

MEDIUM VOLTAGE JOINTS

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HEAT-SHRINKABLE MV STRAIGHT JOINTS FOR UNARMORED SINGLE CORE POLYMERIC CABLES WITH Cu WIRE OR TAPE SCREEN
up to U_{max} 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.

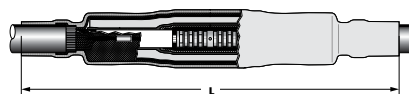
The screen cut and connector are covered by stress grading mastic.

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.

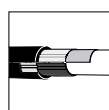
The outer sheath is restored with medium or heavy wall adhesive lined tubing depending on the market and customer specifications.

Screen connection material is included in the kit.

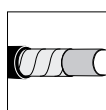


Type tested acc.:
Cenelec HD 629.1 S2
IEC 60502-4

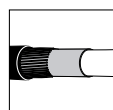
voltage Um kV	type	application range sez. (mm ²)	L (mm)
17	17GTS1.95W	25-95	600
17	17GTS1.240W	95-240	600
17	17GTS1.630W	240-630	750
17	17GTS1.1000W	630-1000	1000
17	17GTS1.1600W	1000-1600	1200
24	24GTS1.50W	25-50	600
24	24GTS1.240W	50-240	600
24	24GTS1.400W	150-400	750
24	24GTS1.1000W	500-1000	1000
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.



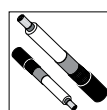
Please add a the letter "A" at the end of the product code for cables with Cu tape screen.



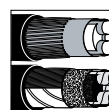
Earth kit included for cables with wire screens.



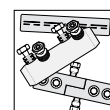
For other cable types please contact our sales office.



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.

HEAT-SHRINKABLE MV STRAIGHT JOINTS FOR AWA ARMORED SINGLE CORE POLYMERIC CABLES WITH Cu WIRE OR TAPE SCREEN
up to Umax 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.

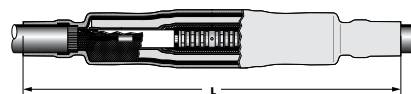
The screen cut and connector are covered by stress grading mastic.

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.

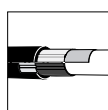
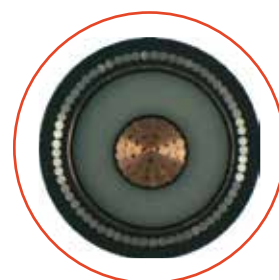
For voltages 36 & 42kV an additional GT2 insulating tubing is applied over the stress control tubing.

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.

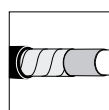


Type tested acc.:
Cenelec HD 629.1 S2
IEC 60502-4

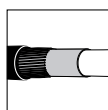
voltage Um kV	type	application range sez. (mm ²)	L (mm)
17	17GTS1.35KZ	16-35	1000
17	17GTS1.185KZ	50-185	1200
17	17GTS1.400KZ	240-400	1500
17	17GTS1.630KZ	400-630	1500
17	17GTS1.1000KZ	630-1000	1500
24	24GTS1.70KZ	25-70	1000
24	24GTS1.120KZ	50-120	1200
24	24GTS1.240KZ	120-240	1500
24	24GTS1.500KZ	300-500	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.



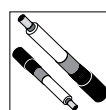
Earth kit included for cables with tape screens.



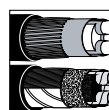
Earth kit included for cables with wire screens.



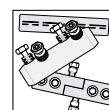
For other cable types please contact our sales office.



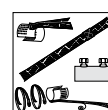
Please contact our sales office when inquiring joints for same type cables with different cross sections.



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.

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

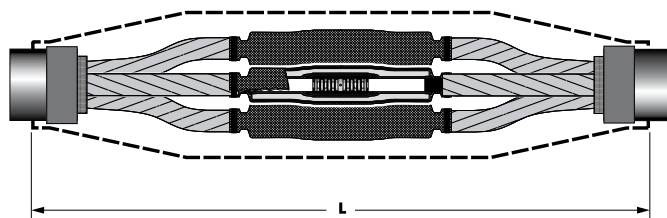
The screen cut areas and connectors, crimp or shear bolt type are covered with a void filling, stress grading mastic.

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.

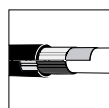
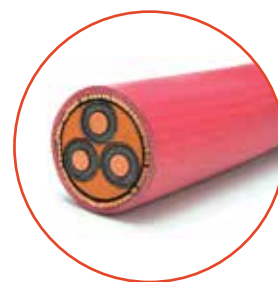
The cable outer sheath is rebuilt with either medium or heavy wall tubing depending on market specifications.

Screen connection material is included in the kit.

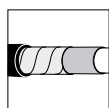


Type tested acc.:
Cenelec HD 629.1 S2
IEC 60502-4

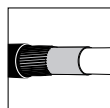
voltage Um kV	type	application range sez. (mm ²)	L (mm)
17	17GTS3.95W	25-95	1200
17	17GTS3.240W	95-240	1400
17	17GTS3.400W	240-400	1600
24	24GTS3.50W	25-50	1400
24	24GTS3.240W	50-240	1600
24	24GTS3.400W	150-400	1800
36	36GTS3.95W	35-95	1400
36	36GTS3.240W	70-240	1600
36	36GTS3.400W	150-400	1800
42	42GTS3.95W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



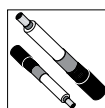
Please add a the letter "A" at the end of the product code for cables with Cu tape screen.



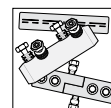
Earth kit included for cables with wire screens.



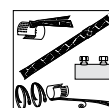
For other cable types please contact our sales office.



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.

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

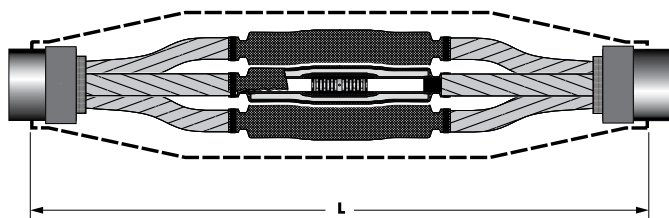
The screen cut areas and connectors, crimp or shear bolt type are covered with a void filling, stress grading mastic.

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.

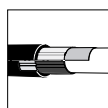
The cable outer sheath is rebuilt with either medium or heavy wall tubing depending on market specifications.

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

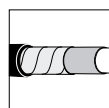


Type tested acc.:
Cenelec HD 629.1 S2
IEC 60502-4

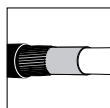
voltage Um kV	type	application range sez. (mm ²)	L (mm)
17	17GTS3.95K	25-95	1200
17	17GTS3.240K	95-240	1400
17	17GTS3.400K	240-400	1600
24	24GTS3.50K	25-50	1400
24	24GTS3.240K	50-240	1600
24	24GTS3.400K	150-400	1800
36	36GTS3.95K	35-95	1400
36	36GTS3.240K	70-240	1600
36	36GTS3.400K	150-400	1800
42	42GTS3.95K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



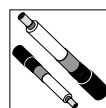
Earth kit included for cables with tape screens.



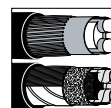
Earth kit included for cables with wire screens.



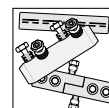
For other cable types please contact our sales office.



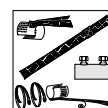
Please contact our sales office when inquiring joints for same type cables with different cross sections.



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.

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

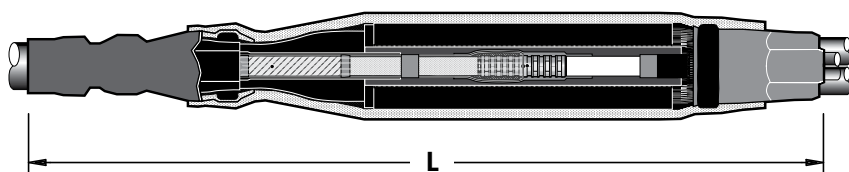
The cables are prepared and aligned.

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.

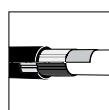
Screening is restored on each core.

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.

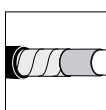


Type tested acc.:
Cenelec HD 629.1 S2
IEC 60502-4

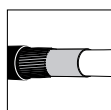
voltage Um kV	type	application range sez. (mm ²)	L (mm)
17	17GTS3.1.95W	25-95	1200
17	17GTS3.1.240W	95-240	1400
17	17GTS3.1.400W	240-400	1600
24	24GTS3.1.50W	25-50	1400
24	24GTS3.1.240W	50-240	1600
24	24GTS3.1.400W	150-400	1800
36	36GTS3.1.95W	25-95	1400
36	36GTS3.1.240W	70-240	1600
36	36GTS3.1.400W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



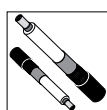
Please add the letter "A" at the end of the product code for cables with Cu tape screen.



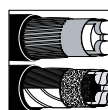
Earth kit included for cables with wire screens.



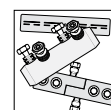
For other cable types please contact our sales office.



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



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Design accommodates various connector/ferrule types.



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

GTC3 K/KB

HEAT-SHRINKABLE MV STRAIGHT JOINTS FOR THREE CORE PAPER INSULATED (MIND, BELTED), COMMON LEAD SHEATHED WITH ARMOR GTC3 K, OR INDIVIDUALLY LEAD SHEATHED CABLES GTC3 KB
Up to 19/33 (36) kV

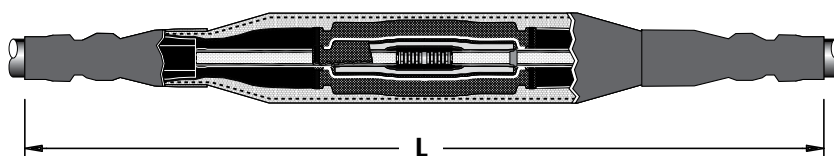
Application

The GTC3 joints are designed to for belted MIND insulated cables with common lead sheath or individually lead sheathed cables with armour up to Umax 36kV.

Technical characteristics

The joint construction converts the cables into plastic insulated cables with oil resistant tubing that cover the cores. The screen cut area, gaps, and the connector is covered with stress grading mastic. Stress control tube and screened insulating tube is used to make the joint body. The 36kV joint has an additional insulating tube added to the kit. Screening and armoring is restored, armour kits will vary depending on the cable construction. The joint is covered with medium or heavy wall adhesive lined tubing depending on market requirements.

The "KB" joints are designed for HSL type cables with 3 lead sheaths.

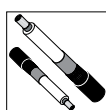


Type tested acc.:
Cenelec HD 629.2 S2
IEC 60502-5

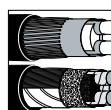
voltage Um kV	type	application range sez. (mm ²)	L (mm)
17	17GTC3.95K	25-95	1200
17	17GTC3.120K	50-120	1400
17	17GTC3.240K	95-240	1600
17	17GTC3.400K	240-400	1400
24	24GTC3.50K	25-50	1600
24	24GTC3.240K	50-240	1800
24	24GTC3.400K	150-400	1800
36	36GTC3.95K	35-95	1600
36	36GTC3.240K	70-240	1800
36	36GTC3.400K	150-400	2100
24	24GTC3.50KB	25-50	1600
24	24GTC3.240KB	50-240	1800
24	24GTC3.400KB	150-400	2100
36	36GTC3.95KB	35-95	1600
36	36GTC3.240KB	70-240	1800
36	36GTC3.400KB	150-400	2100



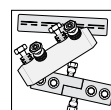
For other cable types please contact our sales office.



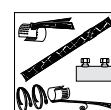
Please contact our sales office when inquiring joints for same type cables with different cross sections.



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Design accommodates various connector/ferrule types.



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

GTM3 K/KB

HEAT-SHRINKABLE MV TRANSITION JOINTS FROM 3x SINGLE CORE POLYMERIC CABLES TO 3x MIND (PILC) COMMON LEAD SHEATHED ARMORED CABLES GTM3 K, OR INDIVIDUALLY LEAD SHEATHED CABLES GTM3 KB Up to 19/33 (36) kV

Application

GTM3 transition joints are designed to connect 3 core cables with extruded insulation to 3 core lead sheathed MIND (PILC) paper insulated cables with or without armor.

Technical characteristics

The paper side is converted to plastic cable, utilizing an oil resistant tube a conductive tubing and 3 finger conductive breakout.

The connectors, either crimp or shear bolt type as well as the screen cut area are covered by stress grading mastic.

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

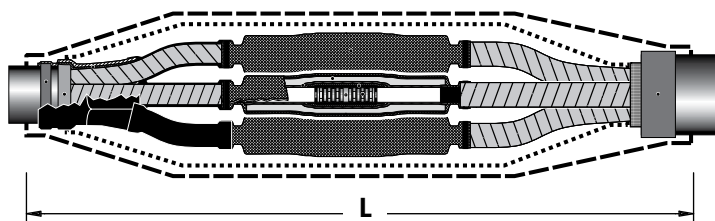
An additional insulating tube is added for 36kV and above.

Shielding is restored on the joint.

Canister rebuilds the mechanical protection for armored cables.

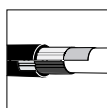
The outer jacket is restored with either medium or heavy wall adhesive coated tubing depending on market specification.

The "KB" joints are designed for HSL type cable with 3 lead sheaths.

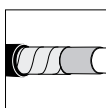


Type tested acc.:
Cenelec HD 629.2 S2
IEC 60502-5

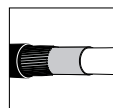
voltage Um kV	type	application range sez. (mm ²)	L (mm)
17	17GTM3.95K	25-95	1200
17	17GTM3.240K	95-240	1400
17	17GTM3.400K	240-400	1600
24	24GTM3.50K/KB	25-50	1400
24	24GTM3.240K/KB	50-240	1600
24	24GTM3.400K/KB	150-400	1800
36	36GTM3.95K/KB	35-95	1400
36	36GTM3.240K/KB	70-240	1600
36	36GTM3.400K/KB	150-400	1800



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



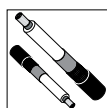
Earth kit included for cables with tape screens.



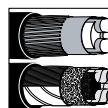
Earth kit included for cables with wire screens.



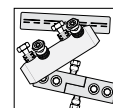
For other cable types please contact our sales office.



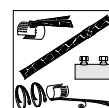
Please contact our sales office when inquiring joints for same type cables with different cross sections.



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.

HEAT-SHRINKABLE MV TRANSITION JOINTS FOR 3X SINGLE CORE POLYMERIC CABLES TO THREE CORE MIND (PILC) WITH OR WITHOUT ARMOR
Up to 19/33 (36) kV

Application

GTM3.1W transition joints are designed to connect 3 single core extruded insulation cables to 3 core MIND (PILC) paper insulated cables belted up to Umax 36kV with or without armor.

Technical characteristics

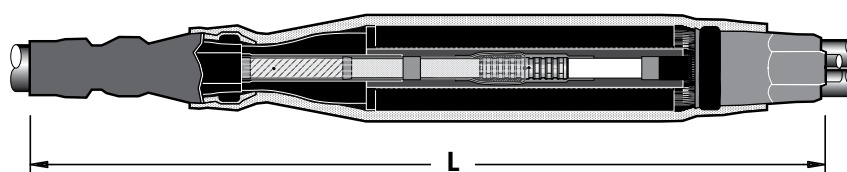
The paper side is converted to plastic cable, utilizing an oil resistant tube a conductive tubing and 3 finger conductive breakout.

The connectors, either crimp or shear bolt type as well as the screen cut area are covered by stress grading mastic.

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

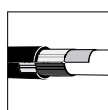
Shielding is restored on the joint.

The outer jacket is restored with either medium or heavy wall adhesive coated tubing while an insulating 3 finger breakout seals the joint on the single core side.

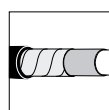


Type tested acc.:
Cenelec HD 629.2 S2
IEC 60502-5

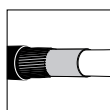
voltage Um kV	type	application range sez. (mm ²)	L (mm)
17	17GTM3.1.95W	25-95	1200
17	17GTM3.1.240W	95-240	1400
17	17GTM3.1.400W	240-400	1600
24	24GTM3.1.50W	25-50	1400
24	24GTM3.1.240W	50-240	1600
24	24GTM3.1.400W	150-400	1800
36	36GTM3.1.95W	35-95	1400
36	36GTM3.1.240W	70-240	1600
36	36GTM3.1.400W	150-400	1800



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



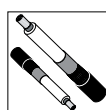
Please add a the letter "A" at the end of the product code for cables with Cu tape screen.



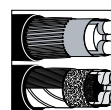
Earth kit included for cables with wire screens.



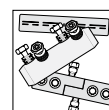
For other cable types please contact our sales office.



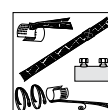
Please contact our sales office when inquiring joints for same type cables with different cross sections.



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.

TAPED, RESIN INJECTED STRAIGHT THROUGH JOINTS FOR UNARMORED MV SINGLE CORE POLYMERIC CABLES

Up to 19/33 (36) kV

Application

GRS1 is a tape insulated joint with injected resin outer protection designed for unarmored plastic insulated cables.

Technical description

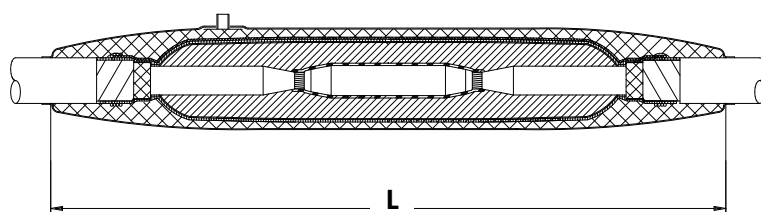
NGS semi-conductive rubber tape covers the connector.

NGA tape is used to build up the insulation thickness over the connector and the cores till the Cu screen wires.

NS spacer tape is applied to accommodate the resin.

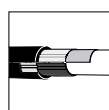
NCT and NVC tapes create the outer protective layer.

Epoxy resin is used to fill the joint.

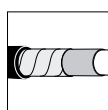


Meets specifications
CEI 20-62/1
Cenelec HD 629.1 S2

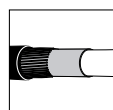
voltage Um kV	type	application range sez. (mm ²)	L (mm)
24	24GRS1.300	25 ÷ 300	630
24	24GRS1.630	400 ÷ 630	700
36	36GRS1.300	25 ÷ 300	740



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



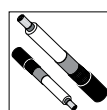
Please add a the letter "A" at the end of the product code for cables with Cu tape screen.



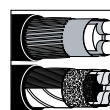
Earth kit included for cables with wire screens.



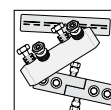
For other cable types please contact our sales office.



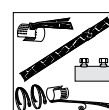
Please contact our sales office when inquiring joints for same type cables with different cross sections.



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.

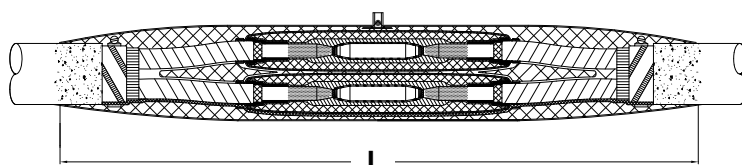
TAPED, RESIN INJECTED STRAIGHT THROUGH JOINTS FOR UNARMORED MV THREE CORE POLYMERIC CABLES
Up to U_{max} Up to 19/33 (36) kV

Application

GRS3 is a tape insulated, injected resin joint.
Designed to accomodate 3 core unarmored cables with extruded insulation.

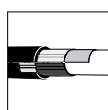
Technical description

NGS semi-conductive rubber tape covers the connector.
NGA tape is used to build up the insulation thickness over the connector and the cores till the Cu screen wires.
NS spacer tape is applied to accommodate the resin.
NCT and NVC tapes create the outer protective layer.
Epoxy resin ISM45G is used to fill the joint.

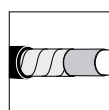


Meets specifications
CEI 20-62/1
Cenelec HD 629.1 S2

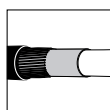
voltage Um kV	type	application range sez. (mm ²)	L (mm)
24	24GRS3.95VT	25 ÷ 95	760
24	24GRS3.240VT	120 ÷ 240	840
24	24GRS3.300VT	150 ÷ 300	860
36	36GRS3.240VT	25 ÷ 240	1080



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



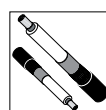
Please add a the letter "A" at the end of the product code for cables with Cu tape screen.



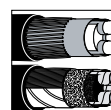
Earth kit included for cables with wire screens.



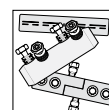
For other cable types please contact our sales office.



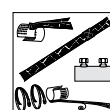
Please contact our sales office when inquiring joints for same type cables with different cross sections.



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Design accomodates various connector/ferrule types.



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