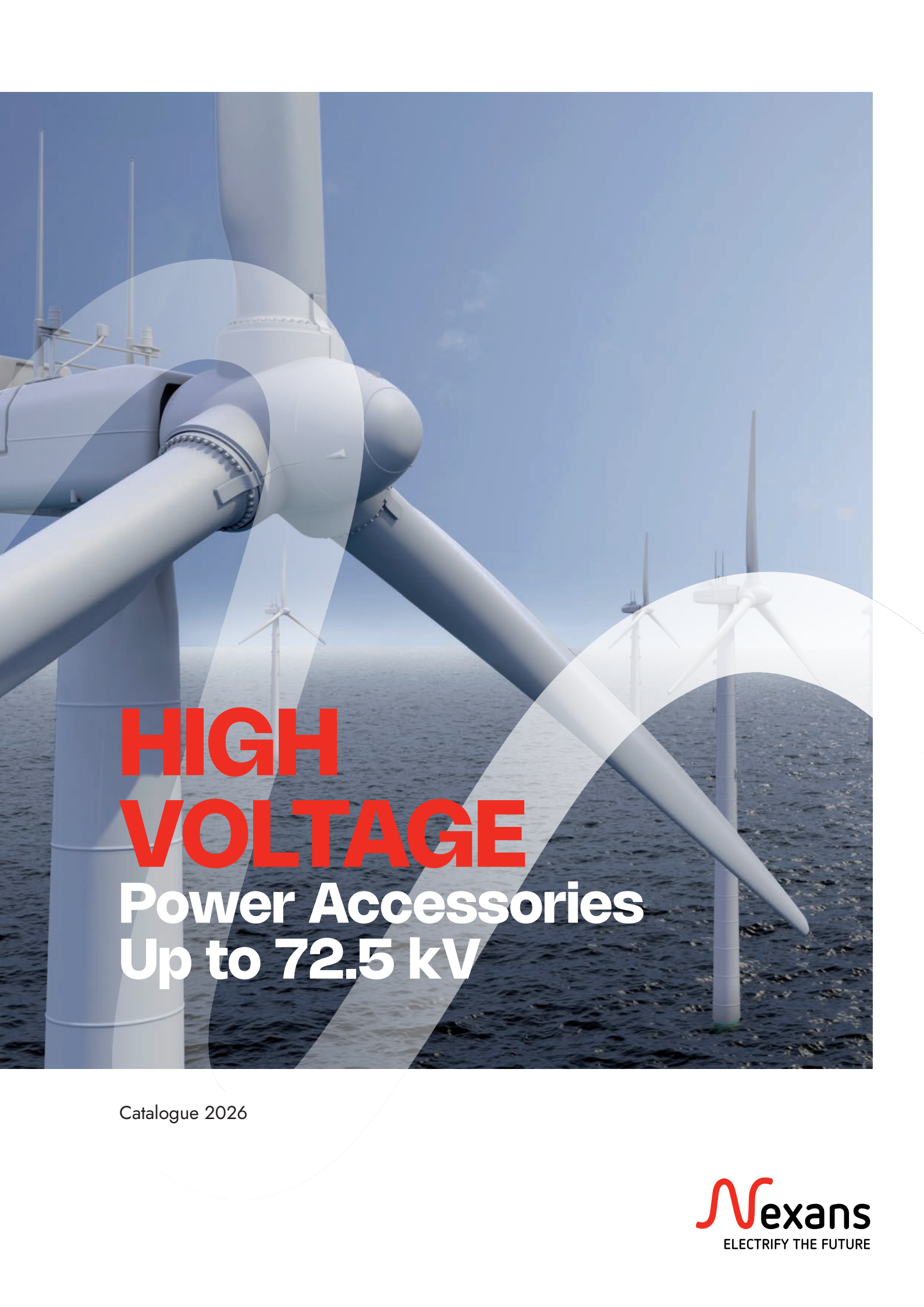




HIGH VOLTAGE

Power Accessories Up to 72.5 kV

Catalogue 2026

NEXANS

POWER ACCESSORIES

An essential link in energy systems

The future will be electric. The present already is. As electrification gathers paces, network operators are undertaking large-scale projects to extend and modernize the grids. These projects require a wide range of power accessories. Nexans is a leading manufacturer and distributor in this field since more than 60 years, supplying a full range of power accessories to our global customers in about 100 countries.

We connect all types of cables, for High and Medium Voltage installations, and all types of conductors with any cross-section. We provide underground cable junctions, and connect cables to various types of equipment, including transformers and switchgear.

Our products are used on both onshore and offshore networks, on wind and solar farms, or in data centers for example.

Our range of products includes EUROMOLD® connectors, our cutting-edge EPDM technology, known for its exceptional performance and reliability. We also provide Cold- and Heat-Shrinkable joints and terminations, developed to be always easier to install and reliable. We pre-assemble ready to install jumpers. And our extensive range of GPH® ferrules and lugs, designed to meet the highest standards of quality and durability, are embodied in all our accessories kits or delivered separately.

Nexans is committed to delivering innovative solutions and top-notch products in the field of electrical connections and accessories.

Together, we have the power to electrify the future!

Standards matter

Our Low High Voltage accessories meet the requirements of the following standards: EN 50673, EN 60099-4, IEC 60840, IEC 60068, IEC 60099-4, IEC 60137, IEC 61238-1, etc.

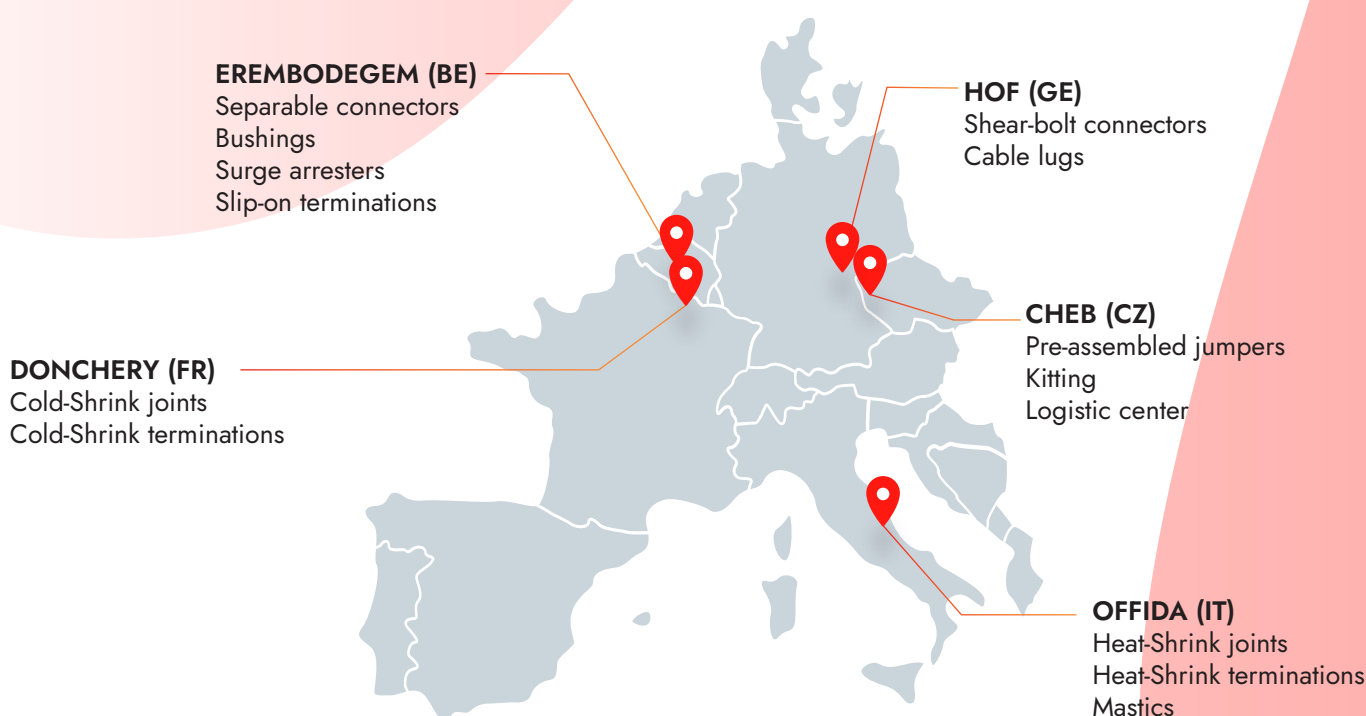
ISO Certificate

Since 1992, Nexans commitment to quality is demonstrated by its ISO 9001 certification.

Nexans Low High Voltage accessories are also certified DIN EN ISO 14001:2015, DIN EN ISO 50001:2015, OHRIS.



At Nexans, we are proud of our manufacturing and kitting sites



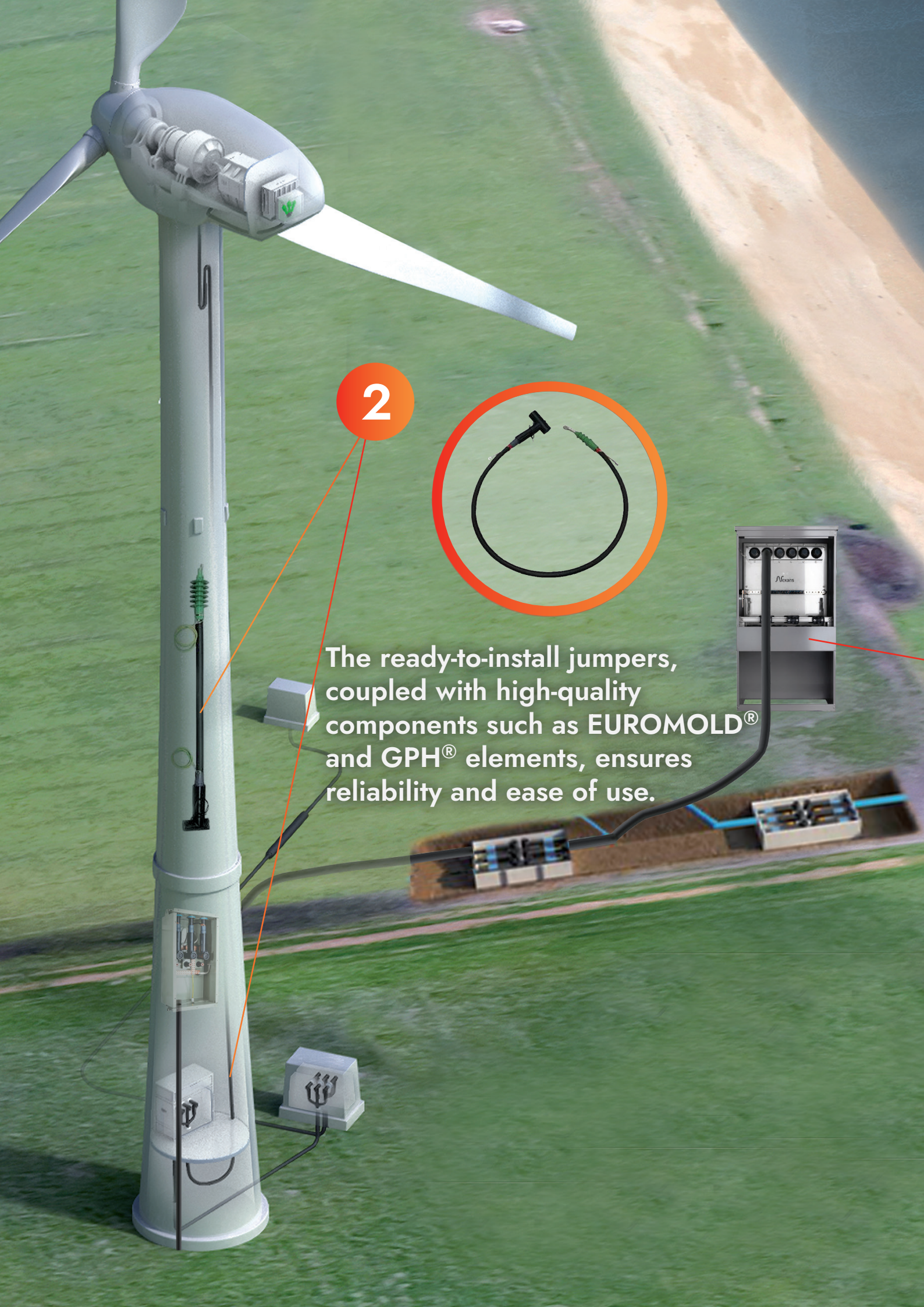
HIGH VOLTAGE POWER ACCESSORIES



- EUROMOLD® and GPH® expertises
- Produced in **Europe**
- 100% routine tested
- Only high-quality material is used
- For both onshore and offshore wind turbines
- A complete range (**up to 72 kV**)

- Made to face the **harshest conditions**
- A range of accessories **designed for 72 kV** : separable connectors, terminations, junctions solutions and pre-assembled cables.
- Offers many **test options**: capacitive test point, cable tests ...





2

The ready-to-install jumpers, coupled with high-quality components such as EUROMOLD® and GPH® elements, ensures reliability and ease of use.

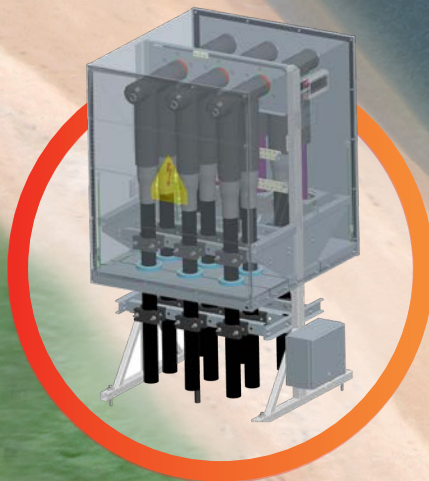


3



EUROMOLD® separable connectors are made with high-quality EPDM rubber. Each product is individually tested to ensure long-lasting quality. It connects the transformer,

1



Nexans wind junction solutions designed to face the harshest conditions, ensuring a reliable network.

NEXANS SERVICES

Certified trainings

Cable work requires knowledge and experience to stay safe and ensure a reliable network. As a global leader in advanced cabling and connectivity solutions, Nexans is electrifying the future through an extensive range of best-in-class

products and innovative services.

Well-trained installers helps reducing installation error risks and save time. Nexans offers theoretical and practical training sessions for the installation of accessories on Low, Medium and High

Voltage cables in its training centres or on the customer's site.

Certification is the final step offered at the end of any training course.

Contact us to find out more about Nexans certified

Program up to 72.5 kV

All our different trainings modules consist of 3 distinct parts:

THEORETICAL TRAINING

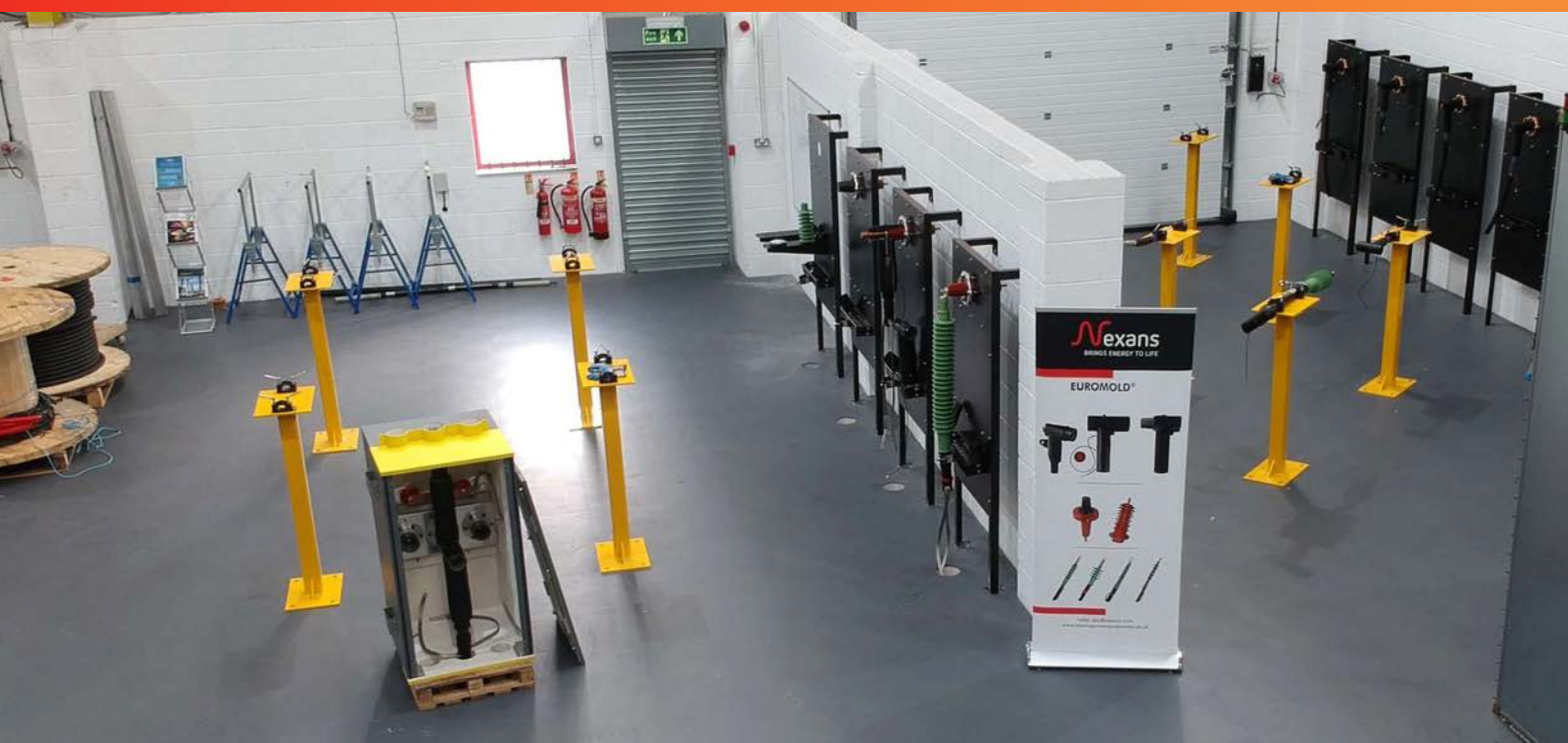
To explain the why and how of the function of each component of the accessory.

EXAMINATION

To verify objectively the workmanship of the trainee.

PRACTICAL TRAINING

To instruct how to prepare your cable and install the accessory correctly.



POWER ACCESSORIES 72 kV

INTERFACE F

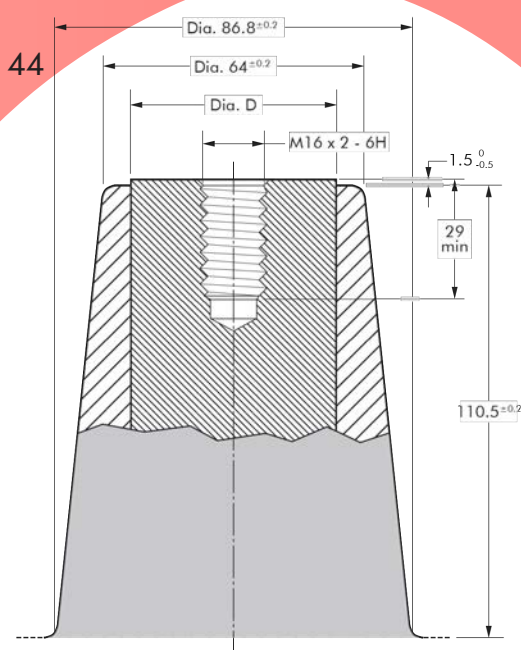
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INTERFACE F4 & F5

Dimensions according to European CENELEC EN 50673 (in mm).

Interface type	Voltage U_m (kV)	Current I_r (A)	Dia. D (mm)
F4	72.5	630	min. 22
F5	72.5	1250	32



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.



POWER ACCESSORIES

Connectors

Equipment Bushings

Terminations

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AFN72 - Slip-on termination	
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Conductor connectors	
Slip-on tools	27

R909TB/G

APPLICATION

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

DESIGN

1. Conductive EPDM insert
2. Conductive EPDM jacket
3. Insulating EPDM layer moulded between insert and jacket
4. Type F interface ref. CENELEC EN 50673
5. Conductor connector (bolted type)
6. Basic insulating plug
7. Cable adapter
8. Conductive EPDM cap
9. Clamping screw with washer and nut
10. Earthing lead with cable lug for M12
11. Heat-shrinkable sleeve

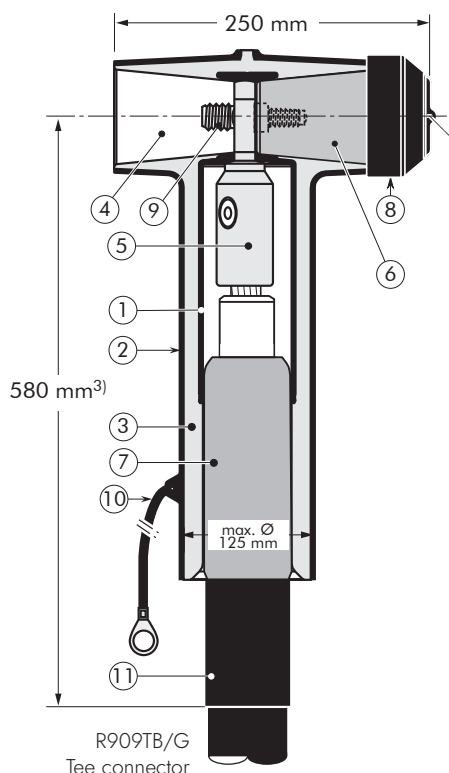
SPECIFICATIONS AND STANDARDS

The R909TB/G separable tee connector is type tested acc. to IEC 60840 and classified by DNV-GL. Environmental testing acc. to IEC 60068 (solar radiation acc. to IEC 60068-2-5, salt mist/spray acc. to IEC 60068-2-25) and tested like IP68.

TECHNICAL CHARACTERISTICS

Thick and robust conductive EPDM jacket. Each separable connector is tested for AC withstand and partial discharge prior to leaving the factory.

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



TEE CONNECTOR INTERFACE F



U (U_m)
60-69 (72.5) kV
Up to 72.5 kV
1250 A

EUROMOLD

Separable connector type	Max. operating voltage U _m (kV)	Continuous current I _n (A)	Conductor cross-section ²⁾ (mm ²)	
			min.	max.
R909TB/G	72.5	1250 ¹⁾	95	1200

¹⁾ When installed on appropriate equipment bushing.

²⁾ Indicative for cables with 10 mm insulation wall thickness.

³⁾ Installation length depending on the cable type used.

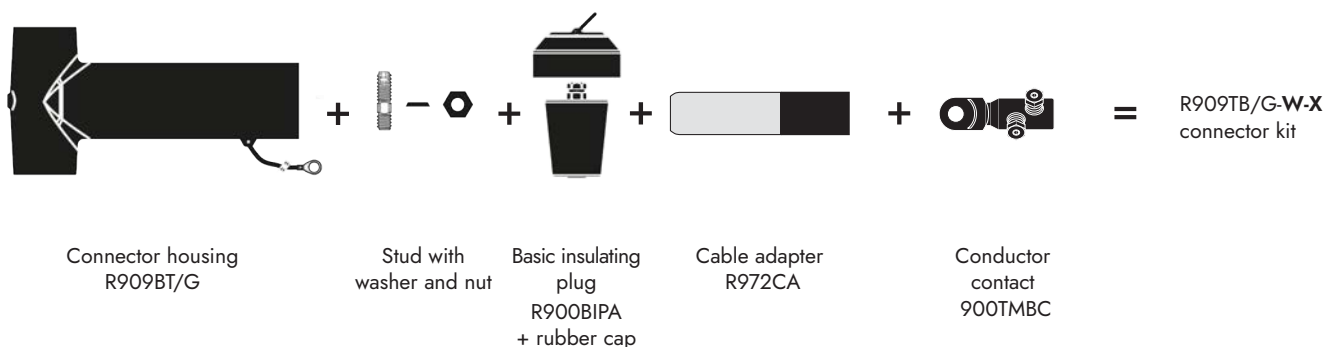
For detailed electrical ratings please see page 44.

KIT CONTENTS

The complete R909TB/G tee connector kit comprises 1 x the following components:

The kit also comprises:

installation instructions, silicone grease, sealing mastic, gloves, roll adhesive tape, heat-shrinkable sleeve



ORDERING INSTRUCTIONS

To order the tee connector, select the ordering part number which gives you the best centering of your core insulation diameter and substitute X using *Table X*, according to your conductor size and type.

Order example:

The copper wire screened cable is 72.5 kV , 800 mm² round stranded aluminum with a diameter over XLPE core insulation of 58 mm after cable preparation and 50 mm² copper wire screen.

Order:

R909TB/G-50-800.1000-14-5+ SWL16-95x12 tee connector kit.
For screen wire cable lug, please see page 25

Table W

Ordering part number	Ø over core insulation ³⁾ (mm)	
	min.	max.
R909TB/G-25-X	27.0	33.5
R909TB/G-30-X	32.5	41.0
R909TB/G-37-X	40.0	48.0
R909TB/G-43-X	46.5	51.0
R909TB/G-46-X	49.5	55.0
R909TB/G-50-X	54.0	59.0
R909TB/G-53-X	57.0	64.0
R909TB/G-58-X	62.5	68.0

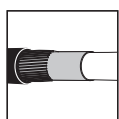
³⁾ after cable preparation

Table X

Conductor cross-section (mm ²)	Aluminium and Copper conductor (RMV)	
	bolted	
95	95.240-14-5	
120		
150		
185		185.400-14-5
240		
300		
400	400.630-14-5	
500		
630		
800		800.1000-14-5
1000		
1200		
	1200-14-5 ⁴⁾	

RMV: round stranded compacted conductors

⁴⁾ For Aluminium conductors only.



Several earthing kits for different cable designs are available.



For use on vessels classed by DNV
Add -DNV to part number



For use with other cable types please contact our representative.



Components can be ordered individually.



When installed on appropriate equipment bushing: 1250 A continuously.

R909PB/G

APPLICATION

Separable coupling connector (bolted type) for dual cable arrangement. It has been designed to be used with R909TB/G separable tee connector. The arrangement might be extended by multiple coupling connectors.

DESIGN

1. Interface designed to fit R909TB/G tee connector
2. Bus for R909PB/G (contact rod and stud)
3. Conductor connector (bolted type)
4. Conductive EPDM insert
5. Conductive EPDM jacket
6. Insulating EPDM layer moulded between the insert and the jacket
7. Cable adapter
8. Conductive EPDM cap
9. Basic insulating plug
10. Earthing lead

SPECIFICATIONS AND STANDARDS

The R909PB/G separable coupling connector is type tested acc. to IEC 60840 and classified by DNV-GL. Environmental testing acc. to IEC 60068 (solar radiation acc. to IEC 60068-2-5, salt mist/spray acc. to IEC 60068-2-25) and tested like IP68.

TECHNICAL CHARACTERISTICS

Thick and robust conductive EPDM jacket. Each separable connector is tested for AC withstand and partial discharge prior to leaving the factory.

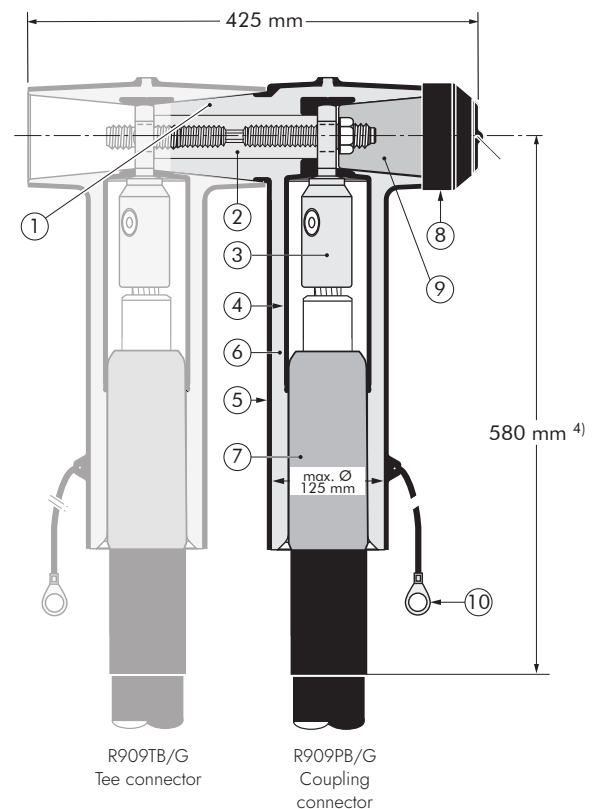
The screen break design enables cable outer sheath testing without removing or dismantling the connector.

EUROMOLD

COUPLING CONNECTOR FOR R909TB/G



U (U_m)
60-69 (72.5) kV
Up to 72.5 kV
1250 A, 1800A



Separable connector type	Max. operating voltage U _m (kV)	Continuous current I _n (A)	Conductor cross-section ³⁾ (mm ²)	
			min.	max.
R909PB/G	72.5	1250 ¹⁾ /1800 ²⁾	95	1200

¹⁾ When installed on appropriate equipment bushing.

²⁾ Daisy chain arrangement.

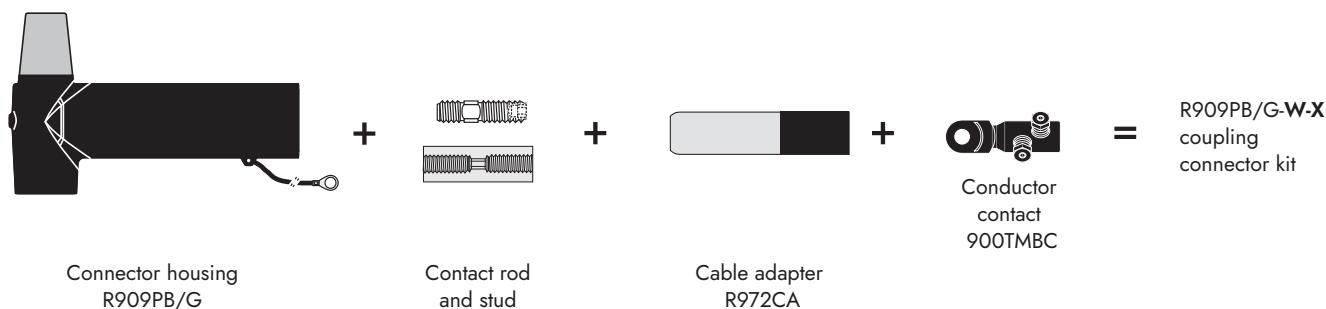
³⁾ Indicative for cables with 10 mm insulation wall thickness.

⁴⁾ Installation length depending on the cable type used.

For detailed electrical ratings please see page 44.

KIT CONTENTS

The complete R909PB/G coupling connector kit comprises 1 x the following components:



ORDERING INSTRUCTIONS

To order the coupling connector, select the ordering part number which gives you the best centering of your core insulation diameter and substitute *X* using *Table X*, according to your conductor size and type.

Order example:

The copper wire screened cable is 72.5 kV, 800 mm² round stranded aluminum with a diameter over XLPE core insulation of 58 mm after cable preparation and 50 mm² copper wire screen.

Order:

R909PB/G-50-800.1000-14-5+ SWL16-95x12 coupling connector kit. For screen wire cable lug, please see page 25.

Table W

Ordering part number	Ø over core insulation ⁴⁾ (mm)	
	min.	max.
R909PB/G-25-X	27.0	33.5
R909PB/G-30-X	32.5	41.0
R909PB/G-37-X	40.0	48.0
R909PB/G-43-X	46.5	51.0
R909PB/G-46-X	49.5	55.0
R909PB/G-50-X	54.0	59.0
R909PB/G-53-X	57.0	64.0
R909PB/G-58-X	62.5	68.0

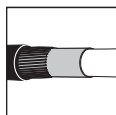
⁴⁾ after cable preparation

Table X

Table 11		
Conductor cross-section (mm ²)	Aluminium and Copper conductor (RMV)	
	bolted	
95	95.240-14-5	185.400-14-5
120		
150		
185		
240		185.400-14-5
300		
400		
500	400.630-14-5	
630		
800		800.1000-14-5
1000		
1200		
	1200-14-5	

RMV: round stranded compacted conductors

⁵⁾ For Aluminium conductors only.



Several earthing kits for different cable designs are available.



For use on vessels classed by DNV Add -DNV to part number



For use with other cable types please contact our representative.



Components can be ordered individually.



When installed on appropriate equipment bushing: 1250 A continuously.



When in a daisy chain arrangement or similar: 1800 A continuously.

900SA-CD

APPLICATION

Surge arrester designed to protect 72.5 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 type in an elbow configuration. Each separable surge arrester is tested for AC withstand and partial discharge prior to leaving the factory.

SURGE ARRESTER INTERFACE F



DESIGN

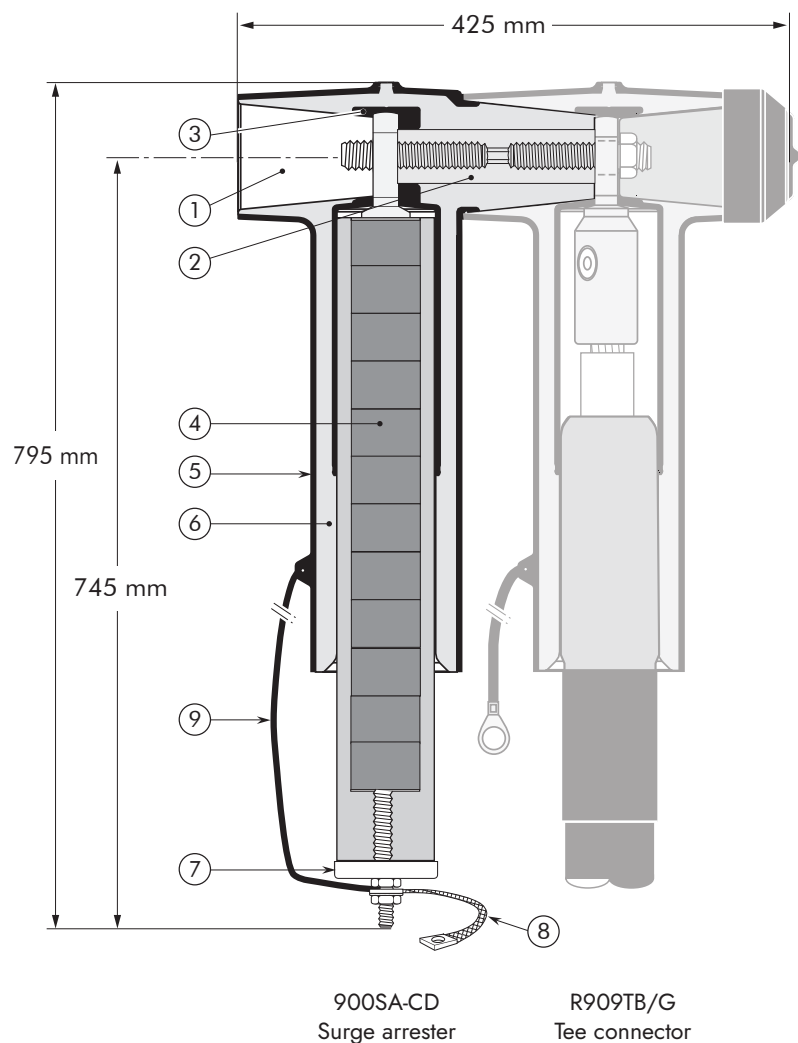
1. Type F interface ref. CENELEC EN 50673
2. Bus for 909PB/G (contact rod and stud)
3. Conductive EPDM insert
4. Metal oxide valve elements
5. Conductive EPDM jacket
6. Insulating EPDM layer moulded between the insert and the jacket
7. Steel cap
8. Earthing connection
9. Earthing lead with cable lug for M12

For use with the R909TB/G separable tee connectors. The 900SA-CD surge arrester meets the test requirements of IEC 60099-4 and EN 60099-4 and is classified by DNV-GL.

Note:

The standard installation position of the surge arrester body is vertically. For horizontal installations contact our Technical Customer Service.

U (U_m)
96 kV



Surge arrester type	Nominal discharge current I_n (kA)	Rated voltage U_r (kV)	Max. continuous operating voltage ¹⁾ U_c (kV)	Rated short-circuit current I_{sc} (kA, 0.2s)
900SA-10-54-CD20	10	54	43.2	20
900SA-10-60-CD20	10	60	48.0	20
900SA-10-66-CD20	10	66	52.8	20
900SA-10-72.5-CD20	10	72.5	58.0	20
900SA-10-74-CD20	10	74	59.2	20
900SA-10-54-CD31.5	10	54	43.2	31.5
900SA-10-60-CD31.5	10	60	48.0	31.5
900SA-10-66-CD31.5	10	66	52.8	31.5
900SA-10-72.5-CD31.5	10	72.5	58.0	31.5
900SA-10-74-CD31.5	10	74	59.2	31.5

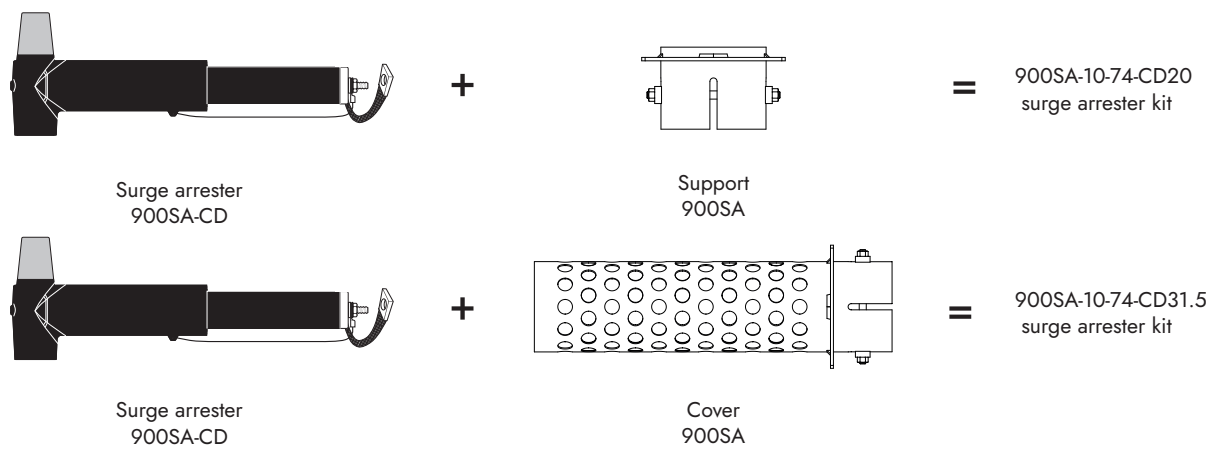
¹⁾ Other voltages on request.

For detailed electrical ratings please see page 44.

KIT CONTENTS

The complete 900SA-CD surge arrester kit comprises 1x the following components:

The kit also comprises:
installation instructions, silicone grease and nylon vent rod, gloves and wiper, contact rod and stud



ORDERING INSTRUCTIONS

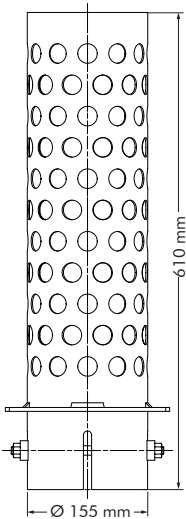
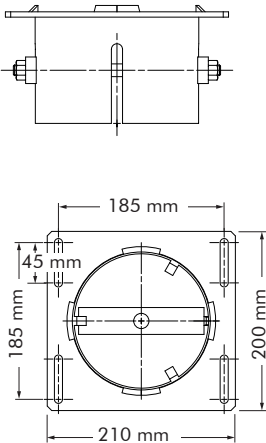
For rated short-circuit current 31.5 kA, 0.2s order the surge arrester kit 900SA-10-74-CD31.5.

Support 900SA
To support the weight of the surge arrester.

Cover 900SA
To support the weight of the surge arrester and to obtain an increased short circuit level up to 31.5 kA



For use on vessels
classed by DNV
Add -DNV to part
number



APPLICATION

The separable bushing extender R900BE/G provides an extension piece to allow cables to stand away from equipment, e.g. transformers, switchgears. It is used in conjunction with R909PB/G, supplied with an earthing lead.

TECHNICAL CHARACTERISTICS

Thick and robust conductive EPDM jacket. Each bushing extender is tested for AC withstand and partial discharge prior to leaving the factory.

DESIGN

1. Conductive EPDM insert
2. Conductive EPDM jacket
3. Insulating EPDM layer moulded between insert and jacket
4. Type F interface ref. CENELEC EN 50673
5. Earthing lead with cable lug for M12

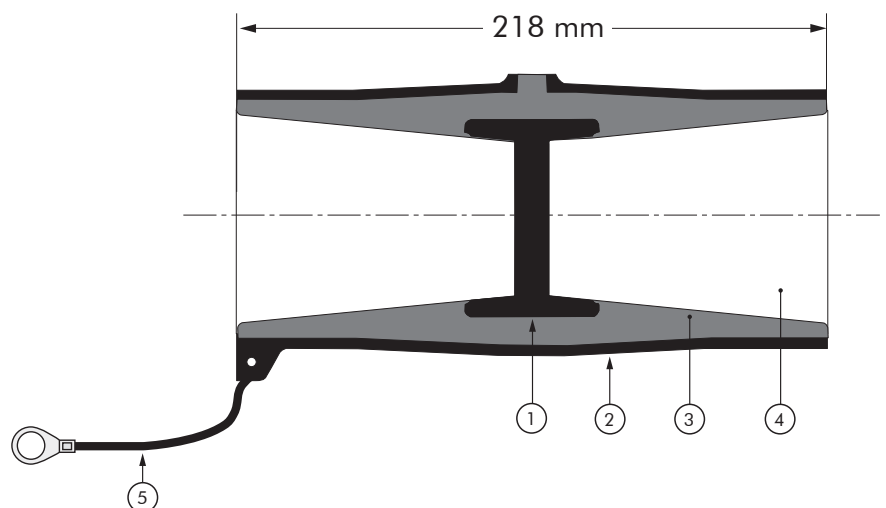
SPECIFICATIONS AND STANDARDS

The R900BE/G bushing extender is type tested acc. to IEC 60840. Environmental testing acc. to IEC 60068 (solar radiation acc. to IEC 60068-2-5, salt mist/spray acc. to IEC 60068-2-25).

U (U_m)
60-69 (72.5) kV
1250 A

For use with EUROMOLD® connectors, bushings and connecting plugs with interface F as described by CENELEC EN 50673.

Order:
R900BE/G for 72.5 kV



¹⁾ When installed on appropriate equipment bushing.

APPLICATION

Fits over a bushing with a type F interface to provide dead-end facility. The dead-end receptacle R900DR-B/G is supplied with an earth lead.

TECHNICAL CHARACTERISTICS

Each dead-end receptacle is tested for AC withstand and partial discharge prior to leaving the factory.

DESIGN

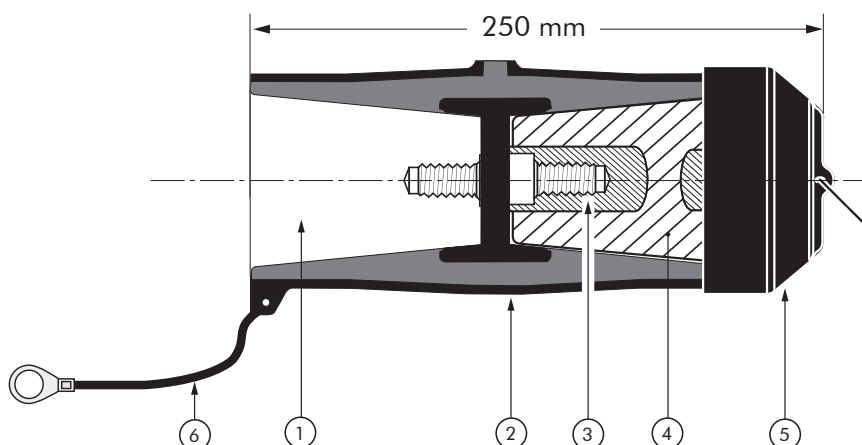
1. Type F interface ref. CENELEC EN 50673
2. Conductive outer EPDM jacket
3. Clamping screw with washer and nut
4. Basic insulating plug R900BIPA
5. Conductive EPDM cap
6. Earthing lead with cable lug for M12

SPECIFICATIONS AND STANDARDS

The R900DR-B/G dead-end receptacle is type tested acc. to IEC 60840. Environmental testing acc. to IEC 60068 (solar radiation acc. to IEC 60068-2-5, salt mist/spray acc. to IEC 60068-2-25).

$U (U_m)$
60-69 (72.5) kV

Order:
R900DR-B/G.

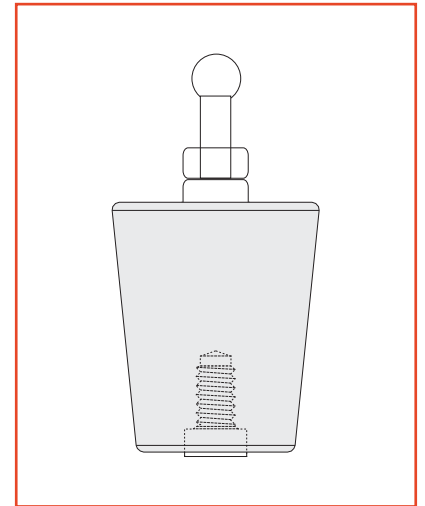


900GP-SBT

GROUNDING PLUG INTERFACE F

APPLICATION

The grounding plug 900GP-SBT is designed to support an earth connection to a cable conductor and is used with EUROMOLD® interface F connectors.



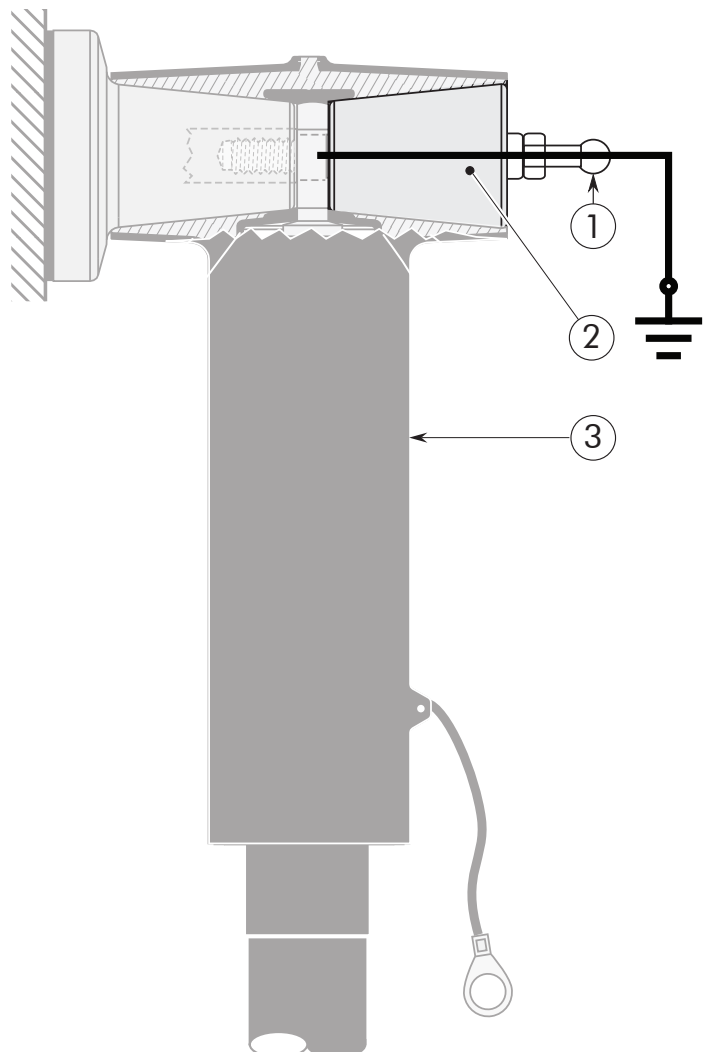
DESIGN

1. Ball terminal Ø 20 mm or Ø 25 mm
2. Grounding plug 900GP-SBT replacing Basic insulating plug 900BIPA
3. Separable connector 909TB/G or Coupling connector R909PB/G

Order:

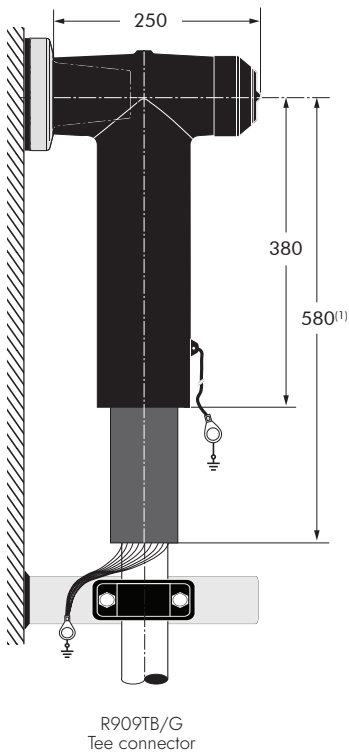
900GP-SBT20 plug with ball-pin Ø 20 mm, order number 88505
900GP-SBT25 plug with ball-pin Ø 25 mm, order number 703374

U (U_m)
60-69 (72.5) kV

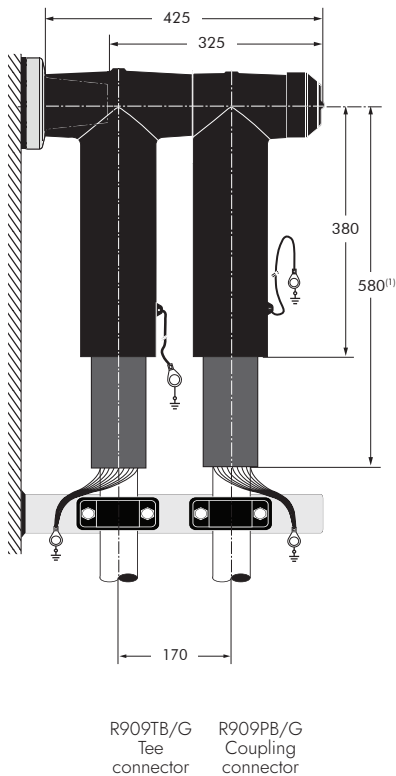


POSSIBLE ARRANGEMENTS
INTERFACE F

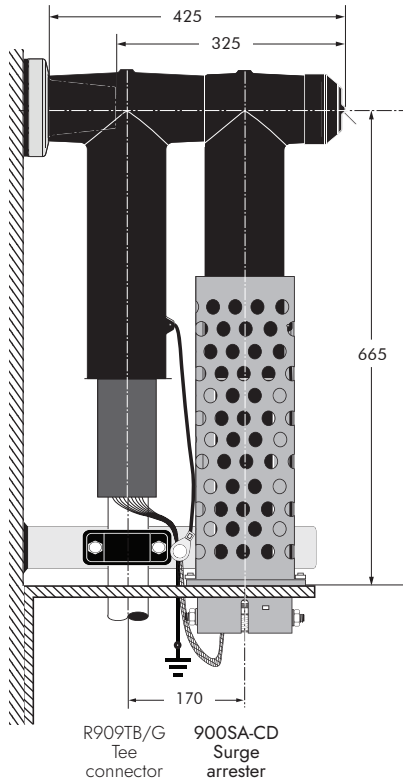
R909TB/G
Single cable arrangement



R909TB/G + R909PB/G
Dual cable arrangement

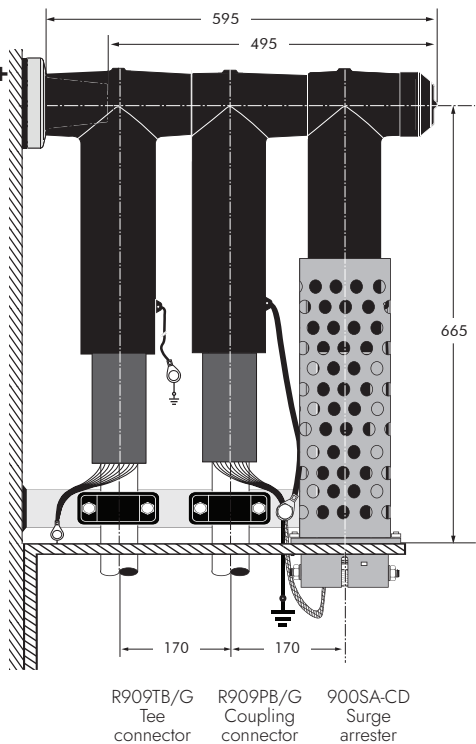


R909TB/G +
900SA-10-X-CD31.5
Single cable arrangement
with surge arrester



¹⁾ Installation length depending on the cable type used

R909TB/G + R909PB/G +
900SA-10-X-CD31.5
Dual cable arrangement
with surge arrester



R900AR-8-L / -12

APPLICATION

Moulded epoxy insulated bushings for use in equipment, typically for transformers or other liquid filled installations. For GIS bushings, please contact our technical support.

TECHNICAL CHARACTERISTICS

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

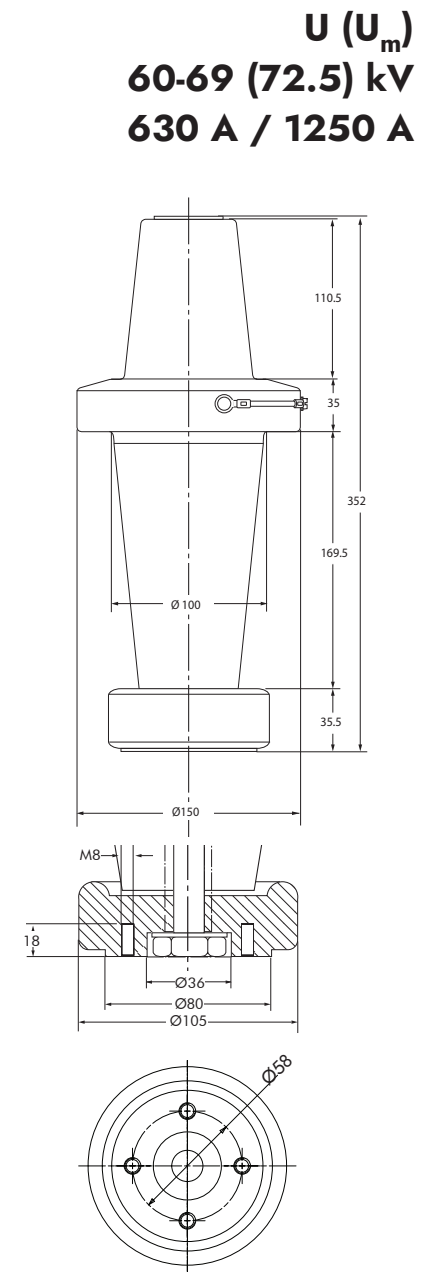
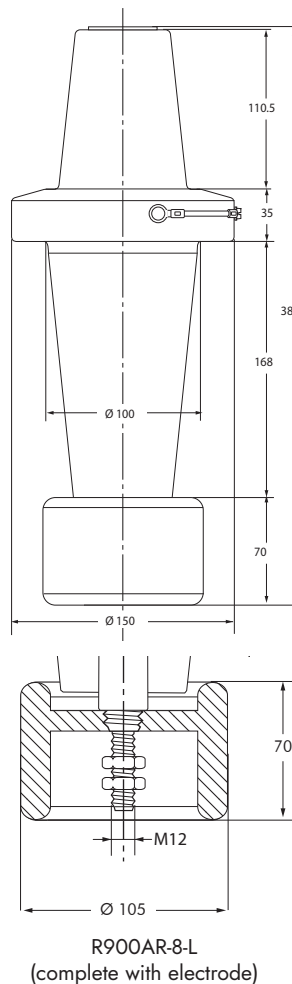
EQUIPMENT BUSHING INTERFACE F



SPECIFICATIONS AND STANDARDS

The bolted type equipment bushings R900AR-X/J are moulded epoxy insulated parts with type F interface acc. to CENELEC EN 50673.

The bushing R900AR-X/J is type tested acc. to IEC 60840 and IEC 60137.



Equipment bushing type	Interface type	Max. operating voltage U_m (kV)	Current I_r (A)
R900AR-8-L/J	F4	72.5	630
R900AR-12/J	F5	72.5	1250

For detailed electrical ratings please see page 44.

FIXINGS FOR EQUIPMENT BUSHINGS

BUSHING CLAMPING KIT (FN)

(deviating in design from EN 50673) made of marine grade stainless steel type 316, please specify KBC NFC.

KIT CONTENTS

The KBC NFC bushing clamping kit comprises the following components:

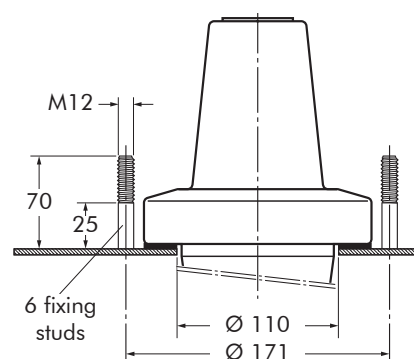
- 6 claw clamps
- 1 sealing gasket

To order the bushing clamping kit with DIN type fixing flange, simply specify KBCDS-400.

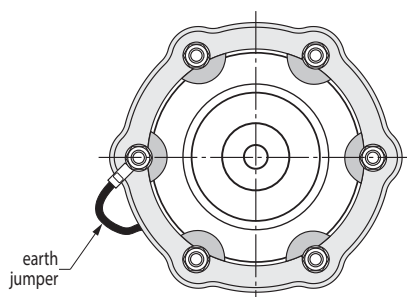
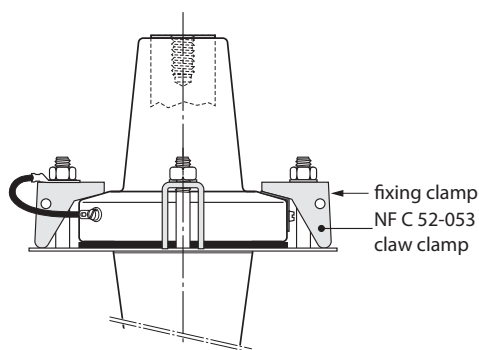
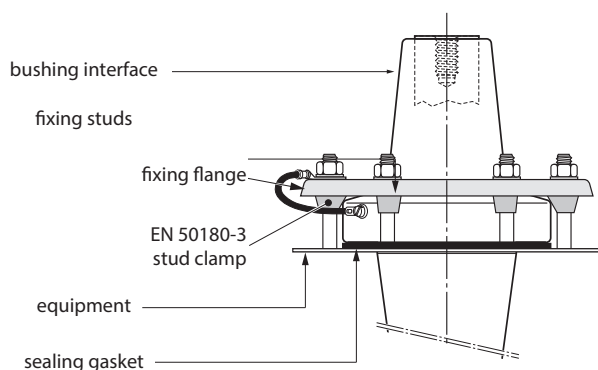
The KBCDS-400 bushing clamping kit comprises the following components:

- 1 fixing flange DIN type
- 6 clamp studs
- 1 sealing gasket

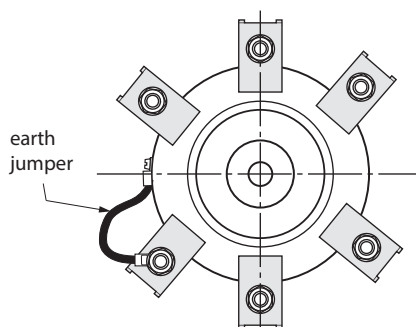
FIXING DIMENSIONS



R900AR-X/J BUSHING



Bushing clamping kit KBCDS-400



Bushing clamping kit KBC NFC

APPLICATION

Dry type, non size sensitive terminations for use indoors, outdoors and exposed to prolonged sunshine and other weather conditions. To connect polymeric insulated cable to equipment and for the outdoor terminating onto overhead lines or bus bars.

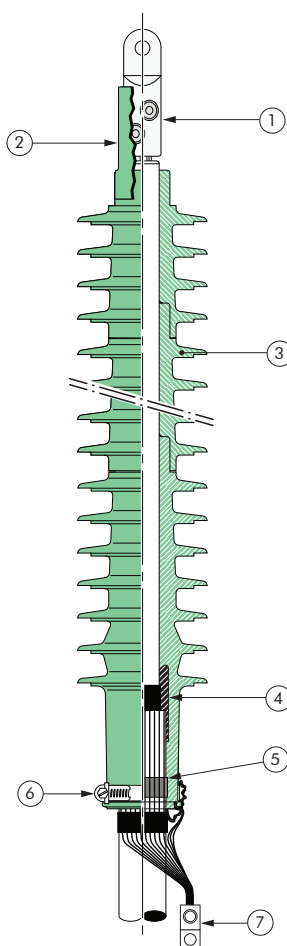
TECHNICAL CHARACTERISTICS

Its compact and modular design supports the suitability for different pollution class d or e. All termination housings are tested for AC withstand and partial discharge prior to leaving the

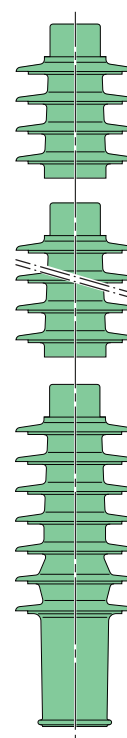


DESIGN

1. Longitudinally sealed mechanical cable lug (connecting stalk or compression cable lugs available on request)
2. Water sealing cover
3. Silicone shed modules providing different pollution levels
4. Silicone housing with sheds and integrated conductive silicone rubber insert providing stress relief for the cable
5. Water sealing mastic
6. Earthing clamp
7. Earthing lug



U (U_m)
60-69 (72.5) kV



SPECIFICATIONS AND STANDARDS

The AFN72 slip-on termination is type tested acc. to IEC 60840, and meets the requirements of IEC/TS 60815-3; SPS class d and e. According to IEC 60112: CTI > 600

Termination type	Max. operating voltage U _m (kV)	Ø over core insulation ²⁾ (mm)		Conductor cross-section ¹⁾ (mm ²)	
		min.	max.	min.	max.
AFN72	72.5	31.5	82.0	95	2000

¹⁾ Indicative for cables with 10 mm insulation wall thickness.

²⁾ After cable preparation.

For detailed electrical ratings please see page 45

KIT CONTENTS

The AFN72 slip-on termination kit comprises the following components:

- 1 termination housing
- modules with sheds
- conductor cable lug
- screen wire cable lug
- water sealing sleeve
- The kit also comprises:
- special lubricant, wiper, earthing clamp, water sealing mastic, adhesive tape, installation instructions

ORDERING INSTRUCTIONS

To order the termination, select the ordering part number which gives you the best centering of your core insulation diameter. Substitute X using the appropriate mechanical cable lug or connecting stalk according to your conductor type and add the screen wire cable lug.

Order:
AFN72-6-D
+ C400-630x16
+ SWL16-95x12

For conductor cable lug, connecting stalk and screen wire cable lug, please see page 25.

Order example:

One outdoor termination for a 72.5 kV - 630 mm² stranded aluminum cable with 50 mm² copper wire screen to be used in pollution class environment d. The diameter over core insulation is 54 mm.

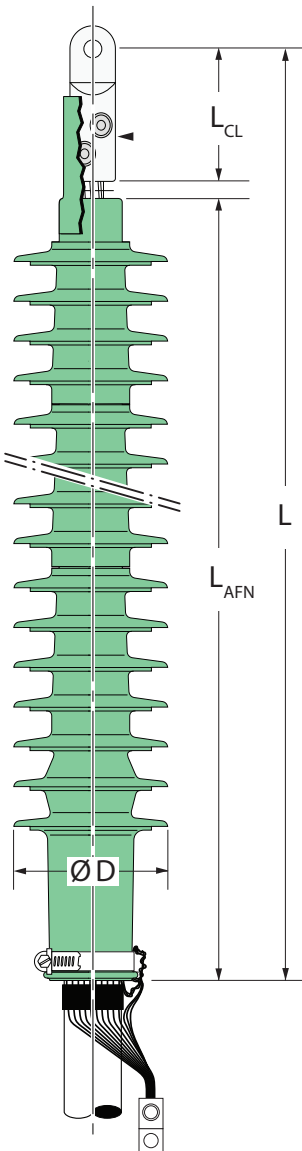


Table 1 - Classification and dimensions

Ordering part number termination	Ø over core insulation ²⁾ (mm)		Ø D (mm)	Length L _{AFN} (mm)	Creepage distance (mm)	Site pollution survey (SPS)
	min.	max.				
AFN72-4-D-X	31.5	41.0	127	915	1975	d (Heavy)
AFN72-4-E-X	31.5	41.0	127	1040	2300	e (Very heavy)
AFN72-5-D-X	39.0	47.0	127	915	1975	d (Heavy)
AFN72-5-E-X	39.0	47.0	127	1040	2300	e (Very heavy)
AFN72-6-D-X	46.0	55.0	127	915	1975	d (Heavy)
AFN72-6-E-X	46.0	55.0	127	1040	2300	e (Very heavy)
AFN72-7-D-X	53.0	60.0	172	805	1965	d (Heavy)
AFN72-7-E-X	53.0	60.0	172	965	2475	e (Very heavy)
AFN72-8-D-X	59.0	67.0	172	805	1965	d (Heavy)
AFN72-8-E-X	59.0	67.0	172	965	2475	e (Very heavy)
AFN72-9-D-X	66.0	73.0	172	805	1965	d (Heavy)
AFN72-9-E-X	66.0	73.0	172	965	2475	e (Very heavy)
AFN72-10-D-X	72.0	82.0	172	805	1965	d (Heavy)
AFN72-10-E-X	72.0	82.0	172	965	2475	e (Very heavy)

²⁾ after cable preparation
³⁾ acc. to IEC/TS 60815-3

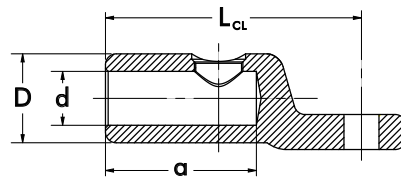
To determine the total termination length:
Total Length L = L_{AFN} + L_{CL} + 10 mm



CONDUCTOR CONNECTORS



CABLE LUG WITH SHEAR-OFF-HEAD BOLTS

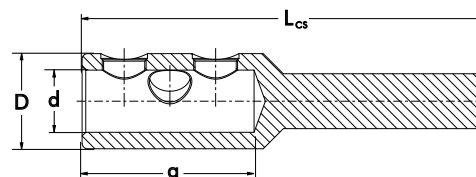


Ordering part number conductor cable lug	Conductor cross-section Aluminium (mm ²)		Conductor cross-section Copper (mm ²)	Length L _{CL}	Dimensions (mm)			Palm hole Ø (mm)
	rm(v)	re	rm(v)		d	D	a	
C95-240 x 16	95-240	95-240	95-240	95	20	33	56	17
C185-400 x 16	185-400	185-400	185-400	120	26	42	82	17
C400-630 x 16	400-630	400-630	400-630	130	34	52	94	17
C630-1000 x 20 ¹⁾	630-1000	630-1000	630-1000	165	41	65	105	21
C800-1200 x 20 ¹⁾	800-1200	630-1200	630-1000	170	45	72	105	21
Other cable lugs on request								

¹⁾ Centric conductor positioning by center insert



MECHANICAL CONNECTING STALK WITH SHEAR-OFF-HEAD BOLTS

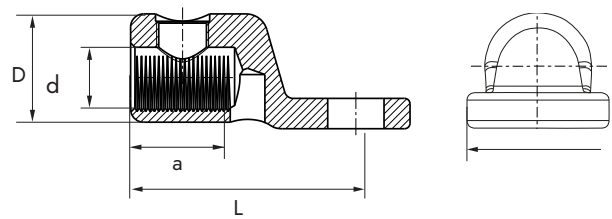


Ordering part number conductor con- necting stalk	Conductor cross-section Aluminium (mm ²)		Conductor cross-section Copper (mm ²)	Length L _{CS}	Dimensions (mm)			Pin Ø (mm)	Pin length (mm)
	rm(v)	re	rm(v)		d	D	a		
C95-240 PIN20/80	95-240	95-240	95-240	145	20	33	56	20	80
C185-400 PIN30/110	185-400	185-400	185-400	200	26	42	82	30	110
C400-630 PIN30/110	400-630	400-630	400-630	220	34	52	94	30	110
C630-1000 PIN40/120 ¹⁾	630-1000	630-1000	630-1000	220	41	65	105	40	120
C800-1200 PIN40/130 ¹⁾	800-1200	800-1200	800-1000	250	45	72	105	40	130
Other connecting stalks on request									

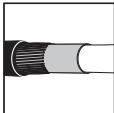
¹⁾ Centric conductor positioning by center insert



MECHANICAL SCREEN WIRE CABLE LUG WITH SHEAR-OFF-HEAD BOLTS



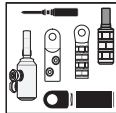
Ordering part number screen wire cable lug	Conductor cross-section (mm ²)	Dimensions (mm)					Palm hole Ø (mm)
		L	D	b	d	a	
SWL 16-95 x 12	16-95	52	25	25	14	24	13
SWL 70-185 x 12	70-185	97	35	35	22	56	13



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



For use with other cable
types please contact
our representative.

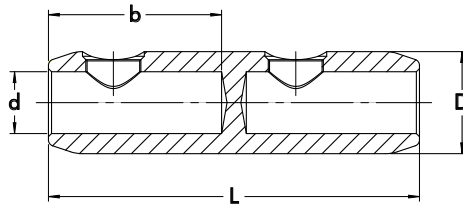


All accessories available
with mechanical or compression
conductor connector.

CONDUCTOR CONNECTORS



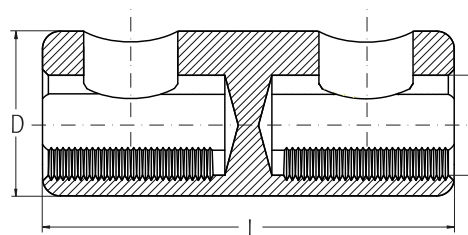
CONNECTOR WITH SHEAR-OFF-HEAD BOLTS



Ordering part number conductor connector	Conductor cross-section Aluminum (mm ²)		Conductor cross-section Copper (mm ²)	Number of bolts	Dimensions (mm)			
	rm(v)	re	rm(v)		L	d	D	b
M120-300	120-300	120-300	120-300	2-2	142	25	38	67
M185-400	185-400	185-400	185-400	3-3	170	26	42	82
M300-500	300-500	300-500	300-500	3-3	200	34	52	94
M400-630	400-630	400-630	400-630	3-3	200	34	52	94
M630-1000 ¹⁾	630-1000	630-1000	630-1000	4-4	220	41	65	105
M800/1000	800/1000	800/1000	800/ -	4-4	220	37/41	60	105
M800-1200 ¹⁾	800-1200	630-1200	630-1000	4-4	220	45	72	105

¹⁾ Centric conductor positioning by center inserts

CONNECTOR WITH SHEAR-OFF-HEAD BOLTS



Ordering part number screen wire connector	Conductor cross-section Copper rm (mm ²)	Number of bolts	Dimensions (mm)		
			L	D	d
D16-95 SV-T-V-K	16-95	1-1	55	25	14.0
D25-150 SV-T-V-K	25-150	1-1	70	28	17.0



SLIP ON TOOL FOR CONNECTORS

Particularly suitable for upside down installations, when cable adapters are used on their outer application area or in case of limited space.

The tool can be used on all XLPE or EPR insulated cables with class 1 (solid) or class 2 (stranded) conductors. For class 5 or class 6 conductors (flexible, very flexible), please contact our Technical Customer Service.

The slip-on tool consists of:

- Cable clamp including screws,
- Nuts
- Washers
- Belt strap
- Belt strap with two tension ratchets



For cable outer diameter 50 mm to 75 mm, please order: „Installation tool for R909TB/PB+K50-75“, or number 16050041.

Item number: 16050041

Other sizes available on request.



SLIP ON TOOL FOR JOINTS

The tool can be used on all XLPE insulated cables with class 1 (solid) or class 2 (stranded) conductors. Depending on the tube dimensions, three different sizes available.

The slip-on tool consists of:

- Slip-on tool to slide the joint body onto the prepared cable core
- Assembly rings for pushing the joint body on parking position and to final position
- Support tube keeps the joint body straight while sliding.



Item numbers:

15000146 (Size 3),

15000147 (Size 4),

16050032 (Size 5)



POWER ACCESSORIES

Ready to installed Pre-assemble cables & joints

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Pre-assembled cables	30
72MSJ - Single core straight joint	32
72MSJ-x-SB - Single core straight joint	34

PRE-ASSEMBLED CABLES

INTERFACE F CONNECTORS AND TERMINATIONS

APPLICATION

Pre-assembled cables are Ethylene-propylene rubber (EPR) insulated high voltage cables, equipped with connectors and terminations. They can be used for connecting transformers and switchgears. We manufacture the pre-assembled cables specifically customized in terms of cable length and type of accessories. The flexible cables, primarily checked by us, are assembled with different conductor cross-sections and accessories, depending on customer's application.

DIMENSIONING BASIS

When dimensioning the preassembled cable length, we take the center points of both cable accessories as the basis.

When indicating the length of the screen wire, please also specify whether the screen wire should be lead out on one or both sides.



U (U_m)
60-69 (72.5) kV

TEST LEADS

Test leads are required for development, testing or commissioning of devices or already installed cables. These special cables are assembled individually and follow a basic configuration.

Test leads are manufactured to the highest standard and tested with procedures that exceed the requirements for cables, accessories, switchgears or transformers.

For detailed electrical ratings please see page 45.

- We use high-flexible EPR-insulated cable with 95 mm² class 5 Cu conductor.
- The cables are equipped with Tee connectors R909TB/G, coupling connector R909PB/G or termination AFN72.
- The standard cable lengths are between 2.5 m and 10 m.

Accessory A

See table for accessory selection.

R909TB/G

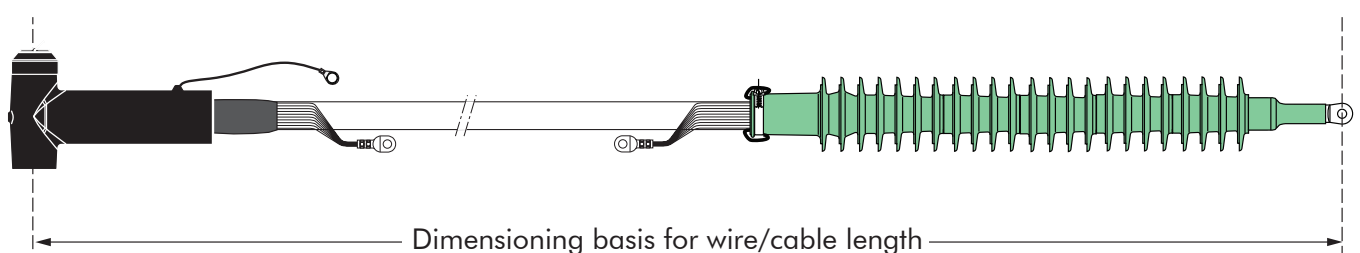
Tee connector

Accessory B

See table for accessory selection.

AFN72

Termination



Example request

Please fill in what is applicable.

	U ₀ / U (kV) 60-69/72.5			Length of shield wire ¹⁾
	L 1	L 2	L 3	
Conductor/ cable type				
Conductor/ cable length				
Accessory A				
Accessory B				

¹⁾ If not indicated, we assume a shield wire length of 500 mm for both cable ends.

Accessory selection

We also assemble accessories not listed here.

Type	Design	Interface	Material	Assembly technique
R909TB/G	Tee connector	F	EPDM	Slip-on technology
R909PB/G	Coupling connector	F	EPDM	Slip-on technology
AFN72	Indoor/outdoor termination	-	Silicone	Slip-on technology

Electrical characteristics

	Routine test IEC 60840 for pre-assembled cables	Routine test CS660 for test leads acc. to Nexans Standard
Power frequency withstand voltage test (AC):	90 kV duration 30 min.	168 kV duration 1 min.
Partial discharge test:	54 kV < 5 pC	87 kV < 5 pC
Lightning Impulse voltage test:(1,2x50 µs)	...	390 kV

All values correspond to dedicated standards of the respective accessories.

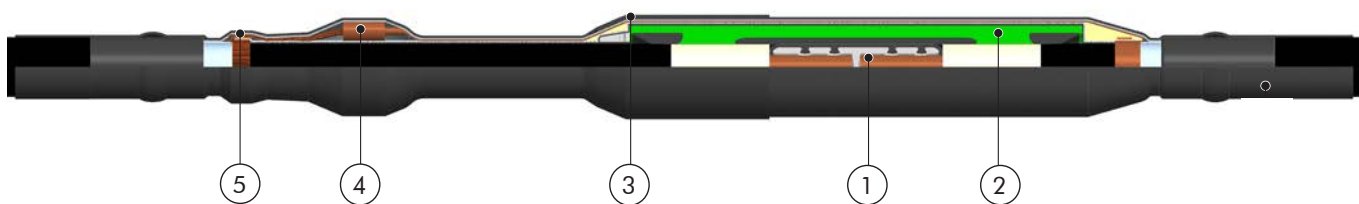
APPLICATION

Non size sensitive slip-on single core straight joint made of silicone, optimized for mechanical connectors. For jointing copper wire screened polymeric cable to be laid in air or directly buried. The product is fully screened and fully submersible.

TECHNICAL CHARACTERISTICS

All joint bodies are tested for AC withstand and partial discharge prior to leaving the factory. Protective outer cover made of heat-shrinkable tubes.

U (U_m)
60-69 (72.5) kV



DESIGN

1. Mechanical conductor connector
2. Premoulded silicone joint body
3. Heat-shrinkable protective cover
4. Mechanical screen wire connector
5. Vapour barrier

SPECIFICATIONS AND STANDARDS

The slip-on single core straight joint 72MSJ is type tested acc. to IEC 60840.

KIT CONTENTS

The 72MSJ Single core straight joint kit comprises the following components:

- 1 mechanical conductor connector
- 1 premoulded joint body
- 1 mechanical screen wire connector
- 1 vapour barrier sleeve

+ The kit also comprises:

- semi-conductive tape, copper woven fabric tape, adhesive tape, sealing mastic, heat-shrinkable tubes, installation instructions

ORDERING INSTRUCTIONS

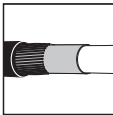
To order the joint, select the joint type which gives you the best centering of your core insulation diameter and add the conductor connector and the screen wire connector.

Order example:
One straight joint for a 72.5 kV XLPE insulated cable with 630 mm² aluminum stranded conductor and 50 mm² copper wire screen. The diameter over core insulation is 54 mm.

For more details on the connectors, please refer to tables on pages 24 to 26.

Order:
72MSJ-4
+ M400-630 + D25-150 for conductor and screen wire cable lug, please see page 25 and page 26

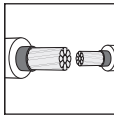
Straight joint type	Max. operating voltage U _m (kV)	Ø over core insulation ²⁾ (mm)		Conductor cross-section ¹⁾ (mm ²)
		min.	max.	
72MSJ-3	72.5	34.5	47.0	120 - 400
72MSJ-4	72.5	47.0	63.0	400 - 1000
72MSJ-5	72.5	63.0	82.0	1000 - 2000



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



For use with other cable types please contact our representative.



Joining cables of different sizes possible.

¹⁾ Indicative for cables with 10 mm insulation wall thickness.
²⁾ After cable preparation.

For detailed electrical ratings please see page 45.



72MSJ-x-SB

SECTIONALIZING SINGLE CORE STRAIGHT JOINT WITH INTEGRATED SCREEN FOR CROSS-BONDING APPLICATION SLIP-ON TECHNOLOGY

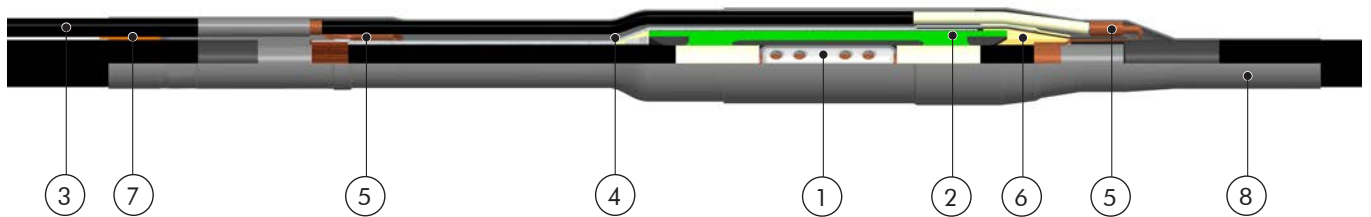
APPLICATION

Non size sensitive slip-on single core straight joint made of silicone, optimized for mechanical connectors. For jointing copper wire screened polymeric cable to be laid in air or directly buried. The product is fully screened and fully submersible.

TECHNICAL CHARACTERISTICS

All joint bodies are tested for AC withstand and partial discharge prior to leaving the factory. Protective outer cover made of heat-shrinkable tubes. Also available for single-bonding

U (U_m)
60-69 (72.5) kV



DESIGN

1. Mechanical conductor connector
2. Premoulded silicone joint body
3. Coaxial cross-bonding cable
4. Vapour barrier
5. Mechanical screen wire connector
6. Shield break
7. Branch clip
8. Heat-shrinkable protective cover

SPECIFICATIONS AND STANDARDS

The slip-on single core straight joint 72MSJ-x-SB is type tested acc. to IEC 60840.

KIT CONTENTS

The 72MSJ-x-SB Single core straight joint kit comprises the following components:

- 1 mechanical conductor connector
- 1 premoulded joint body
- 2 mechanical screen wire connectors
- 1 vapour barrier sleeve
- 1 branch clip (2 for use with single-bonding cables)

+ The kit also comprises:

- semi-conductive tape, copper woven fabric tape, adhesive tape, sealing mastic, heat-shrinkable tubes, installation instructions.

ORDERING INSTRUCTIONS

To order the joint, select the joint type which gives you the best centering of your core insulation diameter and add the conductor connector and the screen wire connector.

Cross-bonding cable is not included in the kit.

For coaxial cross-bonding cable please indicate: -SB1

Order example:

One straight joint for a 72.5 kV XLPE insulated cable with 630 mm² aluminum stranded conductor and 50 mm² copper wire screen. The diameter over core insulation is 54 mm. Used with coaxial cross-bonding cable with 95 mm² copper conductor.

For more details on the connectors, please refer to tables on pages 24 to 26.

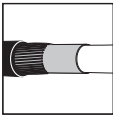
Order:

72MSJ-4-SB1 + M400-630 + D16-95

For single bonding-cables please indicate: -SB2

For conductor and screen wire cable lug, please see page 25 and page 26.

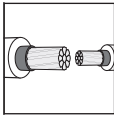
Straight joint type	Max. operating voltage U _m (kV)	Ø over core insulation ²⁾ (mm)		Conductor cross-section ¹⁾ (mm²)
		min.	max.	
72MSJ-3-SB	72.5	34.5	47.0	120 - 400
72MSJ-4-SB	72.5	47.0	63.0	400 - 1000
72MSJ-5-SB	72.5	63.0	82.0	1000 - 2000



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



For use with other cable types please contact our representative.



Joining cables of different sizes possible.

¹⁾ Indicative for cables with 10 mm insulation wall thickness.
²⁾ After cable preparation.

For detailed electrical ratings please see page 45.





POWER ACCESSORIES

Junction solutions Frames & Cabinets

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900 OJC P2-P0 - Offshore junction cabinet	42
900 OJF-C P2(3)-P1(2)(SA) - Offshore junction frame cabinet	44
Electrical characteristics	



900 OJF P1-P1

OFFSHORE JUNCTION FRAME
FOR INSTALLATION ON WALLS AND
STRUCTURES, ACCESSIBLE FROM TWO SIDES

APPLICATION

Offshore Junction Frames are compact, prefabricated modules supporting integrated tower design, e.g. in offshore wind turbines. The frames allow easy accessible, multiple cable connections from two sides and can be arranged open or closed. Each junction frame is an ideal test and delimitation point for different cable types and responsibilities of other installation companies involved.

TECHNICAL CHARACTERISTICS

Simplifies the use of pre-assembled, tested cables to tower equipment.

Protective housing against mechanical damage and harsh environment. Marine grade steel (316L) suitable for severe offshore weather conditions. Open/closed covering for frame mounting, suitable for customer specific

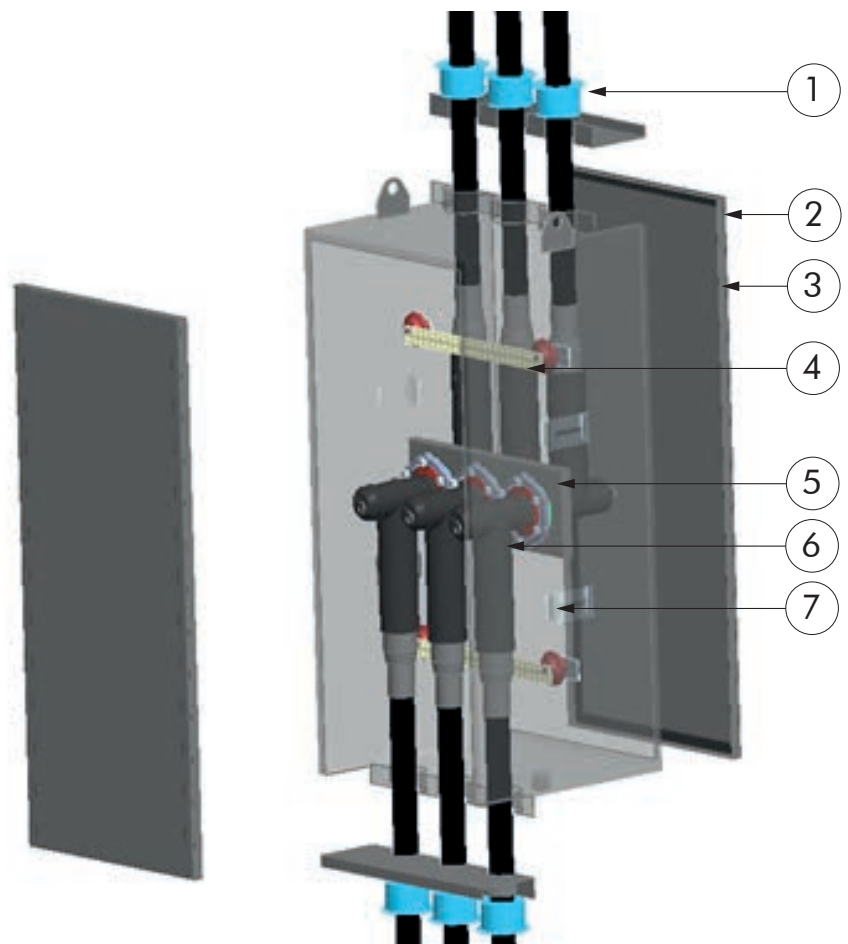
U (U_m)
60-69 (72.5) kV

DESIGN

1. Separable cable sealing
2. Separable gland plate
3. Access panel sealed with neoprene rubber
4. Earthing busbar
5. Baseplate with double bushings R900CP
6. Tee connector R909TB/G
7. Mounting bracket
8. The OJF can be installed vertically or horizontally on walls and structures.

SPECIFICATIONS AND STANDARDS

The housing allows cable installation from two sides and is manufactured of stainless steel 1.4571 and 1.4404. Standard parts are made of stainless steel A2 and A4. Inspection/test reports certification available on request.

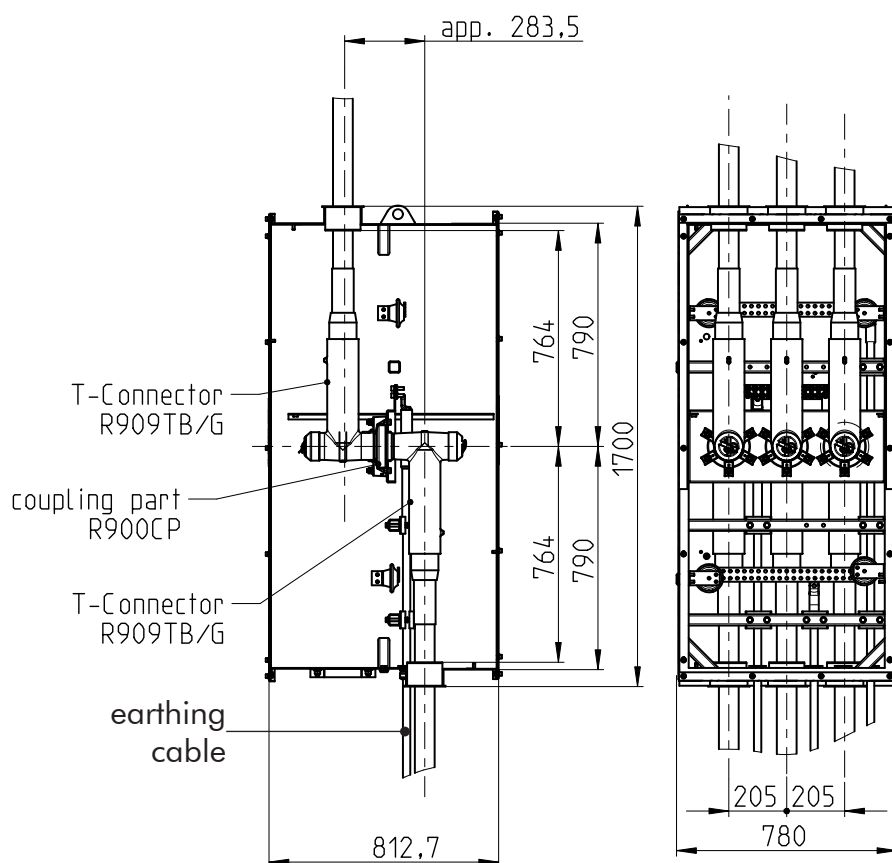
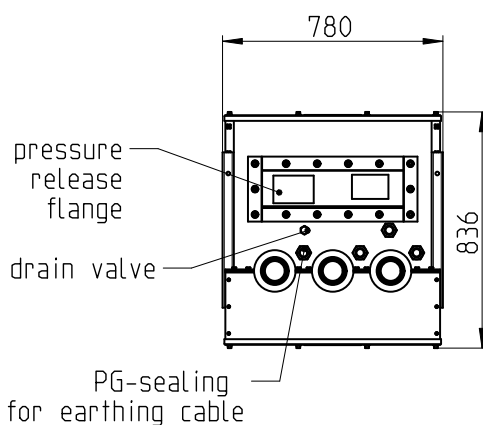


GENERAL INFORMATION

The offshore Junction Solutions are made of stainless steel marine grade 316L, fixings are A2 and A4 grade. Offshore Junction Solutions are designed for IP54, the electrical system (connectors, bushings...) are tested for water immersion depth of 1 m (equivalent to IP68). Earthquake resistance can be included in the design on customer request, and can be verified by simulation.

Bottom closure standard equipped with pressure release. Additional equipment (temperature sensors, fault sensors, voltage detectors...) can be installed on customer request/specification.

DIMENSIONS



900 OJF P2-PO

OFFSHORE JUNCTION FRAME
FOR INSTALLATION ON WALLS AND
STRUCTURES, ACCESSIBLE FROM ONE SIDE

APPLICATION

Offshore Junction Frames are compact, prefabricated modules supporting integrated tower design, e.g. in offshore wind turbines. The frames allow easy accessible, multiple cable connections from one side and can be arranged open or closed. Each junction frame is an ideal test and

TECHNICAL CHARACTERISTICS

Simplifies the use of pre-assembled, tested cables to tower equipment. Protective housing against mechanical damage and harsh environment. Marine grade steel (316L) suitable for harsh offshore weather conditions. Open/closed covering for frame mounting, suitable for customer specific applications.

U (U_m)
60-69 (72.5) kV

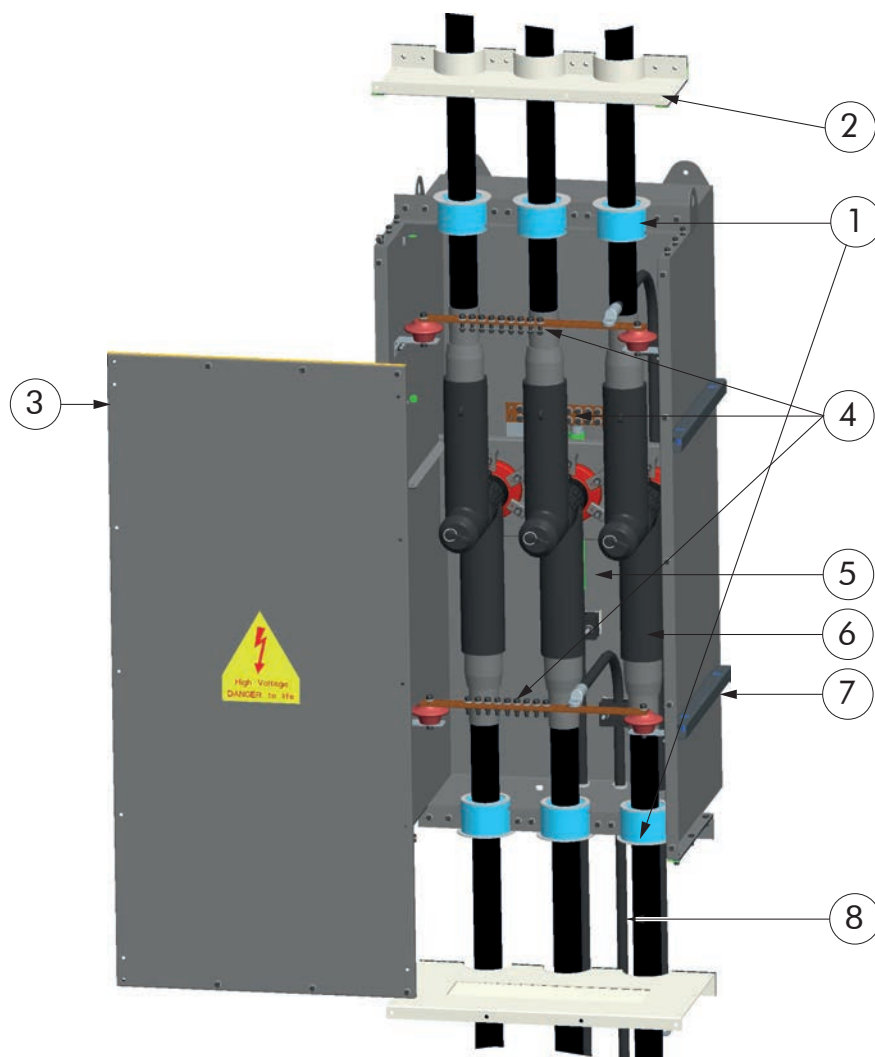
DESIGN

1. Cable sealing
2. Separable gland plate
3. Access panel sealed with neoprene rubber
4. Earthing busbar
5. Baseplate with end bushings R900-SOP-B-AR
6. Tee connector R909TB/G
7. Mounting bracket
8. Earthing cable

The OJF can be installed vertically or horizontally on walls and structures.

SPECIFICATIONS AND STANDARDS

The housing allows cable installation from two sides and is manufactured of stainless steel 1.4571 and 1.4404. Standard parts are made of stainless steel A2 and A4. Inspection/test reports certification available on request.

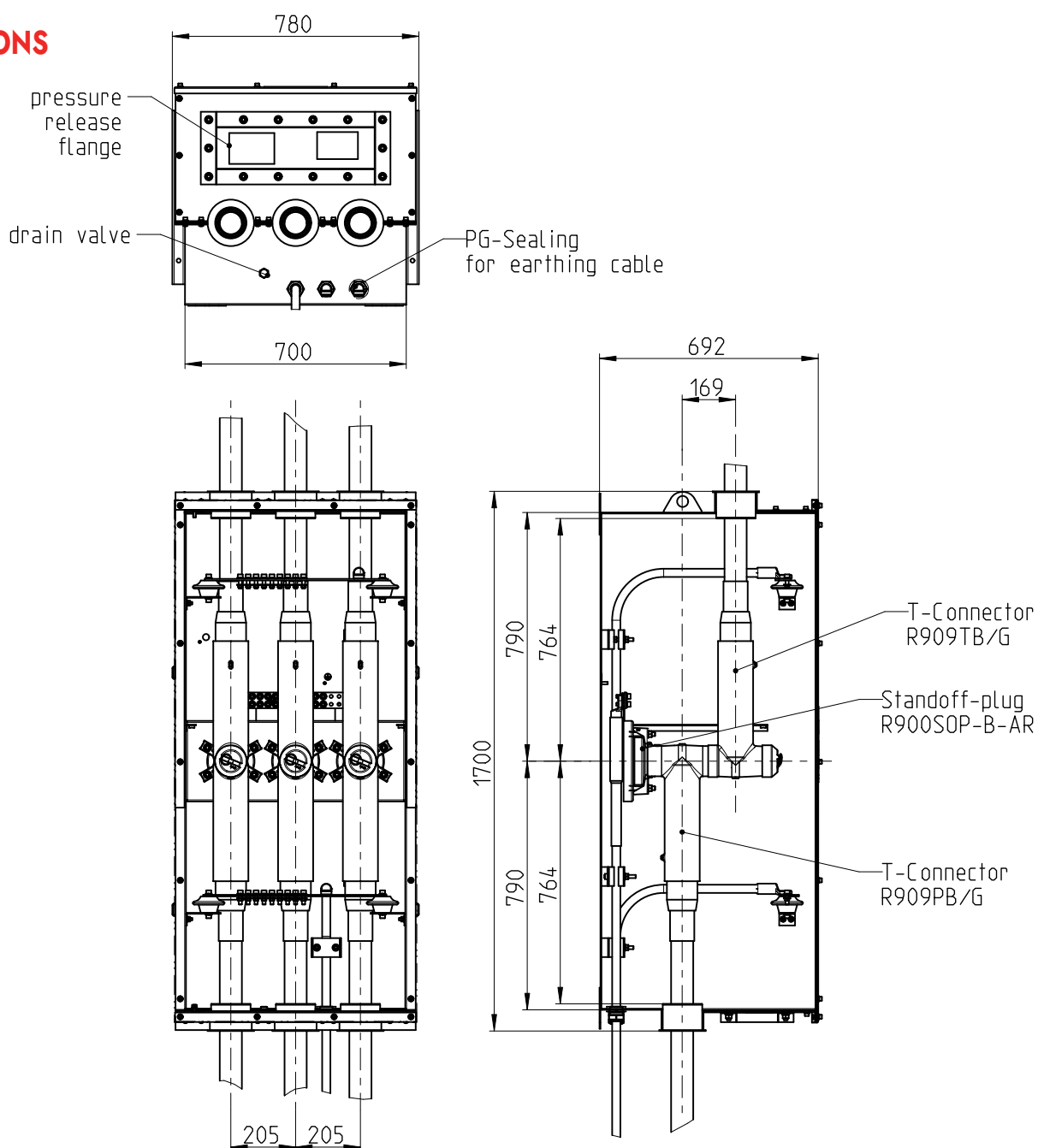


GENERAL INFORMATION

The offshore Junction Solutions are made of stainless steel marine grade 316L, fixings are A2 and A4 grade. Offshore Junction Solutions are designed for IP54, the electrical system (connectors, bushings...) are tested for water immersion depth of 1 m (equivalent to IP68). Earthquake resistance can be included in the design on customer request, and can be verified by simulation.

Bottom closure standard equipped with pressure release. Additional equipment (temperature sensors, fault sensors, voltage detectors...) can be installed on customer request/specification.

DIMENSIONS



900 OJF-C P2(3)-P1(2)

APPLICATION

Offshore Junction Cabinets are prefabricated modules, supporting integrated tower design in offshore wind turbines. Due to a structural steel frame, the cabinets are suitable for floor-mounted installation, e.g. in the transition piece of the tower and up to connect 2, 3, 4 or 5 cables in multiple arrangements. Each junction cabinet is an ideal test and delimitation point for different cable types and responsibilities of other installation companies

TECHNICAL CHARACTERISTICS

Simplifies the use of pre-assembled, tested cables to tower equipment. Protective housing against mechanical damage and harsh environment. Removable housing with guide bars for easy installation. Modular, flexible design for customer specific

$U (U_m)$
60-69 (72.5) kV

DESIGN

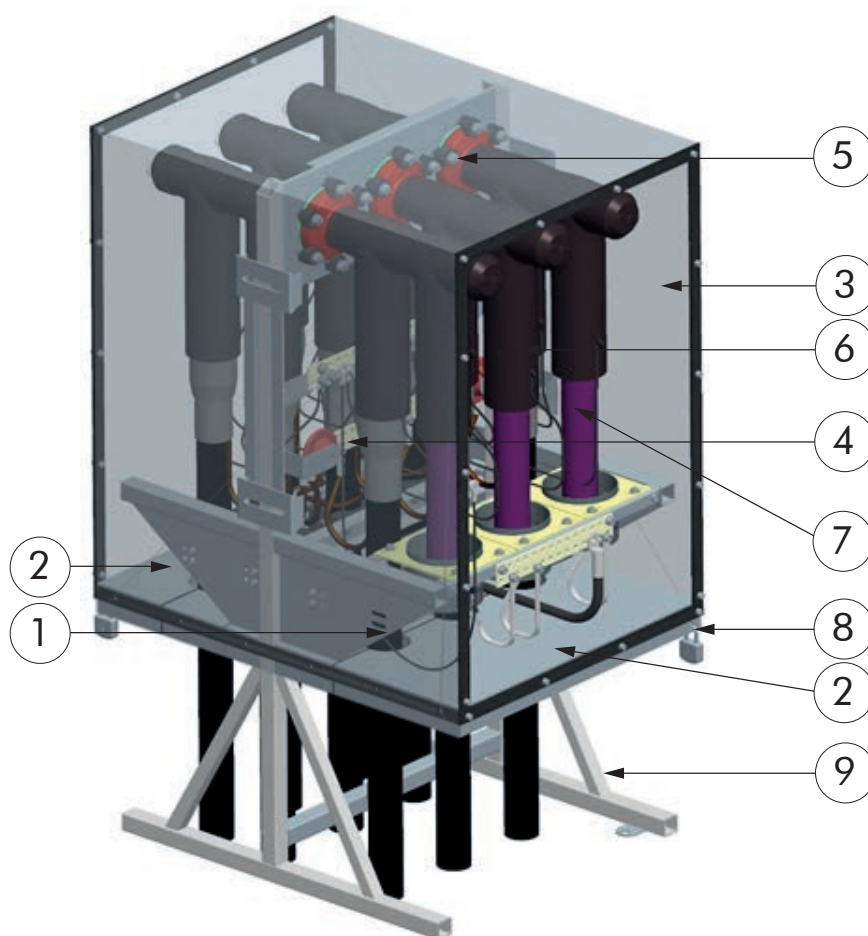
1. Separable cable sealing
2. Separable gland plate
3. Access panel sealed with neoprene rubber
4. Earthing busbar
5. Baseplate with double bushings R900CP
6. Tee connector R909TB/G
7. Surge arrester 900SA-CD
8. Removable doors, that can be locked
9. Steel frame

Due to removable, flexible parts, the OJC can combine different connector/cable arrangements incl. surge arrester.

SPECIFICATIONS AND STANDARDS

When removing the housing, the frame allows cable installation from two sides and is manufactured of stainless steel 1.4571 and 1.4404.

Standard parts (fixings) are made of stainless steel A2 and A4.
Inspection/test reports certification available on request.

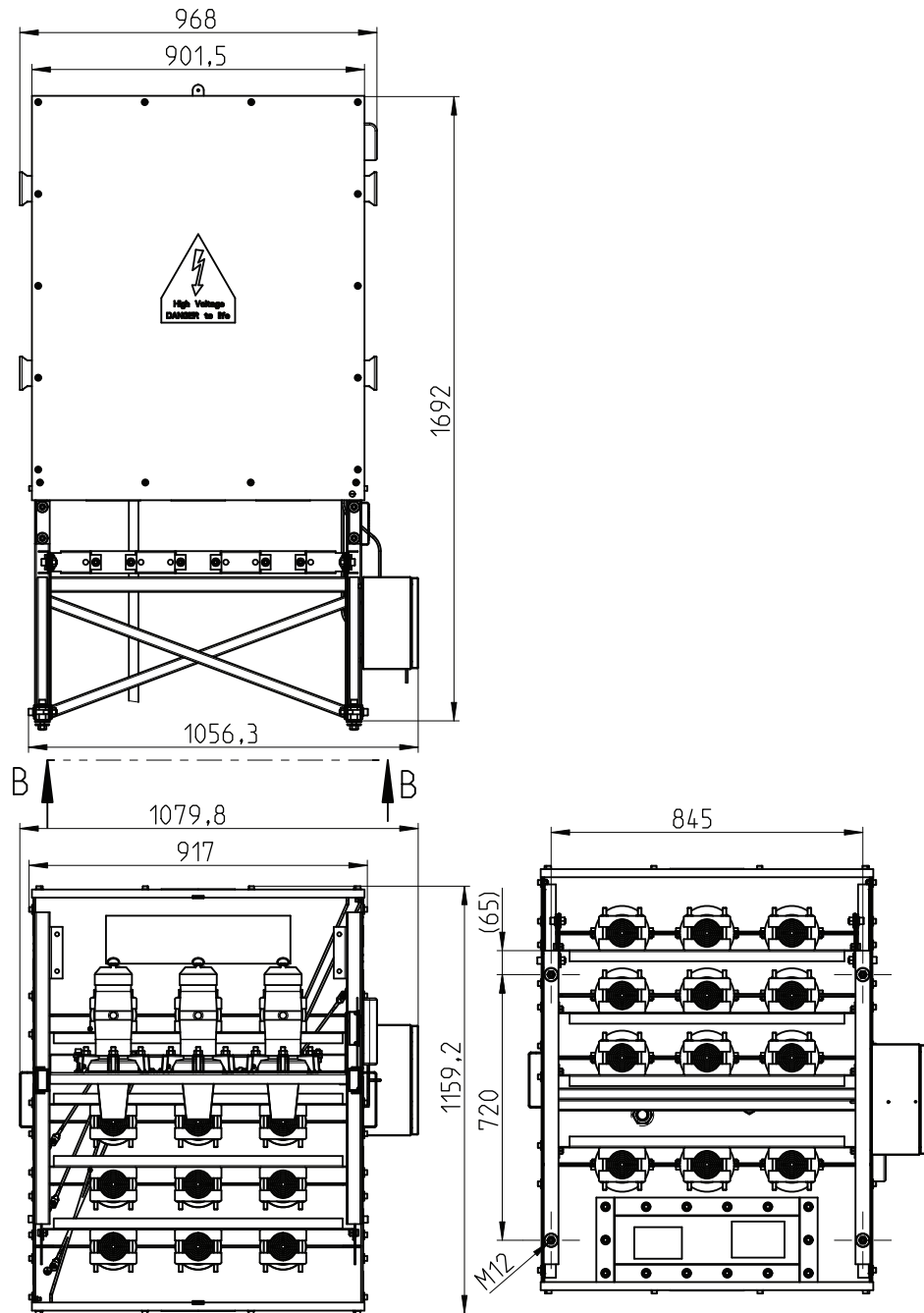


OFFSHORE JUNCTION CABINET
FOR FLOOR-MOUNTED INSTALLATION INCL.
STEEL FRAME, ACCESSIBLE FROM TWO SIDES

GENERAL INFORMATION

The offshore Junction Solutions are made of stainless steel marine grade 316L, fixings are A2 and A4 grade. Offshore Junction Solutions are designed for IP54, the electrical system (connectors, bushings...) are tested for water immersion depth of 1 m (equivalent to IP68). Earthquake resistance can be included in the design on customer request, and

DIMENSIONS



ELECTRICAL CHARACTERISTICS

R909TB/G, R909PB/G

Connector and coupling connector type	Partial discharge (<5pC)	Power frequency withstand voltage	Lighting impulse voltage (1,2x50µs)	Rated short time withstand current	Rated peak withstand current
R909TB/G	54 kV	90 kV/30 min.	325 kV	32.5 kA/3s	84 kA
R909PB/G	54 kV	90 kV/30 min.	325 kV	32.5 kA/3s	84 kA

900SA-CD

Surge arrester type	Nominal discharge current I_n	Line discharge class	Energy withstand capability	Partial discharge
900SA-CD	10 kA	2	Min. 5 kJ/kVU _r	<5pC

Surge arrester type	Steep current residual voltage @ 10 kA [1/20 µs] (kV)	Lighting current residual voltage [8/20 µs] (kV)			Switching impulse residual voltage [30/70 µs] (kV)		High current impulse withstand (kA)	Rated short-circuit current I_{sc} (kA, 0.2s)
		@ 5 kA	@ 10 kA	@ 20 kA	@ 250 A	@ 500 A		
900SA-10-54-CD20	213	132	142	156	110	113	100	20.0
900SA-10-60-CD20	213	146	157	173	122	126	100	20.0
900SA-10-66-CD20	213	161	173	190	135	138	100	20.0
900SA-10-72.5-CD20	213	177	190	209	148	152	100	20.0
900SA-10-74-CD20	213	180	194	213	151	155	100	20.0
900SA-10-54-CD31.5	213	132	142	156	110	113	100	31.5
900SA-10-60-CD31.5	213	146	157	173	122	126	100	31.5
900SA-10-66-CD31.5	213	161	173	190	135	138	100	31.5
900SA-10-72.5-CD31.5	213	177	190	209	148	152	100	31.5
900SA-10-74-CD31.5	213	180	194	213	151	155	100	31.5

Please note: Arrester "family" will be extended soon

All values correspond to dedicated standards of the respective accessories.

R900AR-8-L / 900AR-12

Equipment bushing type	Partial discharge (<10 pC)	Power frequency withstand voltage	Lighting impulse voltage (1,2x50 µs)
R900AR-8-L	54 kV	90 kV/30 min.	325 kV
R900AR-12	54 kV	90 kV/30 min.	325 kV

AFN72

Termination type	Partial discharge (<5 pC)	Power frequency withstand voltage	Impulse voltage (1,2x50 µs)
AFN72	54 kV	90 kV/30 min.	325 kV

72MSJ, 72MSJ-x-SB

Joint type	Partial discharge (<5 pC)	Power frequency withstand voltage	Impulse voltage (1,2x50µs)
72MSJ	54 kV	90 kV/30 min.	325 kV
72MSJ-x-SB2	54 kV	90 kV/30 min.	325 kV

TEST LEADS

READY-TO-INSTALL, PRE-ASSEMBLED CABLES, TEST LEADS

	Routine test IEC 60840 for pre-assembled cables	Routine test CS660 for test leads acc. to Nexans Standard
Power frequency withstand voltage test (AC):	90 kV duration 30 min.	168 kV duration 1 min.
Partial discharge test:	54 kV < 5 pC	87 kV < 5 pC
Lightning Impulse voltage test:(1,2x50 µs)	-	390 kV

All values correspond to dedicated standards of the respective accessories.

About Nexans

For over a century, Nexans has played a crucial role in the electrification of the planet and is committed to electrifying the future. With approximately 28,500 people in 41 countries, the Group is paving the way to a new world of safe, sustainable and decarbonized electricity that is accessible to everyone. In 2023, Nexans generated 6.5 billion euros in standard sales. The Group is a leader in the design and manufacturing of cable systems and services across four main business areas: Power Generation & Transmission, Distribution, Usage and Industry & Solutions. Nexans was the first company in its industry to create a Foundation supporting sustainable initiatives, bringing access to energy to disadvantaged communities worldwide. The Group is recognized on the CDP Climate Change A List as a global leader on climate action and has committed to Net-Zero emissions by 2050 aligned with the Science Based Targets initiative (SBTi).

Nexans. Electrify the future.

Nexans is listed on Euronext Paris, compartment A.

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Find out more about Nexans Power Accessories.

