

AFS

Outdoor slip-on termination

up to 24 kV

Application

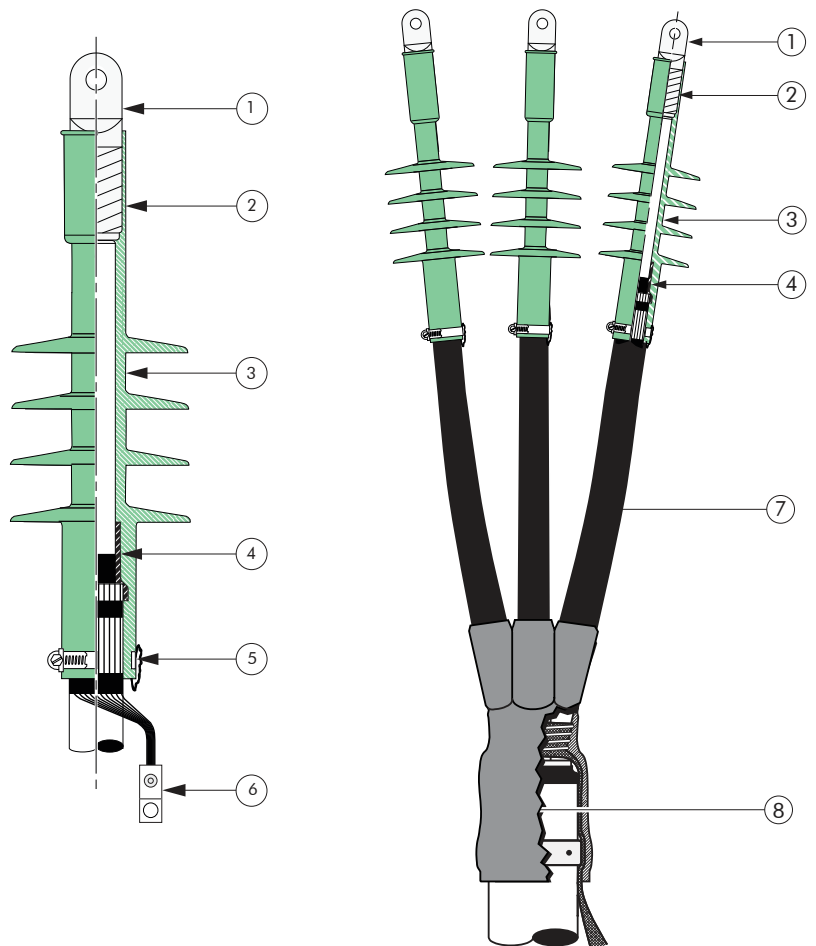
AFS terminations are suitable for outdoor installation on polymeric insulated medium voltage cables with extruded easy strip conductive screen or bonded extruded conductive screen. This high-quality silicone termination covers a large range of cross-sections with just two sizes per voltage level. Another

benefit is the quick and easy assembly. The conductor is connected with mechanical cable lugs. Available with additional splitting accessories for three-core 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
3. High flexibility silicone rubber housing, ensuring a perfect fit to the cable even during load changes
4. Integrated conductive rubber insert
5. Earthing clamp
6. Earthing cable lug
7. Heat-shrinkable tube
8. Heat-shrinkable break-out



Specifications and standards

This termination meets the requirements of CENELEC HD 629.1.

Termination type	Nominal voltage U_0 / U (kV)	Conductor cross-section (mm ²) ¹⁾	
		min.	max.
AFS 20	6/10	70	300
AFS 20	12/20	25	300

¹⁾ Other cross-sections are available on request.

Kit contents

- 3 termination housings
- 3 mechanical cable lugs for the conductor
- 3 mechanical screen wire cable lugs
- Installation instructions
- Silicone grease
- Assembly incidentals

Ordering instructions

Indicate the part number when ordering (see table).

Order example:

1 AFS 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 – AFS 20 size 2 with part number 501520.

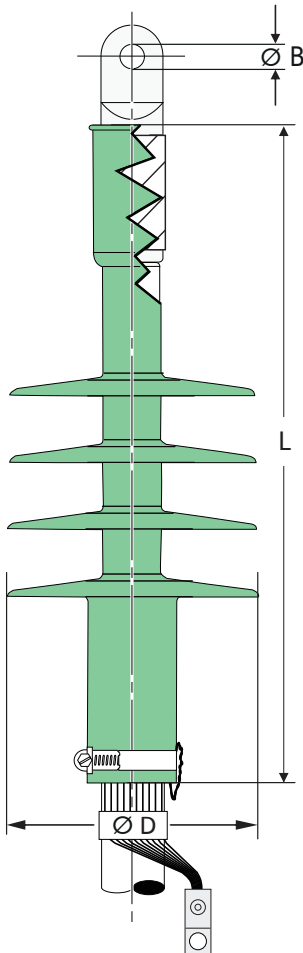


Table 1 - Classification and dimensions

Nominal voltage U_0/U (kV)	Conductor cross-section (mm ²)		Dia. over core insulation (mm)		L (mm)	Dia. D ²⁾ (mm)	Termination type
	min.	max.	min.	max.			
6/10	70	95	17.0	27.0	295	~100	AFS 20-1
12/20	25	95					
6/10	150	240	20.9	35.0	325		AFS 20-2
12/20	70	240					
	150	300					
	95	300					

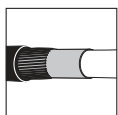
Table 2 - Ordering part number

Conductor cross-section (mm ²)	Dia. over core insulation (mm)		Ordering part number (1 Kit = 3 Items)				Termination type (Kit)		
			with mechanical cable lug		Dia. B 13 mm	Dia. B 17 mm			
	min.	max.							
Nominal voltage U_0/U (U_m) 6/10 (12) kV									
70	17.0	27.0	501513	501514 ³⁾	501523	501524 ³⁾	AFS 20-1		
95									
120									
150	20.9	35.0	501515	501517	501525	501527	AFS 20-2		
185									
240									
300									
Nominal voltage U_0/U (U_m) 12/20 (24) kV									
25	17.0	27.0	501518	501519	501621	501622	AFS 20-1		
50									
70									
95									
120									
70	20.9	35.0	501520	501521	501522	501623	501624	501625	AFS 20-2
95									
120									
150									
185									
240									
300									

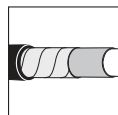
²⁾ Cross-section 25 mm² according to DIN VDE 0276-620 unavailable.

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

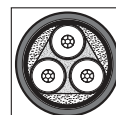
Note: The classification does only apply for polymeric insulated XLPE cables (dimensions acc. to DIN VDE 0276 620) with extruded conductive screen and stranded conductors.



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.

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