

AIS Indoor slip-on termination

up to 24 kV

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.

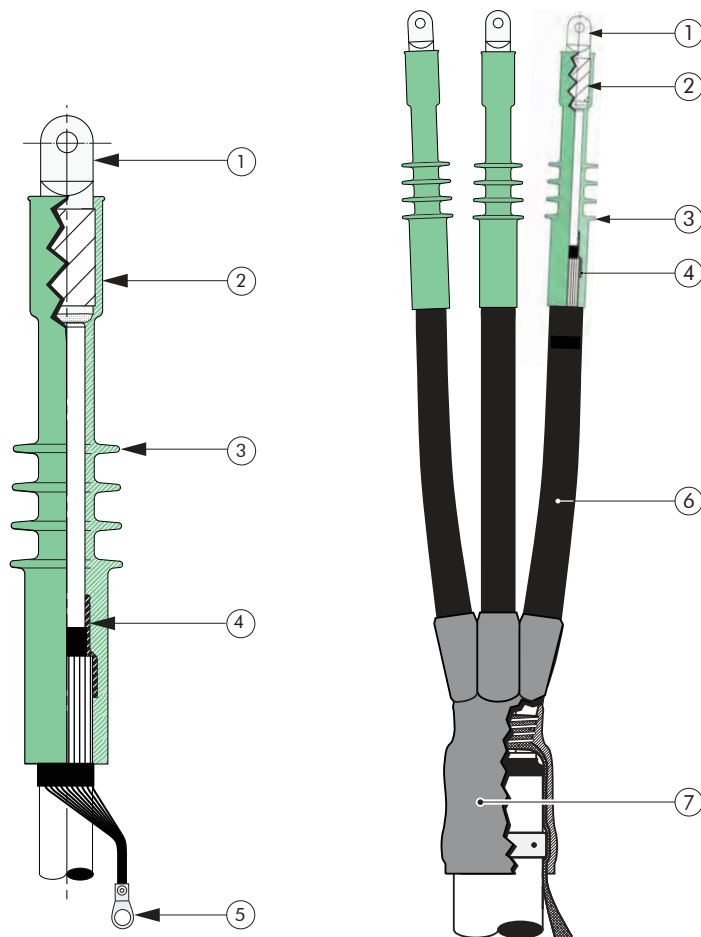
Another benefit given by using the AIS termination is the quick and easy assembly. The conductor can be connected with mechanical cable lugs. The termination is available with additional splitting accessories for three-core, copper wire screened or copper tape screened and armored cables.

$U_0 / U (U_m)$

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

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



Specifications and standards

Meets the requirements of CENELEC HD 629.1

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

- 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

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.

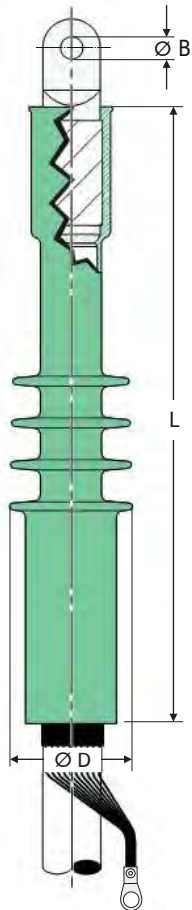


Table 1 - Classification and dimensions

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	20.9	35.0	4	270	53	AIS 20
	95	300						

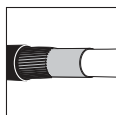
Table 2 - Ordering part number

Conductor cross-section (mm ²)	Dia. over core insulation (mm)		Ordering part number (1 Kit = 3 Items)		Termination type (Kit)
	min.	max.	with mechanical cable lug		
			Dia. B=13 mm	Dia. B=17 mm	
Nominal voltage U_0/U (U_m) 6/10 (12) kV					
150	20.9	35.0	500025	500293	AIS 20
185					
240					
150	20.9	35.0	500292 ⁴⁾	500026 ⁴⁾	AIS 20
185					
240					
300					
Nominal voltage U_0/U (U_m) 12/20 (24) kV					
70	20.9	35.0	500027	500268	AIS 20
95					
120					
150					
185					
240	20.9	35.0	500294 ⁴⁾	500028 ⁴⁾	AIS 20
95					
120					
150					
185					
240					
300					

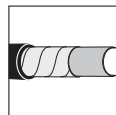
³⁾ The indicated diameter is a mould dimension. Depending on the conductor cross-section used, a deviation of up to +5 mm is possible.

⁴⁾ Supplied with additional sealing element.

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



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



For use with copper tape screened cables.
Order : KIT MT.



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



For use with other cable types please contact our representative.

Technical instructions and application information

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.

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