Voltage U_m (kV)	Current I_r (A)	Current I_r (A) When installed on an appropriate equipment bushing	Conductor sizes (mm ²)	
				min	max
430TBM-P2/P3	12	630	1250	35	300
K430TBM-P2/P3	24	630	1250	35	300
M430TBM-P2/P3	36	630	1250	50	240



The most
modern and
automated

production
facilities
in the
accessories
world



400AR-3

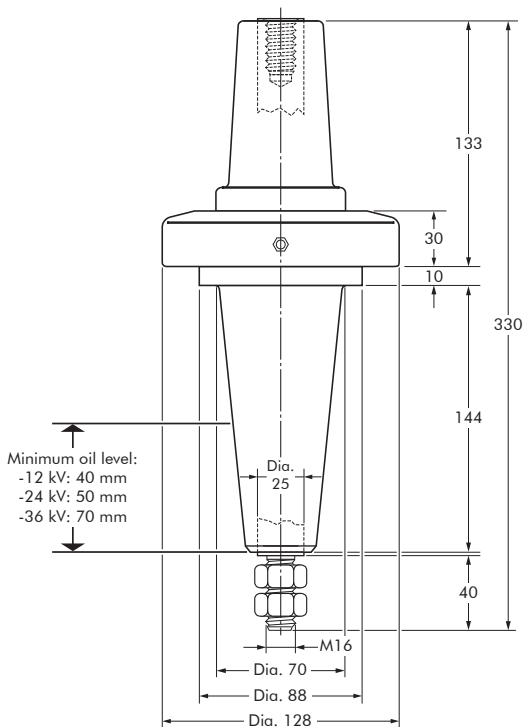
INTERFACE C

EQUIPMENT BUSHING

Up to 36 kV - 630 A

Epoxy bushing for use in equipment insulated with oil fluid, typically for transformers, switch gear, capacitors...

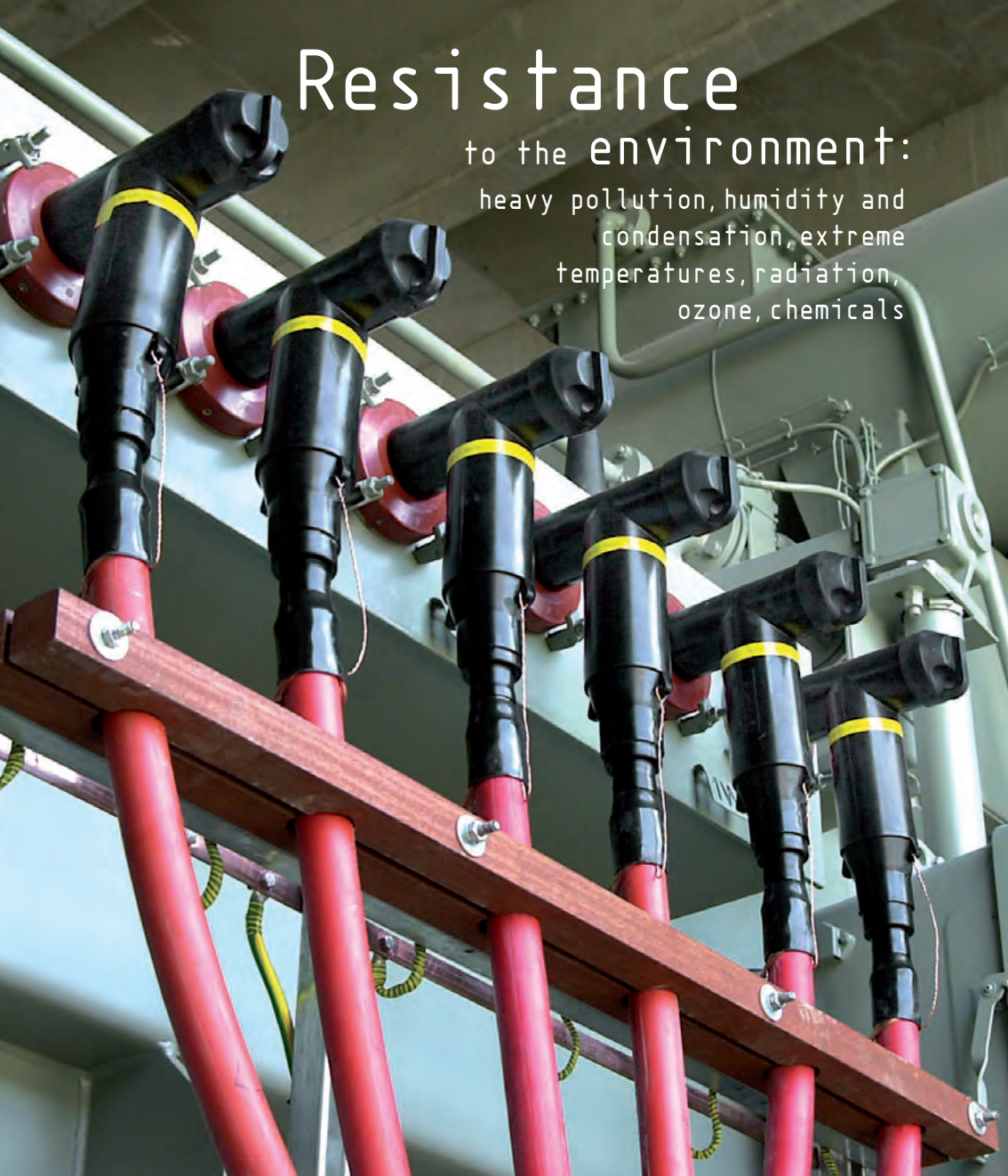
Equipment bushing type	Voltage Ur (kV)	Current Ir (A)
400AR-3	12	630
K400AR-3	24	630
M400AR-3	36	630



Resistance

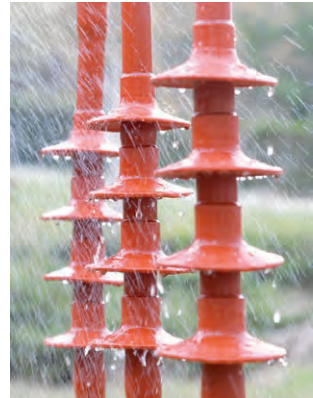
to the environment:

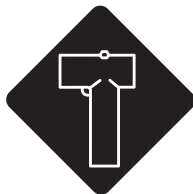
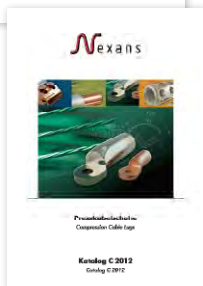
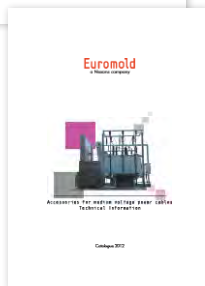
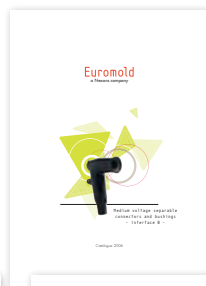
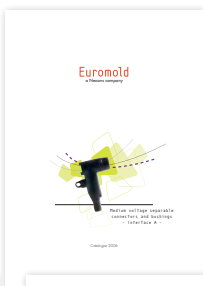
heavy pollution, humidity and
condensation, extreme
temperatures, radiation,
ozone, chemicals



Full catalogue

This document is a selection of our extended product range. We are also producer of cold and heat-shrinkable joints and terminations and all types of ferrules and lugs. In order to get a full catalogue of our complete medium voltage accessories range, please send us an e-mail or check www.euromold.be.





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