



AIS - Indoor slip-on termination, silicone, for multiple voltage levels up to 24 kV

STANDARDS

Test CENELEC HD 629.1

DESCRIPTION

Application

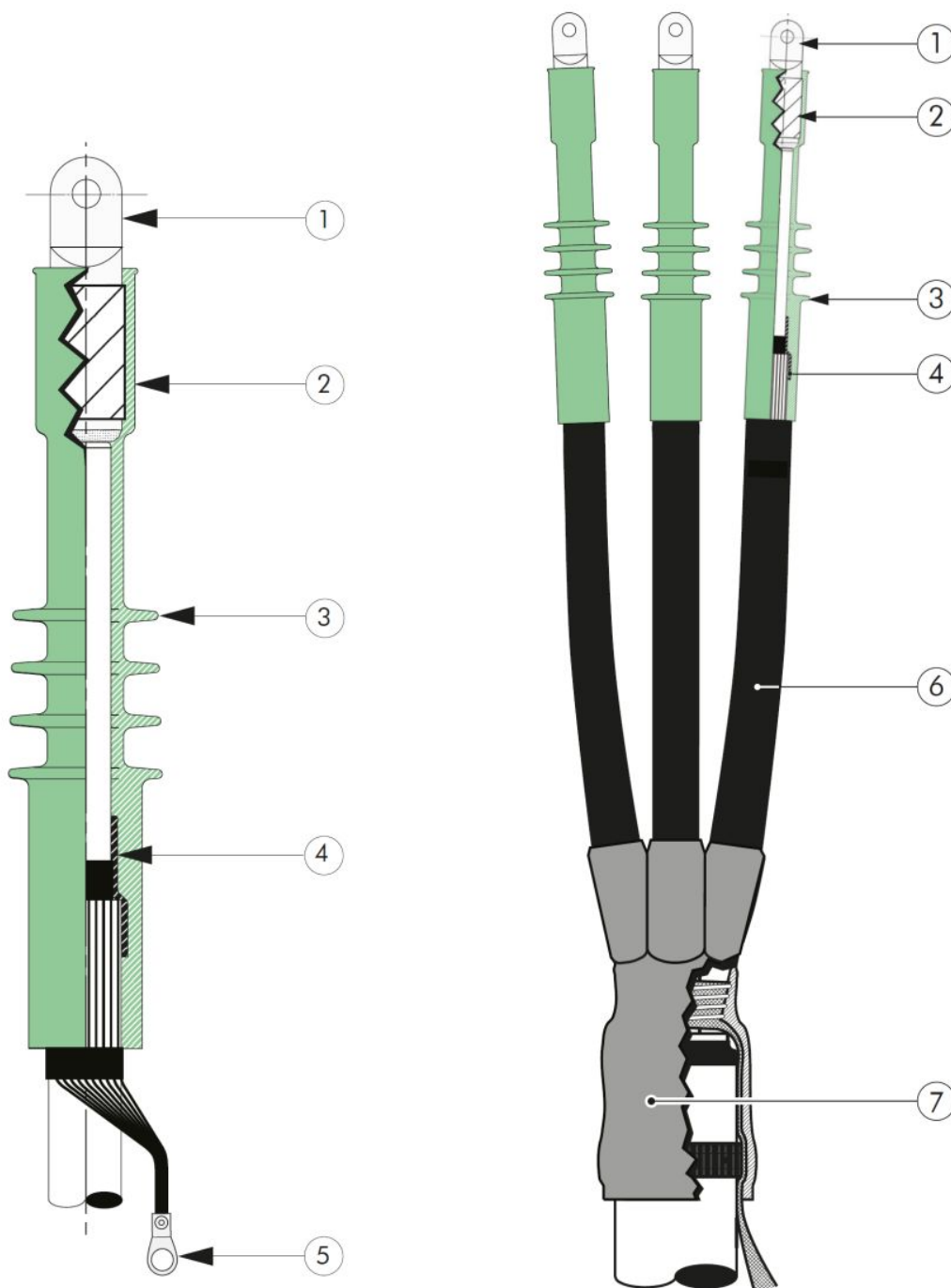
The AIS 20 termination is suitable for indoor installation on polymeric insulated medium voltage cables with extruded easy strip conductive screen or bonded extruded conductive screen. With this high quality silicone termination, a wide range of cross-sections is covered per voltage level.

Another benefit given by using the AIS termination is the quick and easy assembly. The conductor can be connected with mechanical cable lugs. The termination is available with additional splitting accessories for three-core, copper wire screened or copper tape screened and armored cables.

Specifications and standards

Meets the requirements of CENELEC HD 629.1

DRAWING AIS



DESIGN AIS

1. Longitudinally sealed compression cable lug
2. High flexibility silicone rubber housing, ensuring a perfect fit to the cable even during load changes
3. Integrated conductive rubber insert
4. Earth cable lug
5. Heat-shrinkable tube
6. Heat-shrinkable break-out

TECHNICAL DATA AIS

Termination type	Nominal voltage U_0/U (kV)	Conductor cross-section (mm ²) ¹⁾	
		min.	max.
AIS 20	6/10	150	300 ²⁾
AIS 20	12/20	70	300 ²⁾

¹⁾ Other cross-sections are available on request.

²⁾ When using mechanical cable lugs for conductor cross-section greater than 240 mm², an additional sealing element is required.

KIT CONTENTS AIS

- 3 termination housings
- 3 mechanical cable lugs for the conductor
- 3 mechanical screen wire cable lugs
- Installation instructions
- Silicone grease
- Assembly incidentals
- Additional sealing element for 300 mm² application

ORDERING INSTRUCTIONS AIS

Table 1 - Classification and dimensions AIS

Table 2 - Ordering part number AIS

Indicate the part number when ordering (see table).

Order example:

1 AIS 20 kit for 12/20 kV, for 70-240 mm² with mechanical cable lug (palm hole diameter 13 mm).

Order according to table 2: 1 kit – AIS 20 with part number 500027.

Note:

The classification does only apply for polymeric insulated XLPE cables (dimensions acc. to DIN VDE 0276-620) with extruded conductive screen. Please contact our sales representative, when using other cable types.

³⁾The indicated diameter is a mould dimension. Depending on the conductor cross-section used, a deviation of up to +5 mm is possible.

⁴⁾ Supplied with additional sealing element.

TABLE 1 - CLASSIFICATION AND DIMENSIONS AIS

Nominal voltage U_0/U (kV)	Conductor cross-section (mm ²)		Dia. over core insulation (mm)		Number of sheds	L (mm)	Dia. D ³⁾ (mm)	Termination type
	min.	max.	min.	max.				
6/10	150	240	20.9	35.0	4	270	53	AIS 20
	150	300						
12/20	70	240						
	95	300						

DIMENSIONS AIS

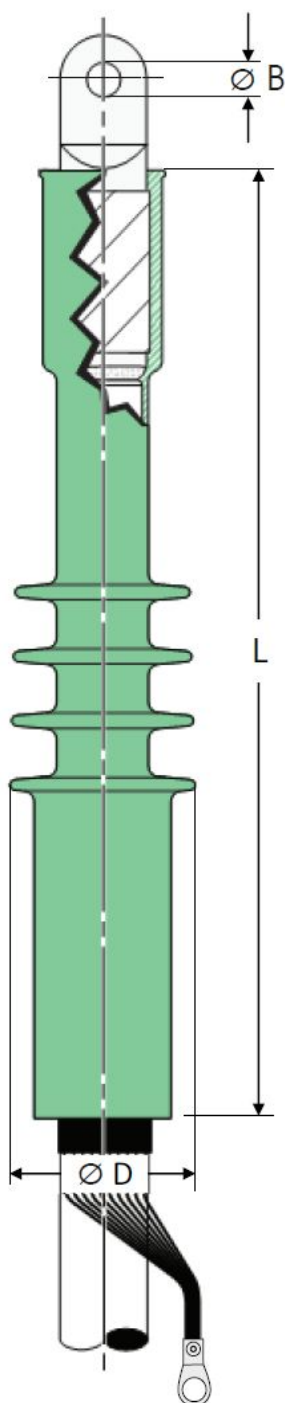
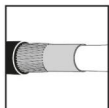
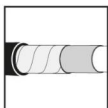




TABLE 2 - ORDERING PART NUMBER AIS

Conductor cross-section (mm²)	Dia. over core insulation (mm)		Ordering part number (1 Kit = 3 Items)		Termination type (Kit)
			with mechanical cable lug		
	min.	max.	Dia. B=13 mm	Dia. B=17 mm	
Nominal voltage U ₀ /U (U _m) 6/10 (12) kV					
150 185 240	20.9	35.0	500025	500293	AIS 20
150 185 240 300			500292 ⁴⁾	500026 ⁴⁾	
Nominal voltage U ₀ /U (U _m) 12/20 (24) kV					
70 95 120 150 185 240	20.9	35.0	500027	500268	AIS 20
95 120 150 185 240 300			500294 ⁴⁾	500028 ⁴⁾	

PICTOGRAMS AIS

 <p>For use with copper wire screened cables no earthing device is necessary.</p>	 <p>For use with copper tape screened cables. Order : KIT MT.</p>	 <p>For use with three-core cables please contact our representative.</p>	 <p>For use with other cable types please contact our representative.</p>
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TECHNICAL INSTRUCTIONS AND APPLICATION INFORMATION (ACCESSORIES)

The data given were determined diligently, but do not release our customers of the duty to carry out tests themselves in order to check the suitability of the products delivered by us for the intended use. We reserve the right to modify characteristic and performance data according to the present state of technology. Processing and use of the products cannot be controlled by us and are therefore exclusively in your field of responsibility.

Our products meet the VDE standards respectively correspond to DIN pages and IEC recommendations.

Attention: Before first design in please contact manufacturer.

The products, described in this catalogue, are designed for connection of bare energy cable conductors (Class 1 & 2) with description of round solid (RE), round stranded (RM), as well as sector solid (SE), sector stranded (SM) and round stranded compacted (RMV) for conductor temperatures up to 90 °C. All conductor filling materials like tapes, yarn, powder or similar need to be completely removed before the installation. A check on basis of the actual existing conductor dimensions by the user is indispensable. This applies also for the application of Class 6 conductors or other special conductor types.

Impact wrenches have to be approved by Nexans! Depending on different conductor material or conductor type, indicated values may differ from test values acc. to IEC 61238-1. The use of fine stranded conductors has to be approved by Nexans Power Accessories Germany GmbH.

Our responsibilities are only those listed in the latest edition of "General terms and conditions for the supply of products and services of the electrical and electronics industry". We can provide a copy on request.

Our products are mainly delivered in cartons. We only use package materials able to be recycled due to the latest packing system. Collapsible cardboard boxes are not taken back. Please try to order complete standard packages.

Reprinting, even partial, only with special allowance. We reserve the right to alter or modify the characteristics described. Illustrations and drawings may only show a close reflection and are not decisive. The weights are approximate and include the carton package. This catalogue substitutes all former editions. Types or versions not part of the catalogue are available on request.

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