

GTS1

Heat-shrinkable single core XLPE straight joint

Up to 42 kV

U₀/U (U_m)

6/10 (12) kV

12/20 (24) kV

18/30 (36) kV

20.8/36 (42) kV

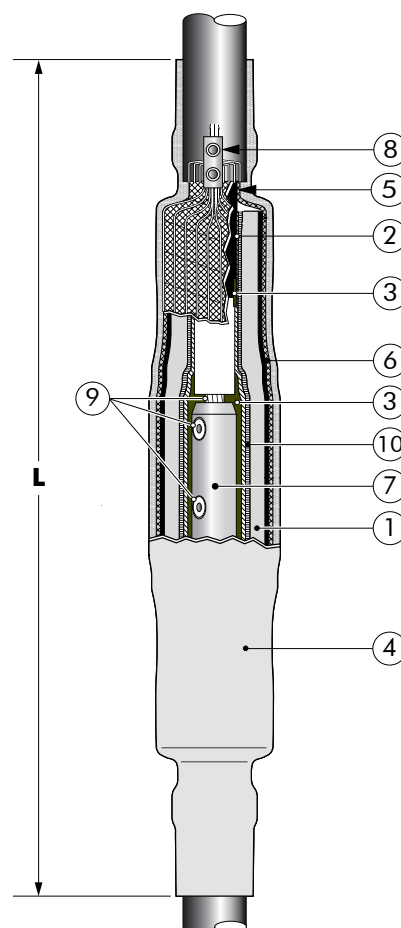
Application

The heat-shrinkable straight joint type GTS1 is suitable for jointing polymeric insulated medium voltage cables with extruded easy strip conductive screen or bonded extruded conductive screen. With regards to the screw type conductor connector, supplied in the joint kit, jointing of cables

with different conductor sizes or conductor materials becomes fast and easy. This heat-shrinkable joint is fully screened, submersible and suitable to be directly buried.

Design

1. Dual wall tube
2. Stress control tube
3. Stress control mastic
4. Overall protection tube
5. Sealing mastic
6. Screen continuity (copper mesh)
7. Conductor connector (supplied on request crimp or mechanical type)
8. Ferrule for screen wires
9. Sealing mastic
10. Insulation sleeve (only for 36GTS1 and 42GTS1)



Specifications and standards

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

Straight joint type	Nominal voltage U ₀ /U (kV)	Length L (mm)	Conductor sizes (mm ²)	
			min.	max.*
17GTS1	6/10	750-1000	25	1000
24GTS1	12/20	1000	35	1000 (1200)
36GTS1	18/30	1000	50	1000 (1200)
42GTS1	20.8/36	1000-1200	50	1000

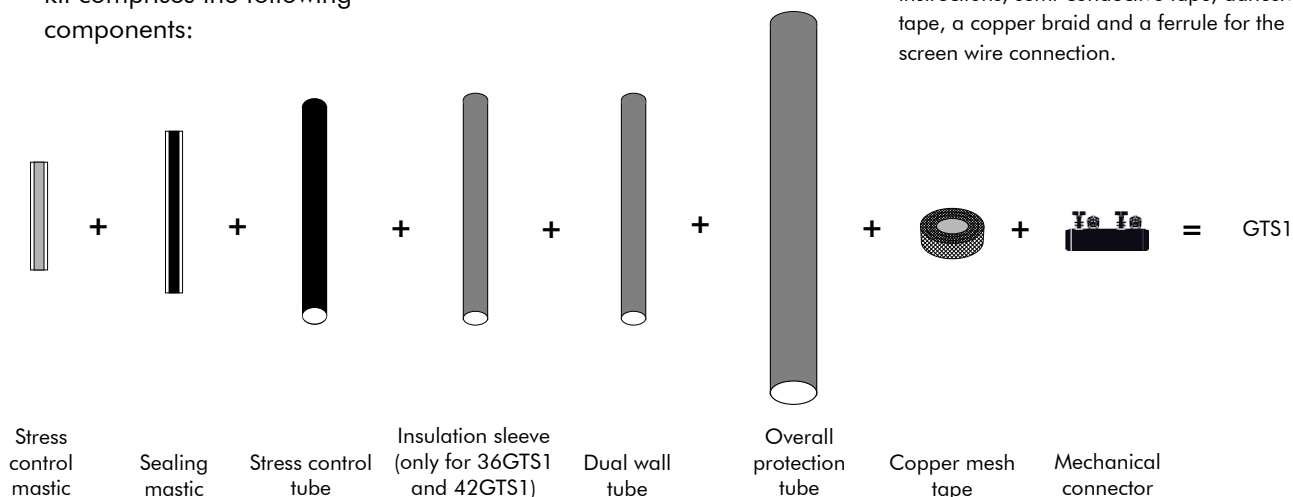
* Other cross-sections (up to 1.200 mm²) on request.

The data given were determined diligently, they are however only guide values and 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. Processing and use of the products cannot be controlled by us and are therefore exclusively in your field of responsibility.

Kit contents

The complete GTS1 joint kit comprises the following components:

The kit also comprises installation instructions, semi-conductive tape, adhesive tape, a copper braid and a ferrule for the screen wire connection.



Ordering instructions

Select the straight joint type corresponding to both system voltage and conductor cross-section.

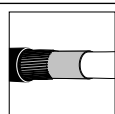
Example:

Heat-shrinkable straight joint type 24GTS1.240 for XLPE cable 12/20 kV
70-240 mm² conductor cross-section.
Order number: 52612

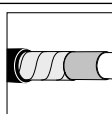
Note:

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

Straight joint																			
Straight joint type	Nominal voltage U _o /U (kV)	Conductor cross-section (mm ²)		Conductor cross-section (mm ²)															
				25	35	50	70	95	120	150	185	240	300	400	500	630	800	1000	
17GTS1.50	6/10	25	50	52605															
17GTS1.95	6/10	50	95			52606													
17GTS1.240	6/10	95	240					52607											
17GTS1.400	6/10	240	400							52608									
17GTS1.630	6/10	400	630											52609					
17GTS1.1000	6/10	800	1000															53504	
24GTS1.50	12/20	35	50	52610															
24GTS1.240	12/20	50	150			52611													
24GTS1.240	12/20	70	240			52612													
24GTS1.400	12/20	185	400							52613									
24GTS1.630	12/20	400	630											52615					
24GTS1.1000	12/20	630	1000															53661	
36GTS1.95	18/30	50	95			52616													
36GTS1.240	18/30	70	240			52617													
36GTS1.500	18/30	185	400								52619								
36GTS1.800	18/30	400	630									52620							
36GTS1.1000	18/30	630	1000															59209	
42GTS1.95	20.8/36	50	95			57225													
42GTS1.150	20.8/36	50	150			57226													
42GTS1.240	20.8/36	95	240					59859											
42GTS1.400	20.8/36	185	400							57227									
42GTS1.630	20.8/36	400	630											57228					
42GTS1.1000	20.8/36	630	1000															57229	



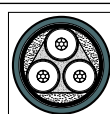
For use with copper wire screened cables. No further earthing device is necessary.



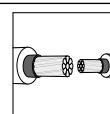
For use with copper tape screened cables, endorse "A" to the part number (e.g. 24GTS1.240A).



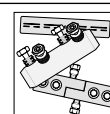
For use with other cable types. Please contact our representative.



For use with three-core cables: see GTS3.



Joining cables of different sizes possible.



Can be used with all common types of conductor connectors.