



Nexans



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Power cables accessories  
for low, medium and low-high  
voltage



# NEXANS ITALIA SPA

Head Office and Operative site :  
Via Paracelso 2- Palazzo Liocorno ingresso1 Centro Direzionale Colleoni- 20041  
Agrate Brianza (MB) - ITALY

This is a multi-site certificate, additional site are listed in the appendix to this certificate  
Bureau Veritas Italia spa certify that the Management System of the  
above organisation has been audited and found to be in accordance  
with the requirements of the management system standards detailed below

## ISO 9001:2008

Scope of certification

Design, manufacturing, testing and trading of : Energy cables, telecom copper  
and fiber optic cables, compounds, energy cables accessories ( joints,  
terminations, mastics and heat shrinkable products) for indoor and outdoor  
applications. Process management of installation and junction of energy and  
telecom cables for aerial and underground applications. Product categories 12  
and 20 .

Certification awarded in conformity with the requirements of ACCREDIA RT-05  
EA Sector(s): 14,19,28  
Certification cycle start date: 07 July 2014

Subject to the continued satisfactory operation of the organisation's Management  
System, this certificate expires on: 19 July 2017  
Original certification date: 27 July 1994

Certificate No. IT237405  
Version 1, Revision date: 07 July 2014

*Patrizia Caporali*  
Patrizia Caporali - Quality Technical Committee

Certification body address:  
Bureau Veritas Italia S.p.A., Via Miramare, 15 - 20126 Milano, Italia

The present certification is to be intended as referred to the general management aspects of the  
company as a whole and may be used for the purposes of qualification of construction companies  
according to Art. 40 of the Law 12 April 2008 and subsequent modifications  
and to D.P.R. 2 October 2010, n. 207  
To check the certificate validity please refer to website: www.bureauveritas.it  
Further clarifications regarding the scope of this certificate and the applicability  
of standard's requirements may be obtained by consulting the organization at  
registro.certificazioni@bureauveritas.com



# NEXANS ITALIA SPA

Head Office:  
Via Paracelso, 2 Palazzo Liocorno Ingresso 1  
Centro Direzionale Colleoni - 20864 AGRATE (MB) - IT

This is a multi-site certificate, additional site details are listed in the appendix to this  
Bureau Veritas Certification Holding SAS - UK Branch certify that the  
Management System of the above organization has been audited and  
be in accordance with the requirements of the management system s  
detailed below

## ISO 14001:2004

Scope of certification

Design, manufacturing and trading of accessories (joints  
terminations, connectors, mastics and heat shrinkable produc  
energy cables obtained through extrusion, expansion, moldin  
plastics, resin and mastics process.

EA Sector(s): 14, 19, 28  
Certification cycle start date: 26 May 2015

Subject to the continued satisfactory operation of the organization's Management  
System, this certificate expires on: 14 June 2018

Original certification date: 16 June 2006

Certificate No. IT237646/UK

date: 26 May 2015



# NEXANS ITALIA SPA

Registered Site:  
Via Paracelso 2, Palazzo Liocorno, Ingresso 1,  
Centro Direzionale Colleoni - 20041 Agrate Brianza (MB)

This is a multi-site certificate, additional site details are listed  
in the appendix to this certificate

Bureau Veritas Certification Holding SAS - UK Branch certify that the Management  
System of the above organization has been audited and found to be in accordance  
with the requirements of the management system standards detailed below

Standards

## OHSAS 18001:2007

Scope of certification

Design, manufacture and trading of energy cables, telecommunication cables in  
copper and fiber optics obtained through drawing, stranding, extrusion, shielding and  
armouring process. Compounds obtained by compounding and extrusion process.  
Design, manufacturing and trading of accessories (joints, terminations, connectors,  
mastics and heat shrinkable products) for energy cables obtained through extrusion,  
expansion, molding of plastics, resin and mastics process. Management of installation  
and junctions process of (MV/HV) energy and telecom cables for aerial and  
underground applications with supervision the excavations and horizontal drillings.

EA sector(s): 19, 14, 28

Certification cycle start date: 24 January 2015

Subject to the continued satisfactory operation of the organization's Management  
System, this certificate expires on: 23 January 2018

Original certification date: 24 January 2016

Certificate No. IT268792/UK

Version N. 1 Revision date: 24 January 2015

*Lodovico Jucker*  
Lodovico Jucker - Local Technical Manager  
Signed on behalf of BUREAU VERITAS UK Branch

Certification body address: 60 Prescot Street, London E1 8HS, United Kingdom  
Local office: Bureau Veritas Italia S.p.A. - Divisione Certificazione -  
Via Miramare, 15 - 20126 Milano - ITALIA

Further clarifications regarding the scope of this certificate and the applicability  
of the management system requirements may be obtained by consulting the organization  
To check this certificate validity please call +39 02-278611



# CERTIFICATE

awarded to  
Nexans Italia s.p.a.  
Contrada Tealio 181/B  
63036 OFFIDA (AP)  
Italy

BUREAU VERITAS CERTIFICATION  
confirms, as an IRIS approved certification body, that the Management System of the  
above organization has been assessed and found to be in accordance with the

International Railway Industry Standard (IRIS)  
Revision 02, May 2009  
for the activity of Design and development & Manufacturing  
for the scope of certification 20 (Single railway components)  
power and telecom cable accessories (joints, terminations, connectors, mastics and heat  
shrinkable products)

Certificate valid until: 18/09/2017

Certificate valid from: 17/08/2014

*Yuh*  
This certificate was modified on: 02/05/2014  
Certificate Register-No.: ITA-IR - 000 440

\* Providing that the subsequent surveillance audits are successful before the anniversary of this validity date.  
This document has been produced by the Audit-Tool V. 4.1.0.01  
Issued by Bureau Veritas Certification, on 02/05/2014  
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1/2

# TTGI1

HEAT-SHRINKABLE MV INDOOR TERMINATION FOR SINGLE CORE POLYMERIC CABLES WITH Cu WIRE OR TAPE SCREEN

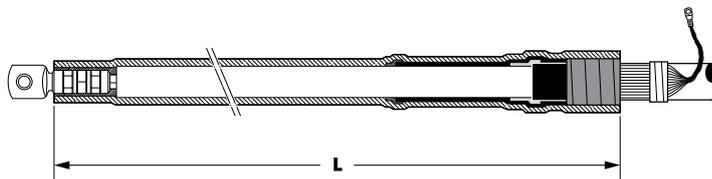
Up to 20,8/36 (42) kV

### Application

TTGI1 heat-shrinkable medium voltage terminations are designed for single core unarmored plastic insulated cables with Cu wire/tape screen.

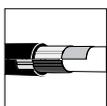
### Technical description

The TTGI indoor terminations utilize stress control tubing together with stress control mastic to control the electric field. The lug, mechanical or crimp, is covered with anti-tracking mastic to create complete environmental seal. Anti-tracking mastic is also used to seal the earth connection at the bottom of the termination. GT2 anti-tracking tube completes the termination.

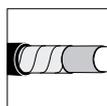


Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

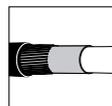
| voltage<br>Um kV | type          | application range<br>(mm <sup>2</sup> ) | L<br>(mm) |
|------------------|---------------|---|-----------|
| 17               | 17TTGI1.50i   | 25-50                                   | 480       |
| 17               | 17TTGI1.120i  | 70-120                                  | 480       |
| 17               | 17TTGI1.300i  | 150-300                                 | 480       |
| 17               | 17TTGI1.630i  | 400-630                                 | 480       |
| 17               | 17TTGI1.1200i | 630-1200                                | 480       |
| 17               | 17TTGI1.1600i | 1200-1600                               | 480       |
| 24               | 24TTGI1.95i   | 25-95                                   | 520       |
| 24               | 24TTGI1.240i  | 50-240                                  | 520       |
| 24               | 24TTGI1.630i  | 300-630                                 | 520       |
| 24               | 24TTGI1.1200i | 630-1200                                | 520       |
| 36               | 36TTGI1.150i  | 35-150                                  | 620       |
| 36               | 36TTGI1.300i  | 150-300                                 | 620       |
| 36               | 36TTGI1.630i  | 400-630                                 | 620       |
| 36               | 36TTGI1.1200i | 630-1200                                | 620       |
| 42               | 42TTGI1.150i  | 50-150                                  | 680       |
| 42               | 42TTGI1.300i  | 150-300                                 | 680       |
| 42               | 42TTGI1.400i  | 185-400                                 | 680       |
| 42               | 42TTGI1.630i  | 400-630                                 | 680       |
| 42               | 42TTGI1.1000i | 600-1000                                | 680       |



For cables with AL foil screen/ vapor screen please contact our sales office.



Please add the letter "A" at the end of the product code for cables with Cu tape screen.



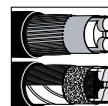
Earth kit included for cables with wire screens.



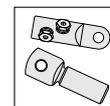
For other cable types please contact our sales office.



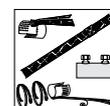
Trifurcating kits "TK" available separately. Please see available sizes of specific catalogue page.



Various earth connection design solutions exist for armoring. For exact details contact our sales office.



Design accommodates various lug types.



Various earth connection kits are available for screen connection. For exact details contact our sales office.

# TTGE1

HEAT-SHRINKABLE MV OUTDOOR TERMINATION FOR SINGLE CORE POLYMERIC CABLES WITH Cu WIRE OR TAPE SCREEN

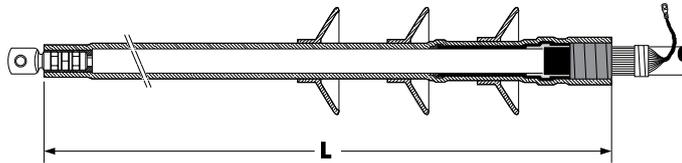
Up to 20,8/36 (42) kV

### Application

TTGE1 heat-shrinkable medium voltage terminations are designed for single core unarmored plastic insulated cables with Cu wire/tape screen.

### Technical description

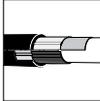
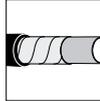
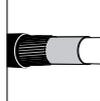
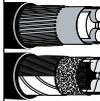
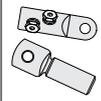
The TTGE outdoor terminations utilize stress control tubing together with stress control mastic to control the electric field. The lug, mechanical or crimp, is covered with anti-tracking mastic to create complete environmental seal. Anti-tracking mastic is also used to seal the earth connection at the bottom of the termination. GT2 anti-tracking tube and anti-tracking rain sheds complete the termination.



Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

| voltage<br>Um kV | type          | application range<br>(mm <sup>2</sup> ) | L<br>(mm) |
|------------------|---------------|---|-----------|
| 17               | 17TTGE1.50i   | 25-50                                   | 480       |
| 17               | 17TTGE1.120i  | 70-120                                  | 480       |
| 17               | 17TTGE1.300i  | 150-300                                 | 480       |
| 17               | 17TTGE1.630i  | 400-630                                 | 480       |
| 17               | 17TTGE1.1200i | 630-1200                                | 480       |
| 17               | 17TTGE1.1600i | 1200-1600                               | 480       |
| 24               | 24TTGE1.95i   | 25-95                                   | 520       |
| 24               | 24TTGE1.240i  | 50-240                                  | 520       |
| 24               | 24TTGE1.630i  | 300-630                                 | 520       |
| 24               | 24TTGE1.1200i | 630-1200                                | 520       |
| 36               | 36TTGE1.150i  | 35-150                                  | 620       |
| 36               | 36TTGE1.300i  | 150-300                                 | 620       |
| 36               | 36TTGE1.630i  | 400-630                                 | 620       |
| 36               | 36TTGE1.1200i | 630-1200                                | 620       |
| 42               | 42TTGE1.150i  | 50-150                                  | 680       |
| 42               | 42TTGE1.300i  | 150-300                                 | 680       |
| 42               | 42TTGE1.400i  | 185-400                                 | 680       |
| 42               | 42TTGE1.630i  | 400-630                                 | 680       |
| 42               | 42TTGE1.1000i | 630-1000                                | 680       |



|   |   |  |   |   |   |   |   |  |
|---|---|--|---|---|---|---|---|--|
|  |  |       |  |  |                 |                      |  |                           |
| Designed for outdoor application.   | For cables with AL foil screen/ vapor screen please contact our sales office.       | Please add the letter "A" at the end of the product code for cables with Cu tape screen. | Earth kit included for cables with wire screens.                                    | For other cable types please contact our sales office.                              | Trifurcating kits "TK" available separately. Please see available sizes of specific catalogue page. | Various earth connection design solutions exist for armoring. For exact details contact our sales office. | Design accommodates various lug types.  | Various earth connection kits are available for screen connection. For exact details contact our sales office. |

# TTGI3 W

HEAT-SHRINKABLE MV INDOOR TERMINATION FOR THREE CORE POLYMERIC CABLES W. STA OR SWA ARMOR  
Up to 20,8/36 (42) kV

### Application

TTGI3 W heat-shrinkable indoor terminations are designed for armored three core plastic insulated cables with Cu wire or tape screen.

### Technical description

The TTGI indoor terminations utilize stress control tubing together with stress control mastic to control the electric field.

The lug, mechanical or crimp, is covered with anti-tracking mastic to create a complete environmental seal.

Non tracking breakout seals the cable crutch area.

Anti-tracking mastic is used to seal the earth and armour connection at the bottom of the termination.

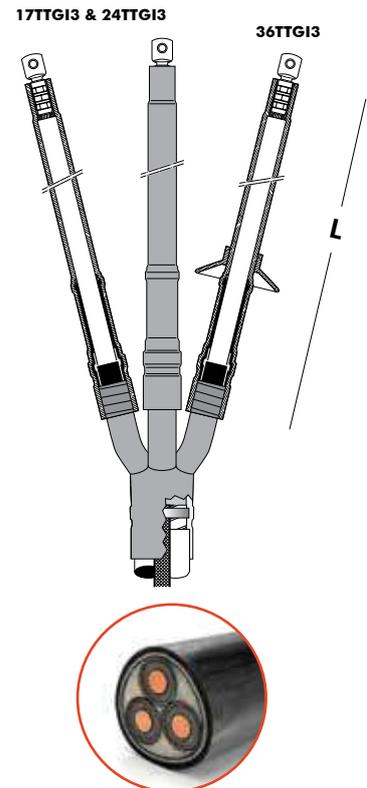
GT2 anti-tracking tube completes the termination.

Right angle or straight heat-shrinkable boots are available on request.



Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

| voltage<br>Um kV | type         | application range<br>(mm <sup>2</sup> ) | L<br>(mm) |
|------------------|--------------|---|-----------|
| 7,2              | 6TTGI3.50W   | 25-50                                   | 480       |
| 7,2              | 6TTGI3.150W  | 70-120                                  | 480       |
| 7,2              | 6TTGI3.240W  | 150-300                                 | 480       |
| 17               | 17TTGI3.50W  | 25-50                                   | 480       |
| 17               | 17TTGI3.120W | 70-120                                  | 480       |
| 17               | 17TTGI3.300W | 150-300                                 | 480       |
| 17               | 17TTGI3.630W | 400-630                                 | 480       |
| 24               | 24TTGI3.95W  | 25-95                                   | 580       |
| 24               | 24TTGI3.240W | 50-240                                  | 580       |
| 24               | 24TTGI3.630W | 300-630                                 | 580       |
| 36               | 36TTGI3.120W | 35-120                                  | 960       |
| 36               | 36TTGI3.300W | 150-300                                 | 960       |
| 36               | 36TTGI3.400W | 240-400                                 | 960       |
| 42               | 42TTGI3.120W | 35-120                                  | 1200      |
| 42               | 42TTGI3.300W | 150-300                                 | 1200      |
| 42               | 42TTGI3.400W | 240-400                                 | 1200      |



|   |  |  |  |  |   |  |  |
|---|--|--|--|--|---|--|--|
|   |  |  |  |  |   |  |  |
| For cables with AL foil screen/ vapor screen please contact our sales office. | Earth kit included for cables with tape screens. | Earth kit included for cables with wire screens. | For other cable types please contact our sales office. | Various tail length exist, please check requirements of your end customer and inform our sales office accordingly. | Various earth connection design solutions exist for armoring. For exact details contact our sales office. | Design accommodates various lug types. | Various earth connection kits are available for screen connection. For exact details contact our sales office. |

# TTGE3 W

HEAT-SHRINKABLE MV OUTDOOR TERMINATION FOR THREE CORE POLYMERIC CABLES W. STA OR SWA ARMOR  
Up to 20,8/36 (42) kV

### Application

TTGE3 W heat-shrinkable outdoor terminations are designed for armored three core plastic insulated cables with Cu wire or tape screen.

### Technical description

The TTGE outdoor terminations utilize stress control tubing together with stress control mastic to control the electric field.

The lug, mechanical or crimp, is covered with anti-tracking mastic to create complete environmental seal.

Non tracking breakout seals the cable crutch area.

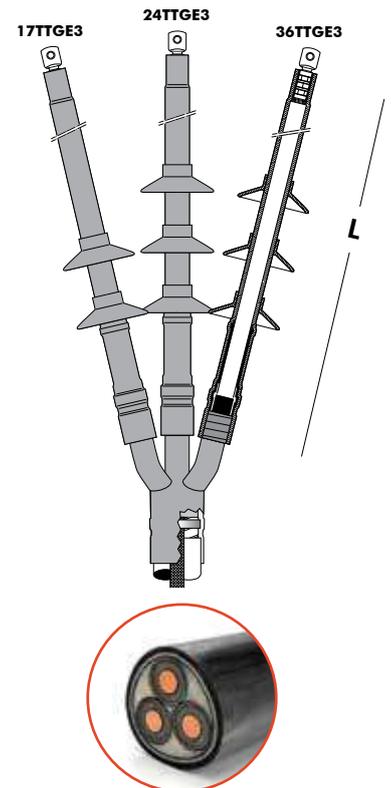
Anti-tracking mastic is used to seal the earth and armour connection at the bottom of the termination.

GT2 anti-tracking tube and DPA anti-tracking rain sheds complete the termination.



Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

| voltage<br>Um kV | type         | application range<br>(mm <sup>2</sup> ) | L<br>(mm) |
|------------------|--------------|---|-----------|
| 7,2              | 6TTGE3.50W   | 25-50                                   | 580       |
| 7,2              | 6TTGE3.150W  | 70-120                                  | 580       |
| 7,2              | 6TTGE3.240W  | 150-300                                 | 580       |
| 17               | 17TTGE3.50W  | 25-50                                   | 580       |
| 17               | 17TTGE3.120W | 70-120                                  | 580       |
| 17               | 17TTGE3.300W | 150-300                                 | 580       |
| 17               | 17TTGE3.630W | 400-630                                 | 580       |
| 24               | 24TTGE3.95W  | 25-95                                   | 680       |
| 24               | 24TTGE3.240W | 50-240                                  | 680       |
| 24               | 24TTGE3.630W | 300-630                                 | 680       |
| 36               | 36TTGE3.120W | 35-120                                  | 1200      |
| 36               | 36TTGE3.300W | 150-300                                 | 1200      |
| 36               | 36TTGE3.400W | 240-400                                 | 1200      |
| 42               | 42TTGE3.120W | 35-120                                  | 1200      |
| 42               | 42TTGE3.300W | 150-300                                 | 1200      |
| 42               | 42TTGE3.400W | 240-400                                 | 1200      |



|                                   |   |  |  |  |  |   |  |  |
|-----------------------------------|---|--|--|--|--|---|--|--|
|                                   |   |  |  |  |  |   |  |  |
| Designed for outdoor application. | For cables with AL foil screen/ vapor screen please contact our sales office. | Earth kit included for cables with tape screens. | Earth kit included for cables with wire screens. | For other cable types please contact our sales office. | Various tail length exist, please check requirements of your end customer and inform our sales office accordingly. | Various earth connection design solutions exist for armoring. For exact details contact our sales office. | Design accommodates various lug types. | Various earth connection kits are available for screen connection. For exact details contact our sales office. |

## GTS1 W

HEAT-SHRINKABLE MV STRAIGHT JOINTS FOR UNARMORED SINGLE CORE POLYMERIC CABLES WITH Cu WIRE OR TAPE SCREEN  
up to U<sub>max</sub> 20,8/36 (42) kV

### Application

GTS1 heat-shrinkable straight joints are designed for unarmored, plastic insulated cables with Cu wire or tape screen, to accommodate either crimped or mechanical connectors.

### Technical description

Strips of black mastic are used to fill the gap between the connector and the cable insulation.

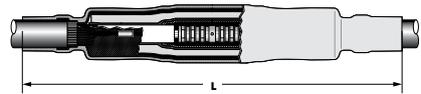
The screen cut and connector are covered by stress grading mastic.

Stress control tubing covers and overlaps the connector and screen cut area. Dual wall screened insulating tube restores the insulation and screen, up to 24kV.

For voltages 36 & 42kV an additional GT2 insulating tubing is applied over the stress control tubing.

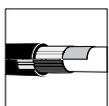
The outer sheath is restored with medium or heavy wall adhesive lined tubing depending on the market and customer specifications.

Screen connection material is included in the kit.

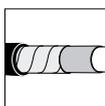


Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

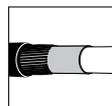
| voltage<br>Um kV | type         | application range<br>sez. (mm <sup>2</sup> ) | L<br>(mm) |
|------------------|--------------|--|-----------|
| 17               | 17GTS1.95W   | 25-95  | 600       |
| 17               | 17GTS1.240W  | 95-240                                       | 600       |
| 17               | 17GTS1.630W  | 240-630                                      | 750       |
| 17               | 17GTS1.1000W | 630-1000                                     | 1000      |
| 17               | 17GTS1.1600W | 1000-1600                                    | 1200      |
| 24               | 24GTS1.50W   | 25-50  | 600       |
| 24               | 24GTS1.240W  | 50-240                                       | 600       |
| 24               | 24GTS1.400W  | 150-400                                      | 750       |
| 24               | 24GTS1.1000W | 500-1000                                     | 1000      |
| 36               | 36GTS1.95W   | 35-95  | 750       |
| 36               | 36GTS1.240W  | 70-240                                       | 1000      |
| 36               | 36GTS1.500W  | 185-500                                      | 1000      |
| 36               | 36GTS1.800W  | 400-800                                      | 1200      |
| 36               | 36GTS1.1200W | 630-1200                                     | 1200      |
| 42               | 42GTS1.95W   | 25-95  | 1000      |
| 42               | 42GTS1.240W  | 95-240                                       | 1000      |
| 42               | 42GTS1.400W  | 185-400                                      | 1000      |
| 42               | 42GTS1.630W  | 400-630                                      | 1200      |
| 42               | 42GTS1.1000W | 630-1000                                     | 1200      |



For cables with AL foil screen/ vapor screen please contact our sales office.



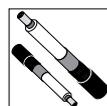
Please add a the letter "A" at the end of the product code for cables with Cu tape screen.



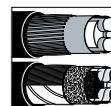
Earth kit included for cables with wire screens.



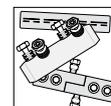
For other cable types please contact our sales office.



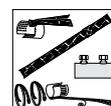
Please contact our sales office when inquiring joints for same type cables with different cross sections.



Various earth connection design solutions exist for armoring. For exact details contact our sales office.



Design accommodates various connector/ferrule types.



Various earth connection kits are available for screen connection. For exact details contact our sales office.

## GTS1 KZ

HEAT-SHRINKABLE MV STRAIGHT JOINTS FOR AWA ARMORED SINGLE CORE POLYMERIC CABLES WITH Cu WIRE OR TAPE SCREEN  
up to U<sub>max</sub> 20,8/36 (42) kV

### Application

GTS1 KZ heat-shrinkable straight joints are designed for armored, plastic insulated cables with Cu wire or tape screen, to accommodate either crimped or mechanical connectors.

### Technical characteristics

Strips of black mastic are used to fill the gap between the connector and the cable insulation.

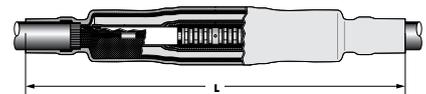
The screen cut and connector are covered by stress grading mastic.

The joint body consists of two tubes.

Stress control tubing covers and overlaps the connector and screen cut area. Dual wall screened insulating tube restores the insulation and screen, up to 24kV.

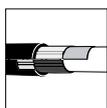
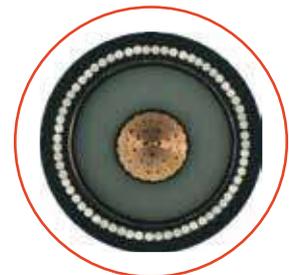
For voltages 36 & 42kV an additional GT2 insulating tubing is applied over the stress control tubing.

The outer sheath is restored with medium or heavy wall adhesive lined tubing depending on the market and customer specifications. Screen connection and armor continuity (canister) are included in the kit.

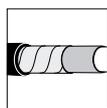


Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

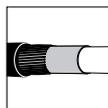
| voltage<br>Um kV | type          | application range<br>sez. (mm <sup>2</sup> ) | L<br>(mm) |
|------------------|---------------|--|-----------|
| 17               | 17GTS1.35KZ   | 16-35  | 1000      |
| 17               | 17GTS1.185KZ  | 50-185                                       | 1200      |
| 17               | 17GTS1.400KZ  | 240-400                                      | 1500      |
| 17               | 17GTS1.630KZ  | 400-630                                      | 1500      |
| 17               | 17GTS1.1000KZ | 630-1000                                     | 1500      |
| 24               | 24GTS1.70KZ   | 25-70  | 1000      |
| 24               | 24GTS1.120KZ  | 50-120                                       | 1200      |
| 24               | 24GTS1.240KZ  | 120-240                                      | 1500      |
| 24               | 24GTS1.500KZ  | 300-500                                      | 1500      |
| 24               | 24GTS1.800KZ  | 500-800                                      | 1500      |
| 24               | 24GTS1.1000KZ | 800-1000                                     | 1500      |
| 36               | 36GTS1.50KZ   | 25-50  | 1000      |
| 36               | 36GTS1.120KZ  | 70-120                                       | 1200      |
| 36               | 36GTS1.300KZ  | 120-300                                      | 1500      |
| 36               | 36GTS1.630KZ  | 300-630                                      | 1500      |
| 36               | 36GTS1.800KZ  | 500-800                                      | 1500      |
| 42               | 42GTS1.95KZ   | 25-95  | 1200      |
| 42               | 42GTS1.240KZ  | 70-240                                       | 1200      |
| 42               | 42GTS1.630KZ  | 300-630                                      | 1500      |
| 42               | 42GTS1.800KZ  | 500-800                                      | 1500      |



For cables with AL foil screen/ vapor screen please contact our sales office.



Earth kit included for cables with tape screens.



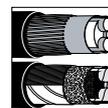
Earth kit included for cables with wire screens.



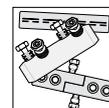
For other cable types please contact our sales office.



Please contact our sales office when inquiring joints for same type cables with different cross sections.



Various earth connection design solutions exist for armoring. For exact details contact our sales office.



Design accommodates various connector/ferrule types.



Various earth connection kits are available for screen connection. For exact details contact our sales office.

# GTS3 W

HEAT-SHRINKABLE MV STRAIGHT JOINTS FOR THREE CORE POLYMERIC CABLES WITHOUT ARMOR  
Up to 20,8/36 (42) kV

### Application

The GTS3 W joints are designed to connect unarmored cables with extruded insulations up to 42kV with Cu wire or tape screen.

### Technical description

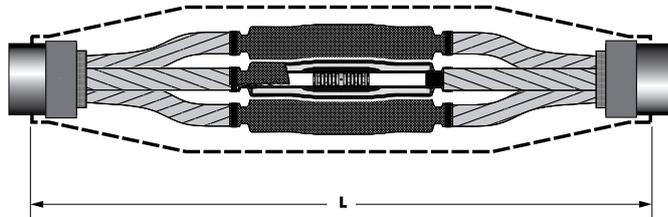
The screen cut areas and connectors, crimp or shear bolt type are covered with a void filling, stress grading mastic.

Stress control tubing covers the connector and overlaps the screen cut.

Dual wall screened insulating tubing completes the joint body for voltage levels up to 24kV. 36kV & 42kV kits will include an additional GT2 insulating tube.

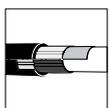
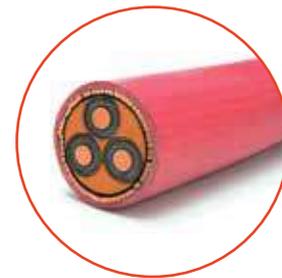
The cable outer sheath is rebuilt with either medium or heavy wall tubing depending on market specifications.

Screen connection material is included in the kit.

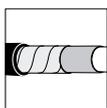


Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

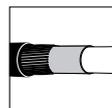
| voltage<br>Um kV | type        | application range<br>sez. (mm <sup>2</sup> ) | L<br>(mm) |
|------------------|-------------|--|-----------|
| 17               | 17GTS3.95W  | 25-95  | 1200      |
| 17               | 17GTS3.240W | 95-240                                       | 1400      |
| 17               | 17GTS3.400W | 240-400                                      | 1600      |
| 24               | 24GTS3.50W  | 25-50  | 1400      |
| 24               | 24GTS3.240W | 50-240                                       | 1600      |
| 24               | 24GTS3.400W | 150-400                                      | 1800      |
| 36               | 36GTS3.95W  | 35-95  | 1400      |
| 36               | 36GTS3.240W | 70-240                                       | 1600      |
| 36               | 36GTS3.400W | 150-400                                      | 1800      |
| 42               | 42GTS3.95W  | 35-95  | 1400      |
| 42               | 42GTS3.240W | 70-240                                       | 1600      |
| 42               | 42GTS3.400W | 185-400                                      | 1800      |



For cables with AL foil screen/ vapor screen please contact our sales office.



Please add a the letter "A" at the end of the product code for cables with Cu tape screen.



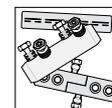
Earth kit included for cables with wire screens.



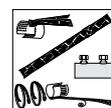
For other cable types please contact our sales office.



Please contact our sales office when inquiring joints for same type cables with different cross sections.



Design accommodates various connector/ferrule types.



Various earth connection kits are available for screen connection. For exact details contact our sales office.

# GTS3 K

HEAT-SHRINKABLE MV STRAIGHT JOINTS FOR THREE CORE POLYMERIC CABLES WITH ARMOR  
Up to 20,8/36 (42) kV

## Application

The GTS3 K joints are designed to connect various types of armored cables with extruded insulations up to 42kV with Cu wire or tape screen.

## Technical characteristics

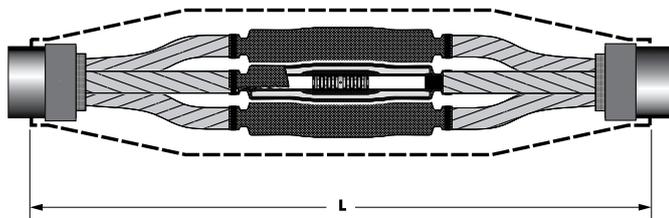
The screen cut areas and connectors, crimp or shear bolt type are covered with a void filling, stress grading mastic.

Stress control tubing covers the connector and overlaps the screen cut.

Dual wall screened insulating tubing completes the joint body for voltage levels up to 24kV. 36kV & 42kV kits will include an additional GT2 insulating tube.

The cable outer sheath is rebuilt with either medium or heavy wall tubing depending on market specifications.

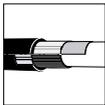
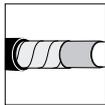
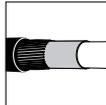
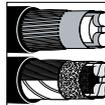
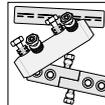
Screen connection and armor continuity material whether SWA, STA, DSTA are included in the kit.



Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

| voltage Um kV | type        | application range sez. (mm <sup>2</sup> ) | L (mm) |
|---------------|-------------|---|--------|
| 17            | 17GTS3.95K  | 25-95                                     | 1200   |
| 17            | 17GTS3.240K | 95-240                                    | 1400   |
| 17            | 17GTS3.400K | 240-400                                   | 1600   |
| 24            | 24GTS3.50K  | 25-50                                     | 1400   |
| 24            | 24GTS3.240K | 50-240                                    | 1600   |
| 24            | 24GTS3.400K | 150-400                                   | 1800   |
| 36            | 36GTS3.95K  | 35-95                                     | 1400   |
| 36            | 36GTS3.240K | 70-240                                    | 1600   |
| 36            | 36GTS3.400K | 150-400                                   | 1800   |
| 42            | 42GTS3.95K  | 35-95                                     | 1400   |
| 42            | 42GTS3.240K | 70-240                                    | 1600   |
| 42            | 42GTS3.400K | 185-400                                   | 1800   |



|   |   |   |   |   |   |   |  |
|---|---|---|---|---|---|---|--|
|  |  |  |  |                        |                      |  |                           |
| For cables with AL foil screen/ vapor screen please contact our sales office.       | Earth kit included for cables with tape screens.                                    | Earth kit included for cables with wire screens.                                    | For other cable types please contact our sales office.                              | Please contact our sales office when inquiring joints for same type cables with different cross sections. | Various earth connection design solutions exist for armoring. For exact details contact our sales office. | Design accommodates various connector/ferrule types.                                  | Various earth connection kits are available for screen connection. For exact details contact our sales office. |

# GTS3.1 W

HEAT-SHRINKABLE MV TRANSITION JOINTS FOR 3X SINGLE CORE POLYMERIC TO THREE CORE POLYMERIC CABLES WITH OR WITHOUT ARMOR

Up to 20,8/36 (42) kV

## Application

GTS3.1 W joints are designed to connect armored or unarmored 3x core cables to 3x single core.

## Technical characteristics

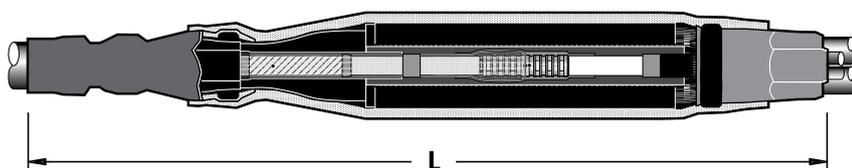
The cables are prepared and aligned.

Stress grading mastic covers the screen cut area and the connector, that can be either crimp or mechanical type.

Stress control and dual wall screened insulating tubing complete the joint body.

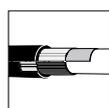
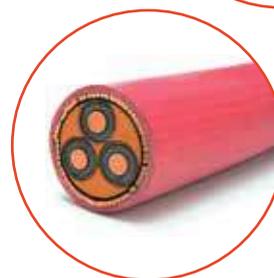
Screening is restored on each core.

The outer protection is restored with adhesive lined medium or heavy wall tubing, and an additional insulating breakout seals the three single core cable side.

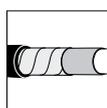


Type tested acc.:  
Cenelec HD 629.1 S2  
IEC 60502-4

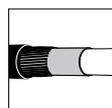
| voltage<br>Um kV | type          | application range<br>sez. (mm <sup>2</sup> ) | L<br>(mm) |
|------------------|---------------|--|-----------|
| 17               | 17GTS3.1.95W  | 25-95  | 1200      |
| 17               | 17GTS3.1.240W | 95-240                                       | 1400      |
| 17               | 17GTS3.1.400W | 240-400                                      | 1600      |
| 24               | 24GTS3.1.50W  | 25-50  | 1400      |
| 24               | 24GTS3.1.240W | 50-240                                       | 1600      |
| 24               | 24GTS3.1.400W | 150-400                                      | 1800      |
| 36               | 36GTS3.1.95W  | 25-95  | 1400      |
| 36               | 36GTS3.1.240W | 70-240                                       | 1600      |
| 36               | 36GTS3.1.400W | 185-400                                      | 1800      |
| 42               | 42GTS3.1.50W  | 25-95  | 1400      |
| 42               | 42GTS3.1.240W | 70-240                                       | 1600      |
| 42               | 42GTS3.1.400W | 185-400                                      | 1800      |



For cables with AL foil screen/ vapor screen please contact our sales office.



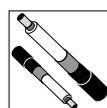
Please add the letter "A" at the end of the product code for cables with Cu tape screen.



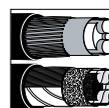
Earth kit included for cables with wire screens.



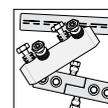
For other cable types please contact our sales office.



Please contact our sales office when inquiring joints for same type cables with different cross sections.



Various earth connection design solutions exist for armoring. For exact details contact our sales office.



Design accommodates various connector/ferrule types.



Various earth connection kits are available for screen connection. For exact details contact our sales office.

# GT11/GT11 R

## HEAT-SHRINKABLE ADHESIVE LINED WRAP AROUND REPAIR SLEEVE

### Application

GT11 is an adhesive lined wraparound sleeve, while GT11R is a fiber reinforced version. Ideal for joint outer sheath rebuilding on both LV and MV applications when space is limited, or when parking the outer jacket tubing is difficult. GT11 R provides superior impact and cut through resistance.

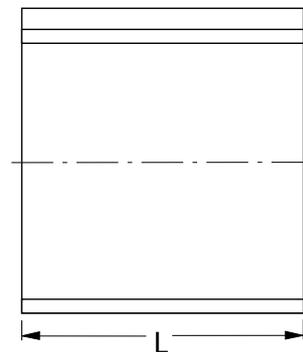


### Technical characteristics

|                              |   |                        |
|------------------------------|---|------------------------|
| Material                     | Crosslinked polyolefin  |                        |
| Colour                       | Black   |                        |
| Continuous operating temp.   | -40°C to +135°C   |                        |
| Minimum shrink temp.         | 125°C   |                        |
| Density                      | 1,1 g/cm <sup>3</sup> ±10%  | ASTMD-1505 / ISO R1183 |
| Tensile strength             | 20 ÷ 25 N/mm <sup>2</sup>   | ASTM D-412 / ISO 37    |
| Ultimate elongation          | 500% ÷ 600%   | ASTM D-412 / ISO 37    |
| Dielectric constant          | <5  | IEC 250                |
| Volume resistivity           | > 1x10 <sup>13</sup> Ohm.cm   | IEC 93                 |
| Dielectric strength          | > 15 kV/mm  | IEC 243                |
| Water absorption             | <0,2%   | DIN 53495 / ISO 92     |
| Fungus and mildew resistance | V applied: 1, with: GLO   | ASTM G 21              |
| Contents of carbon black     | >2,5%   | ASTM 2671              |
| Chemical resistance          | (Treatment with 0,1N Na <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> SO <sub>4</sub> , NaOH, NaCl) |                        |



| type                  | Ø as supplied / after full recovery (mm) | Tk wall thickness after full recovery (mm) | L standard (m) |
|-----------------------|--|--|----------------|
| GT11-34 / GT11-34 R   | 41/10                                    | 2,5  | 1,5            |
| GT11-50 / GT11-50 R   | 55/15                                    | 2,5  | 1,5            |
| GT11-75 / GT11-75 R   | 75/22                                    | 2,8  | 1,5            |
| GT11-105 / GT11-105 R | 105/30                                   | 3  | 1,5            |
| GT11-120 / GT11-120 R | 120/40                                   | 3,5  | 1,5            |
| GT11-146 / GT11-146 R | 146/38                                   | 3,5  | 1,5            |
| GT11-164 / GT11-164 R | 164/42                                   | 3,5  | 1,5            |
| GT11-200 / GT11-200 R | 200/55                                   | 3,5  | 1,5            |



## HEAT-SHRINKABLE ANTI-TRACKING RIGHT ANGLE AND STRAIGHT BUSHING BOOTS Up to U<sub>max</sub> 52kV

### Application

PTD and PTS are injection molded, heat-shrinkable, anti-tracking, bushing boots.

Designed for medium voltage terminations.

Erosion and UV resistant.

Ideal for indoor installation as the thick wall ensures mechanical support for the terminations.

Both designs, straight and right angle have non tracking mastic sealing both at the cable and bushing area.



### Technical characteristics

|                            |                                 |                         |
|----------------------------|---------------------------------|-------------------------|
| Material                   | Crosslinked polyolefin          |                         |
| Colour                     | Red                             |                         |
| Continuous operating temp. | -40°C to +135°C                 |                         |
| Minimum shrink temp.       | 125°C                           |                         |
| Density                    | 1,2 g/cm <sup>3</sup> ±10%      | ASTM D-1505 / ISO R1183 |
| Tensile strength           | >6 N/mm <sup>2</sup>            | ASTM D-412 / ISO 37     |
| Ultimate elongation        | 200%                            | ASTM D-412 / ISO 37     |
| Dielectric constant        | >5                              | IEC 250                 |
| Volume resistivity         | 1x10 <sup>12</sup> Ohm.cm       | IEC 93                  |
| Dielectric strength        | >10 kV/mm                       | IEC 243                 |
| Tracking resistance        | V applied: 3,25 kV ASTM D-23-03 |                         |

| type | bushing side as supplied/after full recovery (mm) | cable termination side as supplied/after full recovery (mm) |
|------|---|---|
| PTD1 | 80/33   | 34/20   |
| PTD2 | 80/33   | 58/20   |
| PTS1 | 70/37   | 36/20   |
| PTS2 | 95/37   | 67/27   |



Global expert in cables and cabling systems

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