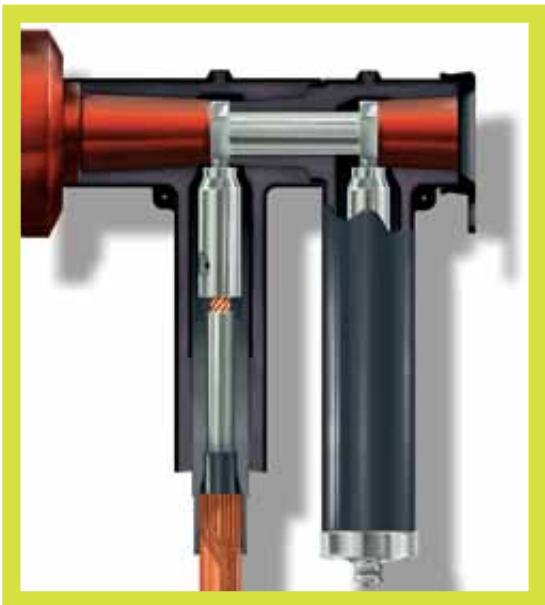
Nexans



Shielded surge arresters

Euromold
a Nexans company

Nexans, **worldwide leader** for the cable industry

- Total sales of **6 billion euros** in 2010
- **The most complete range** of cables and cabling systems
- Plants in **40 countries**
- **23,700 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 power 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

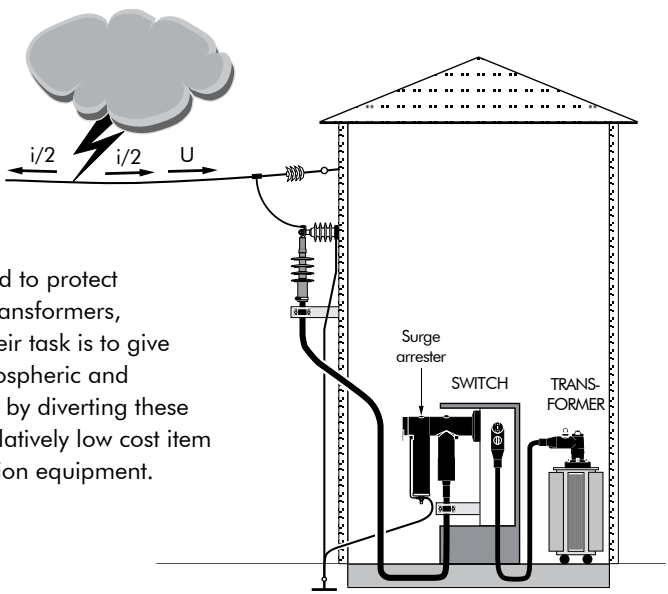
Track record
of more than 50 years
in power accessories

Expert in

separable,

screened

surge arresters



Surge arresters are used to protect equipment: switches, transformers, cables, accessories. Their task is to give protection against atmospheric and switching overvoltages, by diverting these to the ground. It is a relatively low cost item compared to other station equipment.

Euromold

a Nexans company

Compact,

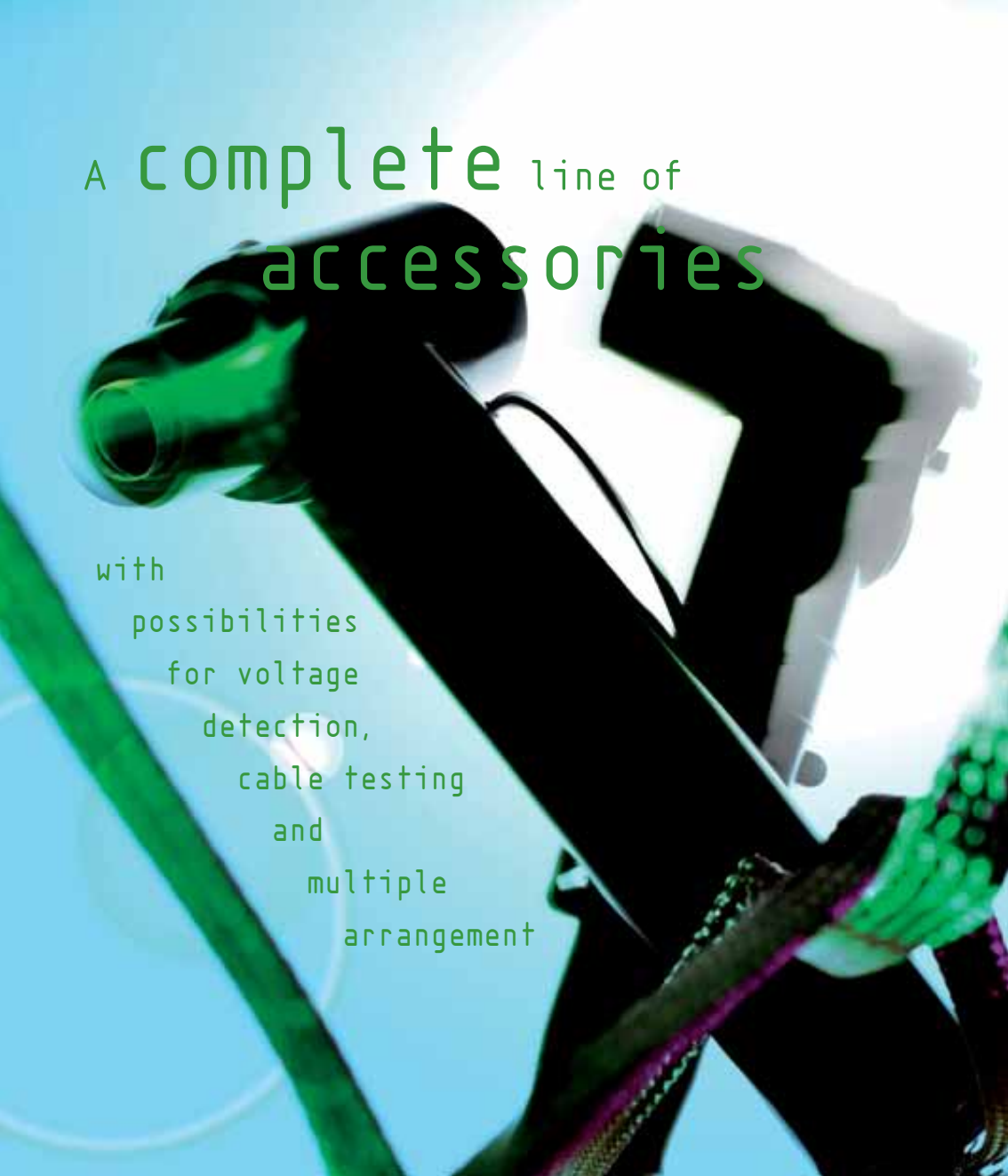
safe & secure

Safety

provided
by a 3 mm thick
conductive
rubberlayer

Advantages of **screened** **surge arrester** systems

- No minimum distances required: can be installed in **compact** substations
- **Safe** to touch when energised by accident
- **Maintenance** free
- **Stable** U-I characteristics, even after multiple strikes
- Low residual voltage
- Explosion and **shatter-resistant** design
- **Atex** certified products
- **Quick and easy** to install without special tools
- Easy to **disconnect**
- Fully **watertight**
- Degree of **protection** IP67: dust and water tight
- **Animals** cannot harm the screened connection
- **Resistant** to UV, ozone, chemicals, mechanical abuse
- **Temperature** range from -30°C to +110°C
- A complete range for **12 to 42 kV**
- Fully **qualified** following IEC 60099-04


A complete line of
accessories
with
possibilities
for voltage
detection,
cable testing
and
multiple
arrangement

156SA

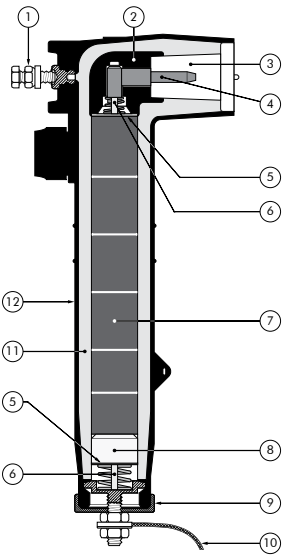
INTERFACE A
SURGE ARRESTER

Up to 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	Nominal discharge current In (kA)	Rated voltage Ur (kV)	Max. continuous operating voltage Uc (kV)	Steep current residual voltage @ 5 kA [1/20 μs] (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

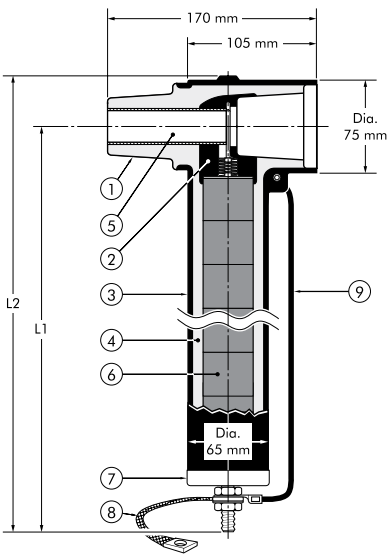
Reliability

guaranteed by the factory testing of every part on partial discharges, reference current test and industrial power frequency

300SA

INTERFACE C
SURGE ARRESTER

Up to 36 kV



Design

1. Interface designed to fit the tee connector 430TB and 434TB.
2. Conductive EPDM insert.
3. Conductive EPDM jacket.
4. 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 type	Nominal discharge current In (kA)	Rated voltage Ur (kV)	Max. continuous operating voltage Uc (kV)	Steep current residual voltage @ 5 kA [1/20 μs] (kV)	Lightning current residual voltage @ 5 kA [8/20 μs] (kV)	High current impulse withstand (kA)	Dimensions (mm)	
							L1	L2
300SA-10-15N	10	15	12.0	48.1	39.7	100	230	270
300SA-10-18N	10	18	14.0	58.1	48.0	100	230	270
300SA-10-22N	10	22	17.6	70.1	57.9	100	230	270
300SA-10-24N	10	24	19.2	77.0	63.6	100	320	360
300SA-10-30N	10	30	24.0	97.0	80.1	100	320	360
300SA-10-36N	10	36	28.8	115.9	95.7	100	320	360
300SA-10-45N	10	45	36.0	144.1	119.0	100	430	470

Simplicity

speed and ease

of installation

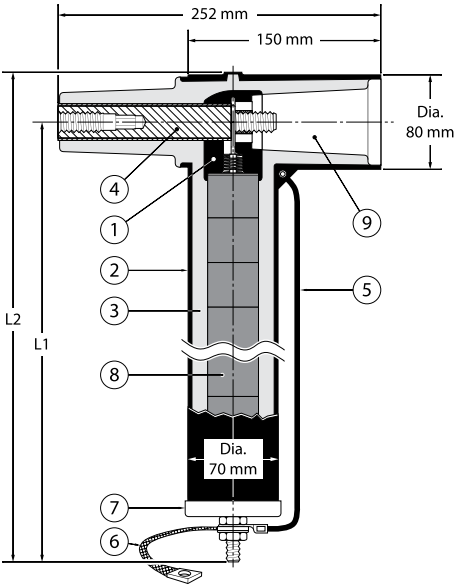
offered by the premoulded

slip-on technology

400PB-XSA

INTERFACE C
SURGE ARRESTER

Up to 36 kV



Design

1. Conductive EPDM insert.
2. Conductive EPDM jacket.
3. 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.

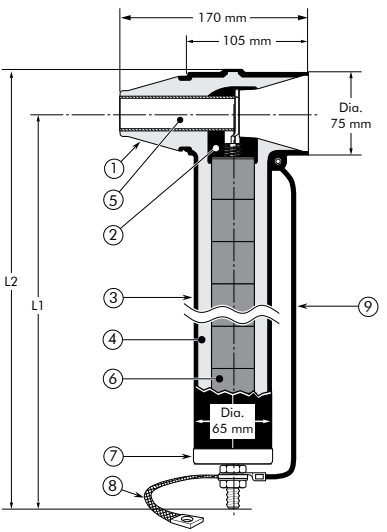
Surge arrester type	Nominal discharge current In (kA)	Rated voltage Ur (kV)	Max. continuous operating voltage Uc (kV)	Steep current residual voltage @ 10 kA [1/20 µs] (kV)	Lightning current residual voltage @ 5 kA [8/20 µs] (kV)	High current impulse withstand (kA)	Dimensions (mm)	
							L1	L2
400PB-5SA-15L	5	15	12.0	47.1	38.9	65	250	290
400PB-5SA-18L	5	18	14.4	56.5	46.7	65	250	290
400PB-5SA-22L	5	22	17.6	69.2	57.1	65	350	390
400PB-5SA-24L	5	24	19.2	75.2	62.1	65	350	390
400PB-5SA-30L	5	30	24.0	94.0	77.6	65	350	390
400PB-10SA-15N	10	15	12.0	48.1	39.7	100	250	290
400PB-10SA-18N	10	18	14.0	58.1	48.0	100	250	290
400PB-10SA-22N	10	22	17.6	70.1	57.9	100	350	390
400PB-10SA-24N	10	24	19.2	77.0	63.6	100	350	390
400PB-10SA-30N	10	30	24.0	97.0	80.1	100	350	390
400PB-10SA-36N	10	36	28.8	115.9	95.7	100	350	390
400PB-10SA-45N	10	45	36.0	144.1	119.0	100	450	490


Zero
maintenance

800SA

INTERFACE C
SURGE ARRESTER

Up to 42 kV



Design

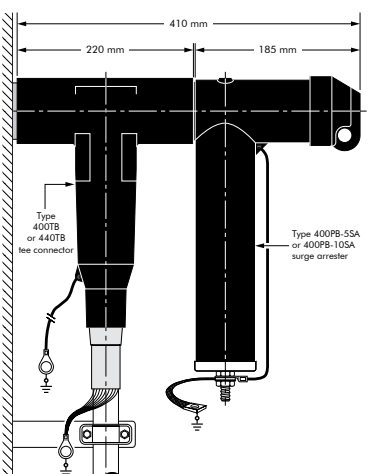
1. Interface designed to fit the tee connector 484TB.
2. Conductive EPDM insert.
3. Conductive EPDM jacket.
4. Insulating EPDM layer moulded between the insert and the jacket.
5. Receptacle for contact rod.
6. Metal oxide valve elements.
7. Steel cap.
8. Earth connection.
9. Earth lead.

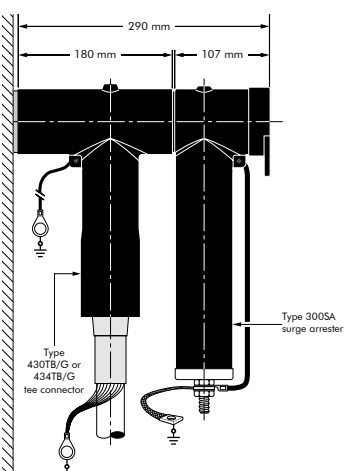
Surge arrester type	Nominal discharge current In (kA)	Rated voltage Ur (kV)	Max. continuous operating voltage Uc (kV)	Steep current residual voltage @ 5 kA [1/20 μs] (kV)	Lightning current residual voltage @ 5 kA [8/20 μs] (kV)	High current impulse withstand (kA)	Dimensions (mm)	
							L1	L2
800SA-10-15N	10	15	12.0	48.1	39.7	100	230	270
800SA-10-18N	10	18	14.0	58.1	48.0	100	230	270
800SA-10-22N	10	22	17.6	70.1	57.9	100	230	270
800SA-10-24N	10	24	19.2	77.0	63.6	100	320	360
800SA-10-30N	10	30	24.0	97.0	80.1	100	320	360
800SA-10-36N	10	36	28.8	115.9	95.7	100	320	360
800SA-10-45N	10	45	36.0	144.1	119.0	100	430	470

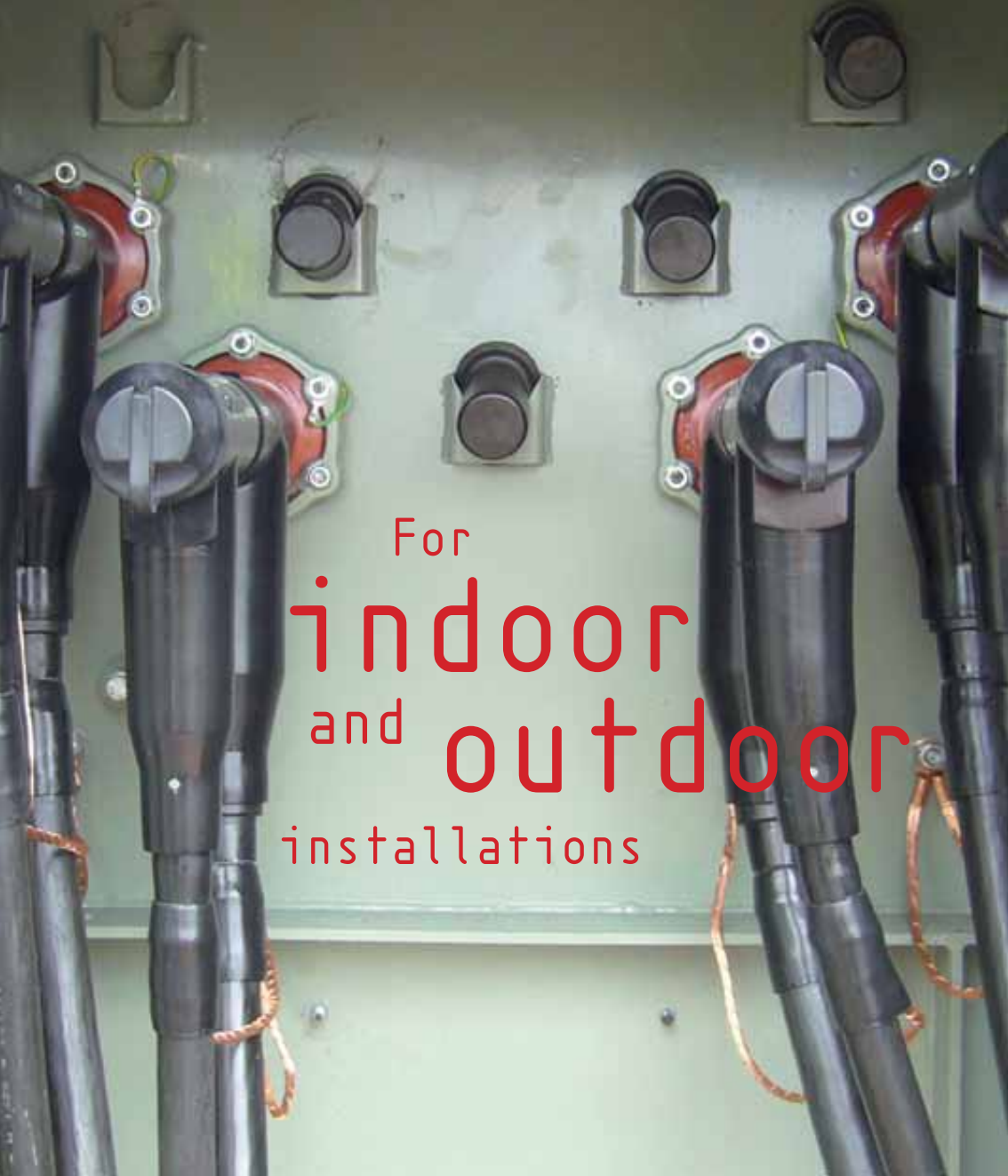
Stable U-I characteristics even after multiple strikes

A complete range for 12 up to 36 kV

Typical application and dimensions






For
indoor
and outdoor
installations

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.




Euromold
a Nexans company
Medium voltage separable connectors and bushings - interface A -
Catalogue 2006

Euromold
a Nexans company
Medium voltage separable connectors and bushings - interface B -
Catalogue 2006

Euromold
Compact

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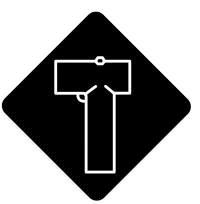
Nexans
GPH

Nexans
GPH


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