



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS
FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

11KV 33KV CABLE JOINTS & CABLE TERMINATIONS

FURSE EARTHING

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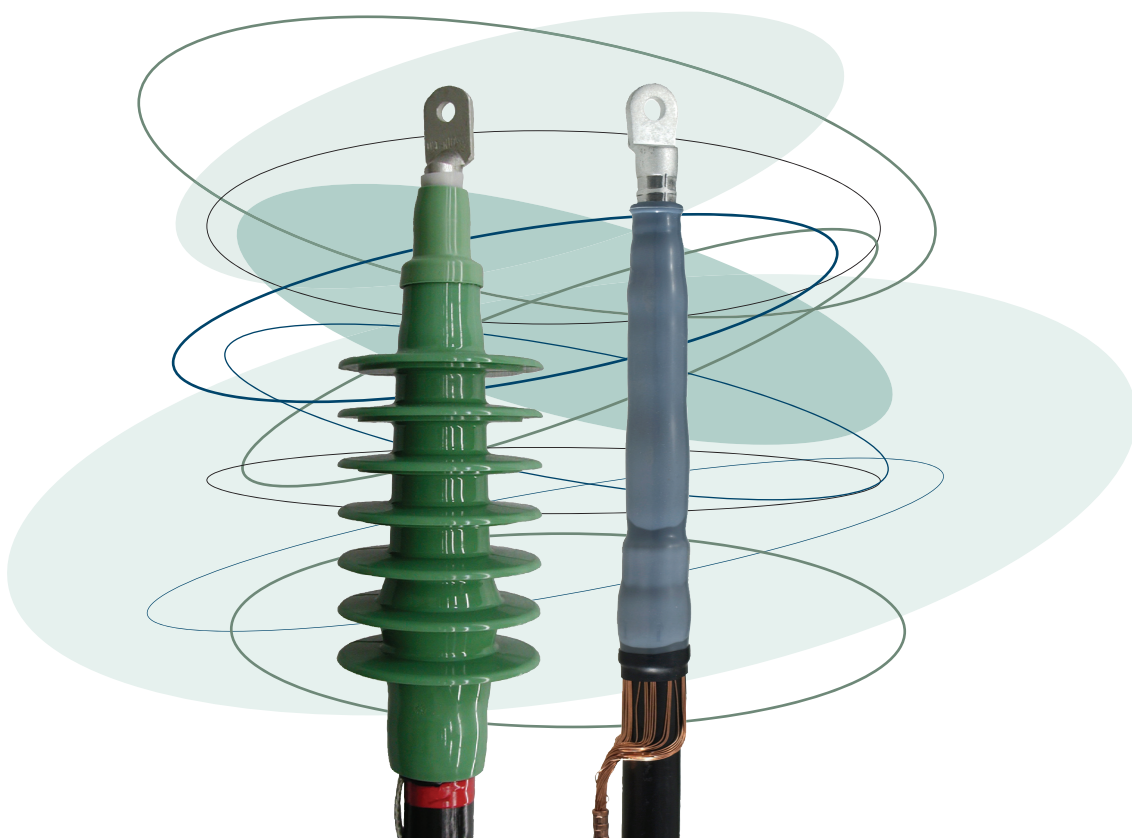
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Euromold

a Nexans company



Medium voltage terminations

Catalogue 2008



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: pre-moulded EPDM or silicone rubber connectors, terminations and joints for cables and epoxy bushings for transformers and switch gear, as well as a large range of cold-shrinkable terminations and joints from 12 to 42 kV.

Euromold is also the manufacturer of electrical components for the high voltage accessories of the Nexans group.

ISO 9001 Certificate

Since 1992, Euromold's commitment to quality is demonstrated by its ISO 9001 certification.

International standards

All our products meet the International standards like CENELEC HD 629.1, CENELEC EN 50180, IEC 60137, IEEE 386 & 404... or country specifications. Official certificates, CESI, KEMA, ATEX... prove the conformity of our products. Long duration tests of existing or new products are continuously performed in our test fields.

Laboratory accreditation

Since June 2000, Euromold's independent ELAB laboratory obtained the BELTEST accreditation no.192-T-ISO 17025 conform with the European standards for laboratories ISO 17025 for electrical testing of medium voltage cable accessories according to the International standards IEC 61442 and HD 629.

While every care is taken to ensure that the information contained in this publication is correct, no legal responsibility can be accepted for any inaccuracy. Nexans Network Solutions N.V. - Div. Euromold reserves the right to alter or modify the characteristics of its products described in this catalogue as standards and technology evolve.

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ITK - indoor termination
OTK - outdoor termination
AIN - indoor termination
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T-OTK - 3-core outdoor termination
15TS-NSS - universal bushing boot

Up to 24 kV

Application

A kit of 3 terminations for use indoors in controlled environmental conditions and subject to light condensation. To connect polymeric insulated cable to equipment.

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

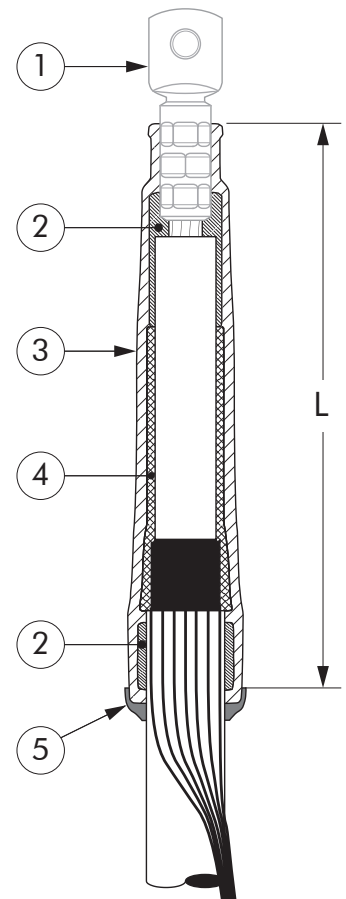
Design

Indoor termination comprising:

1. Cable lug (not included in the standard kit).
2. Water sealing mastic.
3. Silicone tube.
4. Stress control mastic.
5. Conductive EPDM ring.

Specifications and standards

Meets the requirements of CENELEC HD 629.1.

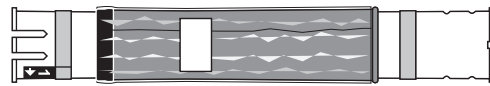


Termination type	Voltage Um (kV)	Strike distance L (mm)	Diameter over core insulation (mm)		Conductor sizes (mm ²)	
			min.	max.	min.	max.
ITK 212	12	260	14	33	50	400
ITK 312	12	300	30	50	400	1000
ITK 224	24	260	14	33	25	240
ITK 324	24	300	30	50	300	800

Kit contents

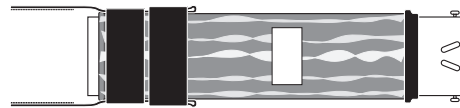
The complete ITK termination kit comprises the following components:

The kit also comprises water sealing mastic and installation instructions.



= 3 x ITK 212 or ITK 224 termination kit

3 x Factory pre-assembled silicone tubes comprising stress relief and sealing mastic.



= 3 x ITK 312 or ITK 324 termination kit

3 x Factory pre-assembled silicone tubes comprising stress relief and sealing mastic.

Ordering instructions

Select the part number corresponding to both the system voltage and the cable insulation diameter in mm.

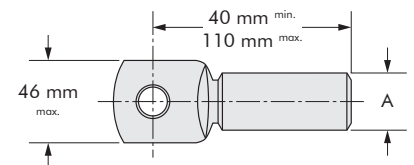
Ordering part number	Voltage Um (kV)	Diameter over core insulation (mm)		Conductor sizes (mm ²)	
		min.	max.	min.	max.
3 x ITK 212	12	14	33	50	400
3 x ITK 312	12	30	50	400	1000
3 x ITK 224	24	14	33	25	240
3 x ITK 324	24	30	50	300	800

Example:

The copper wire screened cable is 12 kV, 150 mm² stranded aluminium.

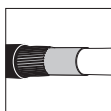
The diameter over core insulation is 26.2 mm.

Order a 3 x ITK 212 termination kit.

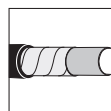


All commercialised European standard cable lugs can be used.

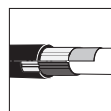
Cable lugs should be within the dimensions specified (not applicable for ITK 312 and ITK 324).



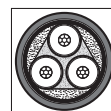
For use with copper wire screened cables. No earthing device is necessary.



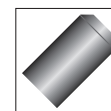
For use with copper tape screened cables. Also order a Kit MT.



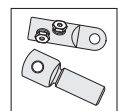
For use with Alupe or C 33-226 cables. Please contact our representative.



For use with three-core cables: see T-ITK.



If the cable lug barrel diameter (A) is less than 20 mm: order a rubber adapting sleeve.



Can be supplied with all common types of cable lugs.

Up to 24 kV

Application

A kit of 3 terminations for use outdoors and exposed to prolonged sunshine and other weather conditions.

To connect polymeric insulated cable to equipment and for the outdoor terminating on to overhead lines or bus bars.

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

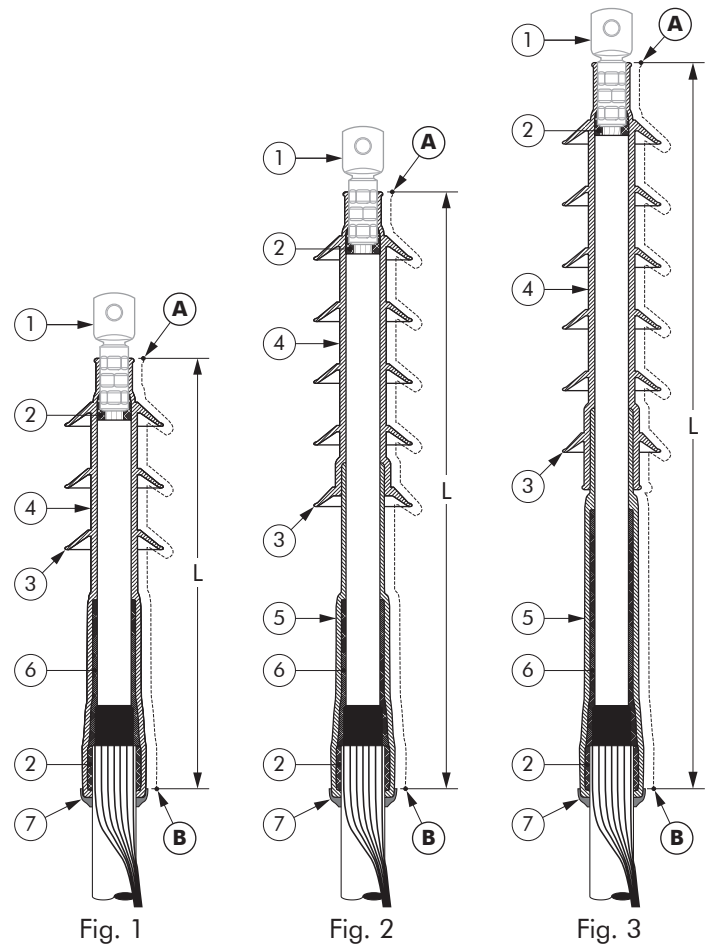
Design

Outdoor termination comprising:

1. Cable lug (not included in the standard kit).
2. Water sealing mastic.
3. Sheds which can be installed upwards or down.
4. Silicone tube with sheds.
5. Silicone tube.
6. Stress control mastic.
7. Conductive EPDM ring.

Specifications and standards

Meets the requirements of CENELEC HD 629.1.

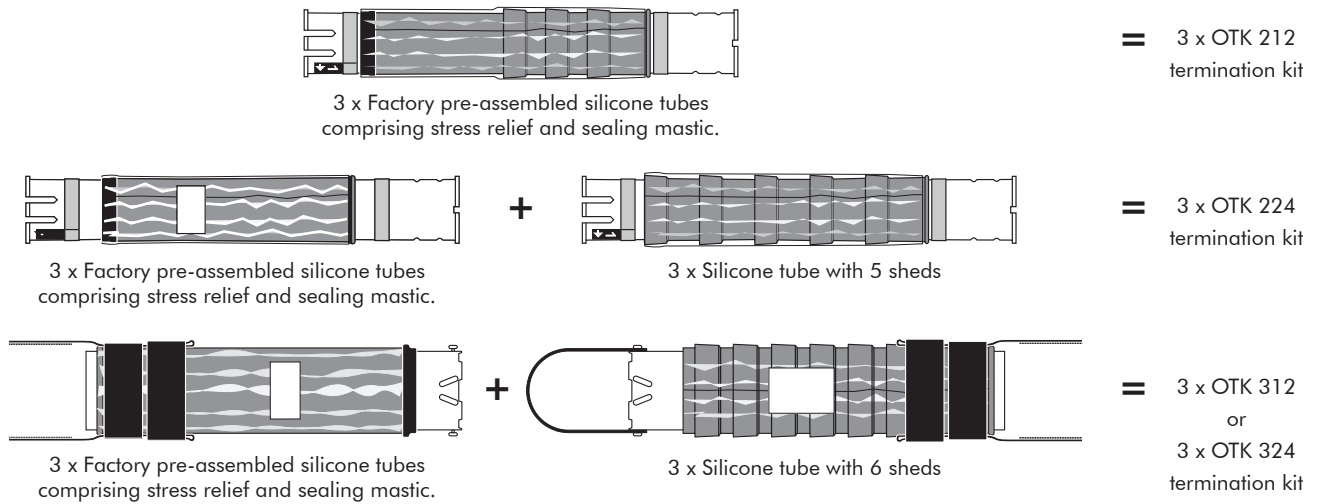


Termination type	Voltage U_m (kV)	Creepage distance A-B (mm)	Strike distance "L" (mm)	Diameter over core insulation (mm)		Number of sheds	Conductor sizes (mm ²)		Fig. no.
				min.	max.		min.	max.	
OTK 212	12	420	300	14	33	3	50	400	1
OTK 312	12	890	650	30	50	6	500	1000	3
OTK 224	24	600	400	19	33	5	50	240	2
OTK 324	24	890	650	30	50	6	300	630	3

Kit contents

The complete OTK termination kit comprises the following components:

The kit also comprises water sealing mastic and installation instructions.



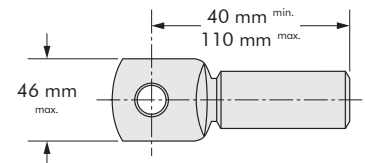
Ordering instructions

Select the part number corresponding to both the system voltage and the cable insulation diameter in mm.

Ordering part number	Voltage U_m (kV)	Diameter over core insulation (mm)		Conductor sizes (mm ²)	
		min.	max.	min.	max.
3 x OTK 212	12	14	33	50	400
3 x OTK 312	12	30	50	500	1000
3 x OTK 224	24	19	33	50	240
3 x OTK 324	24	30	50	300	800

Example:

The copper wire screened cable is 24 kV, 150 mm² stranded aluminium. The diameter over core insulation is 26.2 mm. Order a 3 x OTK 224 termination kit.



All commercialised European standard cable lugs can be used. Cable lugs should be within the dimensions specified (not applicable for OTK 312 and OTK 324).

For use with copper wire screened cables. No earthing device is necessary.	For use with copper tape screened cables. Also order a Kit MT.	For use with fabric tape (graphite) screened cables. Order additional semi-conductive tape (type TSC).	For use with Alupe or C 33-226 cables. Please contact our representative.	For use with three-core cables: see T-OTK.	Can be supplied with all common types of cable lugs.

AIN INDOOR TERMINATIONS

Up to 42 kV

Application

A kit of 3 terminations for use indoors in controlled environmental conditions and subject to light condensation. Provides a simple and quick method of stress relieving on screened polymeric cables.

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
20.8/36 (41.5) kV

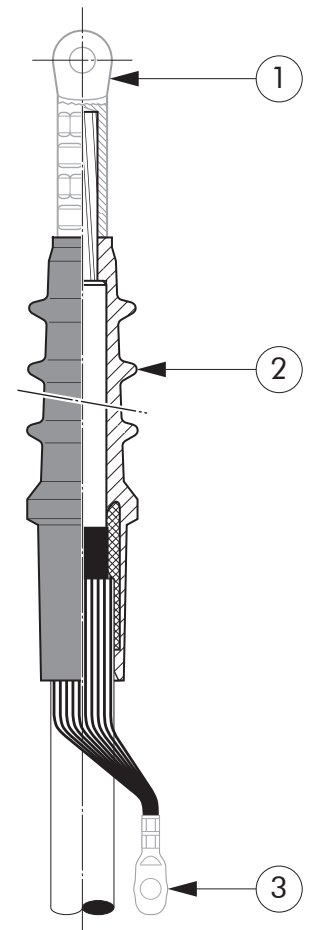
Design

Indoor termination comprising:

1. Cable lug (not included in the standard kit).
2. High flexibility silicone rubber housing, allowing larger tolerances on cable insulation diameters, with integrated conductive rubber insert, providing stress relief.
3. Earthing lug (not included in the standard kit).

Specifications and standards

Meets the requirements of CENELEC HD 629.1 and IEC 60502-4.



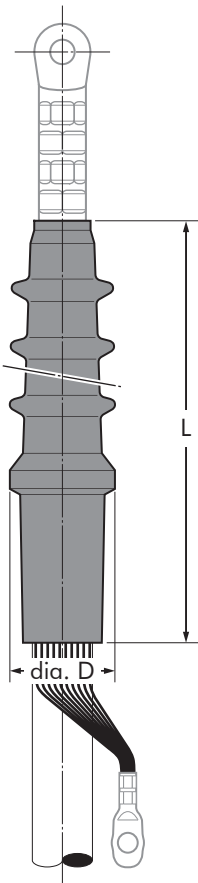
Termination type	Voltage U_m (kV)	Conductor sizes (mm ²)	
		min.	max.
AIN 10	12	25	1000
AIN 20	24	35	1000
AIN 30	36	50	800
AIN 36	42	150	800

Kit contents

A kit always comprises
 3 termination housings,
 installation instructions, special
 lubricant, wiper, adhesive tape,
 field control mastic, ...
 Cable lugs and earthing
 lugs are not included in the
 standard kit, but can be
 ordered separately.

Ordering instructions

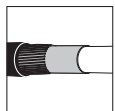
Select the part number
 corresponding to both the
 system voltage and the cable
 dimensions in mm.



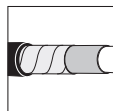
Voltage U_m (kV)	Conductor sizes (mm ²)		Diameter over core insulation (mm)		Number of sheds	L (mm)	Dia. D (mm)	Ordering part number
	min.	max.	min.	max.				
12	25	95	13.5	20.8	2	150	37	3 x AIN 10-1-H
	120	240	19.4	28.4	2	150	43	3 x AIN 10-2-H
	300	500	27.4	36.6	2	150	60	3 x AIN 10-3-H
	800	1000	40.0	55.0	7	330	127	3 x AIN 10-4-H
24	35	70	18.3	23.4	3	225	47	3 x AIN 20-1-H
	95	240	23.0	32.6	3	225	56	3 x AIN 20-2-H
	300	630	31.6	43.5	3	225	62	3 x AIN 20-3-H
	500	1000	40.0	55.0	7	330	127	3 x AIN 20-4-H
36	50	70	24.2	28.4	6	300	74	3 x AIN 30-1-H
	95	240	27.3	37.6	6	300	74	3 x AIN 30-2-H
	240	400	31.5	42.8	6	300	81	3 x AIN 30-3-H
	400	800	40.0	55.0	7	330	127	3 x AIN 30-4-H
42	150	300	31.5	42.8	7	330	127	3 x AIN 36-3-H
	400	800	40.0	55.0	7	330	127	3 x AIN 36-4-H

Example:

A set of 3 indoor terminations
 for a 24 kV - 240 mm² stranded
 aluminium cable with copper wire
 screen without cable lugs.
 The diameter over core insulation
 is 30.4 mm.
 Order a 3 x AIN 20-2-H
 termination kit.



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



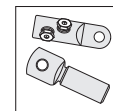
For use with
 copper tape
 screened cables.
 Order: -/MT.



For use with
 three-core cables.
 Please contact our
 representative.



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



Can be supplied with
 all common types of
 cable lugs.



No heating or flame
 is required.

AFN OUTDOOR TERMINATIONS

Application

A kit of 3 terminations for use outdoors and exposed to prolonged sunshine and other weather conditions.

To connect polymeric insulated cable to equipment and for the outdoor terminating on to overhead lines or bus bars.

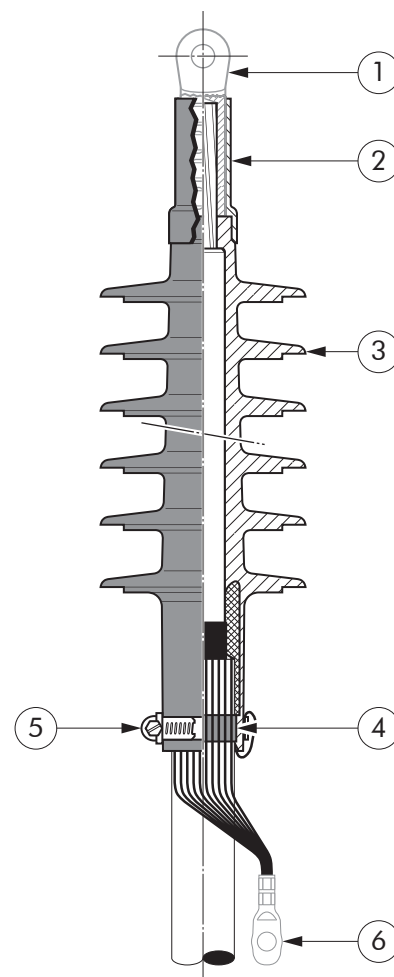
Up to 42 kV

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
20.8/36	(41.5)	kV

Design

Outdoor termination comprising:

1. Cable lug (not included in the standard kit).
2. Water sealing silicone sleeve.
3. Silicone housing with sheds and integrated conductive silicone rubber insert providing stress relief for the cable.
4. Water sealing mastic.
5. Earthing clamp.
6. Earthing lug (not included in the standard kit).



Specifications and standards

Meets the requirements of CENELEC HD 629.1 and IEC 60502-4.

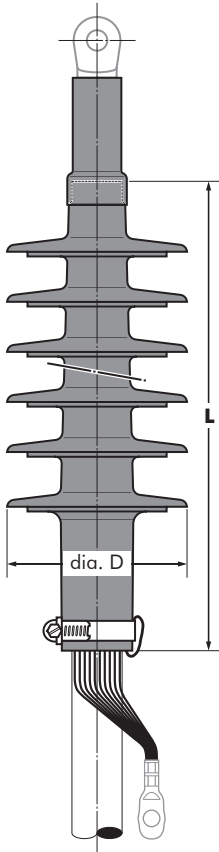
Termination type	Voltage U_m (kV)	Conductor sizes (mm ²)	
		min.	max.
AFN 10	12	25	1000
AFN 20	24	35	1000
AFN 30	36	50	800
AFN 36	42	150	800

Kit contents

A kit always comprises
 3 termination housings, water
 sealing sleeve, the installation
 instructions, special lubricant,
 wiper, earthing clamp, water
 sealing mastic, adhesive tape,
 field control mastic, ...
 Cable lugs and earthing
 lugs are not included in the
 standard kit, but can be
 ordered separately.

Ordering instructions

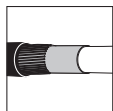
Select the part number
 corresponding to both the
 system voltage and the cable
 dimensions in mm.



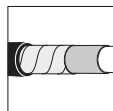
Voltage Um (kV)	Conductor sizes (mm ²)		Diameter over core insulation (mm)		Number of sheds	L (mm)	Dia. D (mm)	Creepage distance (mm)	Ordering part number
	min.	max.	min.	max.					
12	25	95	13.5	20.8	3	150	90	369	3 x AFN 10-1-H
	120	240	19.4	28.4	3	150	96	365	3 x AFN 10-2-H
	300	500	27.4	36.6	3	150	105	360	3 x AFN 10-3-H
	800	1000	40.0	55.5	7	330	127	749	3 x AFN 10-4-H
24	35	70	18.3	23.4	4	225	100	480	3 x AFN 20-1-H
	95	240	23.0	32.6	4	225	112	499	3 x AFN 20-2-H
	300	630	31.6	43.5	4	225	118	462	3 x AFN 20-3-H
	500	1000	40.0	55.5	7	330	127	749	3 x AFN 20-4-H
36	50	70	24.2	28.4	6	300	115	695	3 x AFN 30-1-H
	95	240	27.3	37.6	6	300	115	694	3 x AFN 30-2-H
	240	400	31.5	42.8	6	300	127	718	3 x AFN 30-3-H
	400	800	40.0	55.0	7	330	127	749	3 x AFN 30-4-H
42	150	300	31.5	42.8	7	330	127	749	3 x AFN 36-3-H
	400	800	40.0	55.0	7	330	127	749	3 x AFN 36-4-H

Example:

A set of 3 outdoor terminations
 for a 24 kV - 240 mm² stranded
 aluminium cable with copper wire
 screen without cable lugs.
 The diameter over core insulation
 is 30.4 mm.
 Order a 3 x AFN 20-2-H
 termination kit.



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



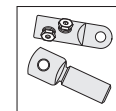
For use with
 copper tape
 screened cables.
 Order: -/MT.



For use with
 three-core cables.
 Please contact our
 representative.



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



Can be supplied with
 all common types of
 cable lugs.



No heating or flame
 is required.

T-ITK THREE CORE INDOOR TERMINATIONS

Up to 24 kV

Application

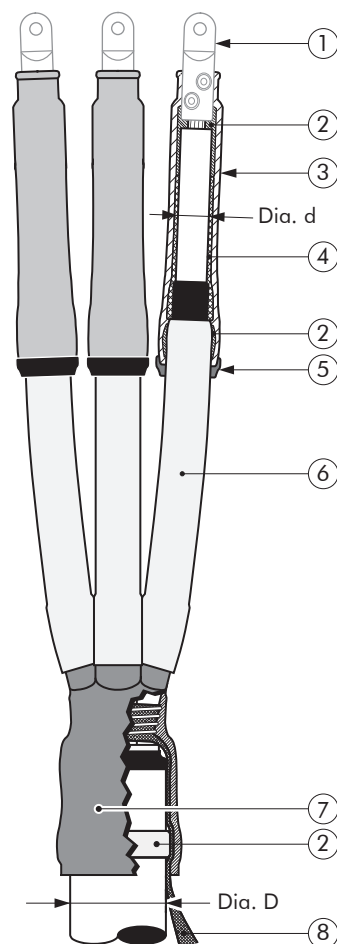
The T-ITK is a cold-shrinkable indoor termination suited for polymeric insulated three-core cables. It will provide a necessary seal against moisture penetration and a perfect electrical field control.

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

Cold-shrinkable termination comprising:

1. Cable lugs (not included in the standard kit).
2. Water sealing mastic.
3. Silicone rubber tubes.
4. Stress control mastic.
5. Conductive EPDM ring.
6. Silicone rubber protection tubes.
7. Break-out.
8. Flexible tinned copper braid (for use with individual metal tape screened cables).



Specifications and standards

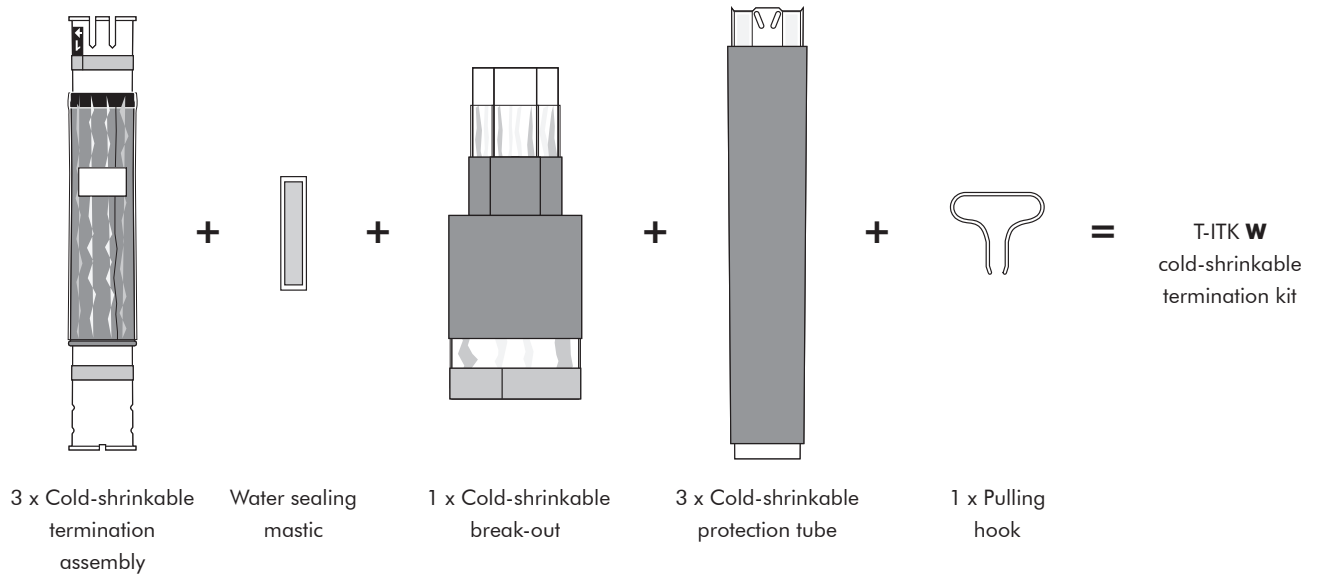
The cold-shrinkable T-ITK termination meets the requirements of CENELEC HD 629.1.

Termination type	Voltage U_m (kV)	Diameter over core insulation Dia. d (mm)		Diameter over outer sheath Dia. D (mm)		Conductor sizes (for information only) (mm ²)	
		min.	max.	min.	max.	min.	max.
T-ITK 12-1	12	16	30	48	90	50	240
T-ITK 12-2	12	26	42	68	110	240	400
T-ITK 24-1	24	16	30	48	90	25	185
T-ITK 24-2	24	26	42	68	110	150	240

Kit contents

The complete cold-shrinkable T-ITK termination kit comprises the following components:

The kit also comprises a roll of adhesive tape, flexible copper braid and installation instructions.



Ordering instructions

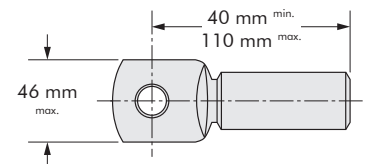
Select the part number corresponding to both the system voltage and the cable dimensions in mm.

Example:

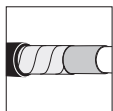
The cable is 12 kV, 3 x 150 mm² stranded aluminium, with a diameter of 72.0 mm over outer sheath and 23.5 mm over the core insulation.

The cable has an individual copper tape screen.
Order a T-ITK 12-1 termination kit.

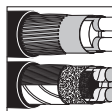
Ordering part number	Voltage Um (kV)	Diameter over core insulation (mm)		Diameter over outer sheath (mm)	
		min.	max.	min.	max.
T-ITK 12-1	12	16	30	48	90
T-ITK 12-2	12	26	42	68	110
T-ITK 24-1	24	16	30	48	90
T-ITK 24-2	24	26	42	68	110



All commercialised European standard cable lugs can be used.
Cable lugs should be within the dimensions specified (not applicable for ITK 312 and ITK 324).



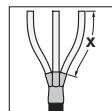
For use with copper tape screened cables. No further earthing device is necessary.



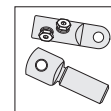
Different armour connections are available. Please contact our representative.



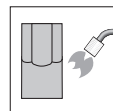
For use with other cable types. Please contact our representative.



For tail lengths "X" between 500 and 700 mm.



Can be supplied with all common types of cable lugs.



Also available with heat-shrinkable break-out

T-OTK THREE CORE OUTDOOR TERMINATIONS

Up to 24 kV

Application

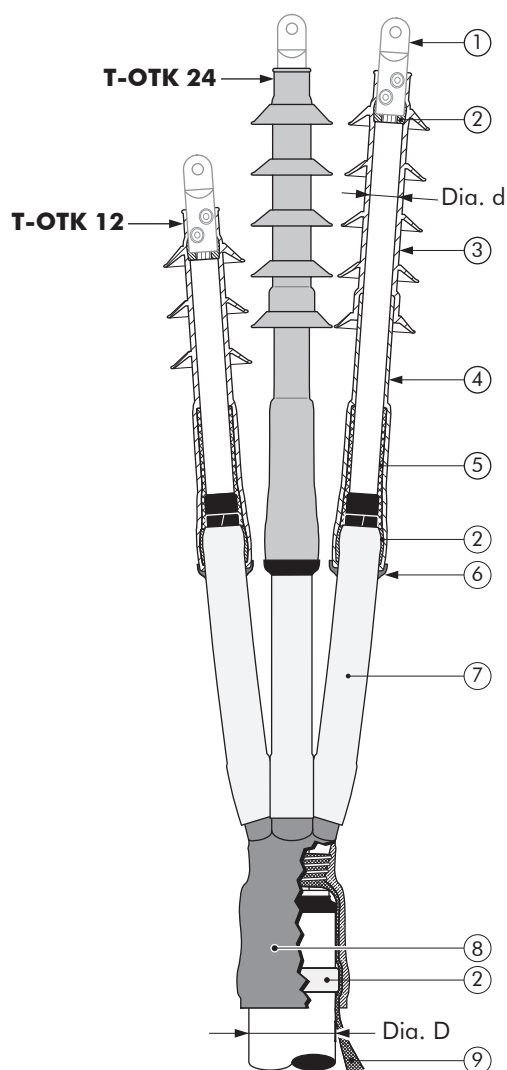
The T-OTK is a cold-shrinkable outdoor termination suited for polymeric insulated three-core cables. It will provide a necessary seal against moisture penetration and a perfect electrical field control.

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

Cold-shrinkable termination comprising:

1. Cable lugs (not included in the standard kit).
2. Water sealing mastic.
3. Silicone rubber tubes with sheds.
4. Silicone rubber tubes.
5. Stress control mastic.
6. Conductive EPDM ring.
7. Silicone rubber protection tubes.
8. Break-out.
9. Flexible finned copper braid (for use with individual metal tape screened cables).



Specifications and standards

The cold-shrinkable T-OTK termination meets the requirements of CENELEC HD 629.1.

Termination type	Voltage U_m (kV)	Diameter over core insulation Dia. d (mm)		Diameter over outer sheath Dia. D (mm)		Conductor sizes (for information only) (mm ²)	
		min.	max.	min.	max.	min.	max.
T-OTK 12-1	12	16	30	48	90	50	240
T-OTK 12-2	12	26	42	68	110	240	400
T-OTK 24-1	24	20	30	48	90	50	185
T-OTK 24-2	24	26	42	68	110	150	240

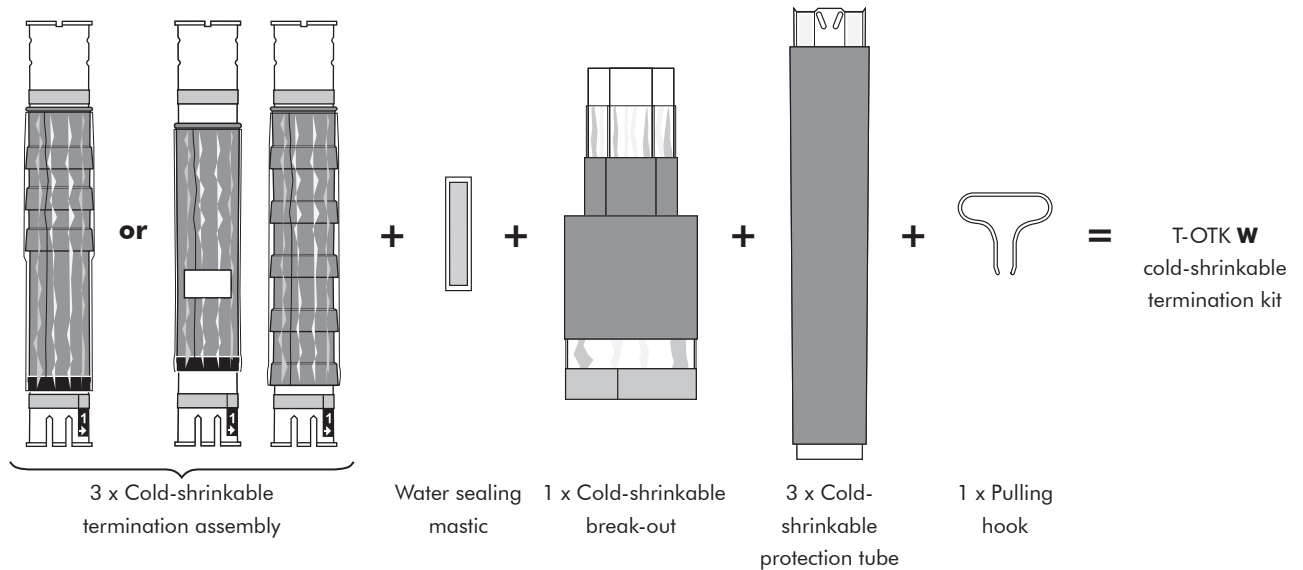
Kit contents

The complete cold-shrinkable T-OTK termination kit comprises the following components:

The kit also comprises a roll of adhesive tape, flexible copper braid and installation instructions.

T-OTK 12

T-OTK 24



Ordering instructions

Select the part number corresponding to both the system voltage and the cable dimensions in mm.

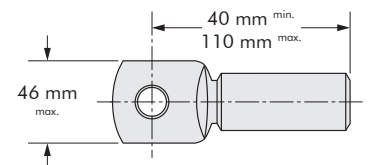
Example:

The cable is 12 kV, 3 x 150 mm² stranded aluminium, with a diameter of 72.0 mm over outer sheath and 23.5 mm over the core insulation.

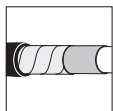
The cable has an individual copper tape screen.

Order a T-OTK 12-1 termination kit.

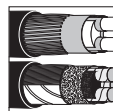
Ordering part number	Voltage Um (kV)	Diameter over core insulation (mm)		Diameter over outer sheath (mm)	
		min.	max.	min.	max.
T-OTK 12-1	12	16	30	48	90
T-OTK 12-2	12	26	42	68	110
T-OTK 24-1	24	20	30	48	90
T-OTK 24-2	24	26	42	68	110



All commercialised European standard cable lugs can be used. Cable lugs should be within the dimensions specified.



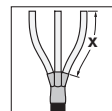
For use with copper tape screened cables. No further earthing device is necessary.



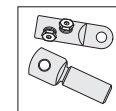
Different armour connections are available. Please contact our representative.



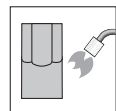
For use with other cable types. Please contact our representative.



For tail lengths "X" between 650 and 850 mm.



Can be supplied with all common types of cable lugs.



Also available with heat-shrinkable break-out

15TS-NSS UNIVERSAL BUSHING BOOT

Up to 17.5 kV

Application

This universal bushing boot is manufactured from non-tracking EPDM rubber and is designed to mate with all types of cold or heat-shrinkable terminations (without sheds). The bushing part fits interface diameters between 40 and 60 mm. The system is separable and allows easy removal for testing. This boot is suitable for all angles between 90° and 180°.

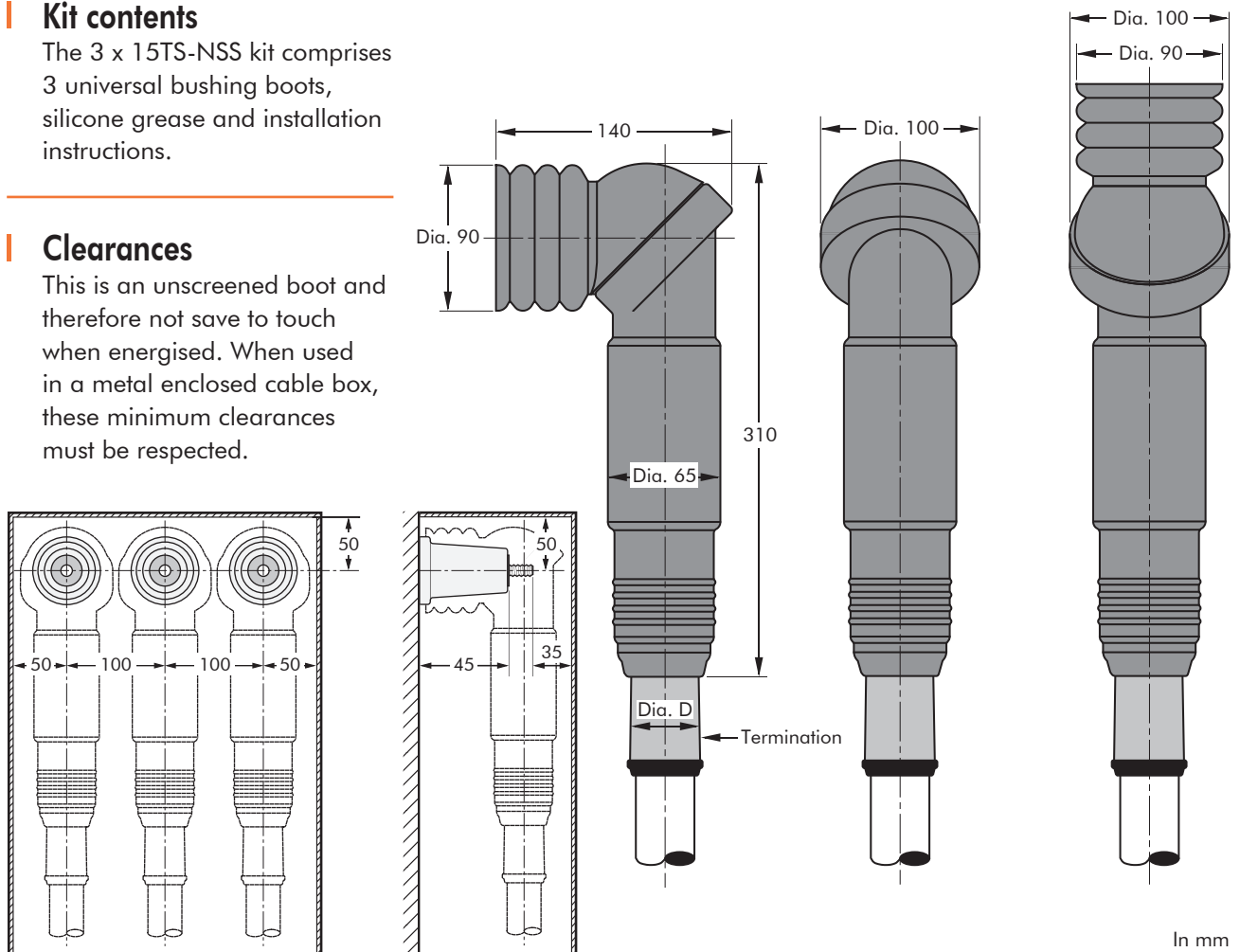
6/10 (12) kV
6.35/11 (12) kV
8.7/15 (17.5) kV

Kit contents

The 3 x 15TS-NSS kit comprises 3 universal bushing boots, silicone grease and installation instructions.

Clearances

This is an unshielded boot and therefore not safe to touch when energised. When used in a metal enclosed cable box, these minimum clearances must be respected.



Bushing boot type	Voltage U_m (kV)	Conductor sizes (mm ²)		Diameter D over termination (mm)	
		min.	max.	min.	max.
15TS-NSS	17.5 max.	35	630	20	50

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