
Content	Page
1GRL CAST RESIN STRAIGHT JOINTS	6
1GRD / 1GRT CAST RESIN BRANCH/TEE JOINTS	7
1GLT4 GR 1 to 7 (SVMS type) HEAT-SHRINKABLE STRAIGHT THROUGH JOINTS	8
1GLT C-E HEAT-SHRINKABLE STRAIGHT THROUGH JOINTS FOR CABLES WITH CONCENTRIC NEUTRAL	9
1GLT KI HEAT-SHRINKABLE STRAIGHT THROUGH ARMORED JOINTS	10
1GDT HEAT-SHRINKABLE BRANCH JOINTS	11
1TTE HEAT-SHRINKABLE OUTDOOR TERMINATION FOR ARMORED OR UNARMORED CABLES	12
1SES HEAT-SHRINKABLE LIVE END SEAL KITS FOR CABLES	13

CAST RESIN STRAIGHT JOINTS

Up to 0,6/1 (1,2) kV

Application

The 1GRL cast resin straight joints are designed to connect various types of low voltage cables with polymeric (PVC, XLPE) or paper insulation.

The joints provide excellent mechanical protection and good electrical insulation.

Available with PUR or Epoxy resins.

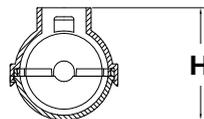
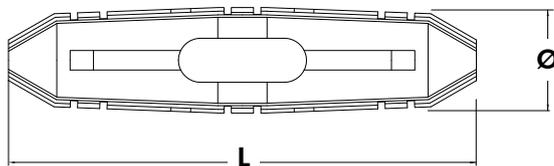
The joints can be energized immediately after installation.

Joints can also accommodate armored cables with the addition of an armor kit.



Kit contents

- Injection molded shells
- 2 chamber resin bag / or in cans
- Sealing tape
- Instruction manual
- (Armor kit for cables w. armor)



Meets specifications:
EN 50393

type	armor add on kit	resin type	application range				L (mm)	Ø (mm)	H (mm)	
			max size (mm ²)			Ø cable (mm)				
1GRL1	ACK-L1	EPOXY	1x95	2x25	3x16	4x10	8÷26	190	44	45
1GRL2	ACK-L2	EPOXY	1x240	2x50	3x35	3x35+1x25	14÷32	275	58	60
1GRL3	ACK-L3	EPOXY	1x400	2x95	3x70	3x70+1x35	23÷39	360	62	64
1GRL4	included	PUR	1x630	2x185	3x150	3x150+1x95	30÷55	440	95	64
1GRL5	included	PUR	1x630	2x300	3x300	3x300+1x150	50÷75	650	160	190
1GRL6	included	PUR	1x630	2x400	3x300	3x300+1x150	50÷88	810	160	166

Standard resin: EPOXY for 1GRL1, 1GRL2 and 1GRL3

Standard resin: PUR with fillers for 1GRL4, 1GRL5 and 1GRL6

CAST RESIN BRANCH/TEE JOINTS

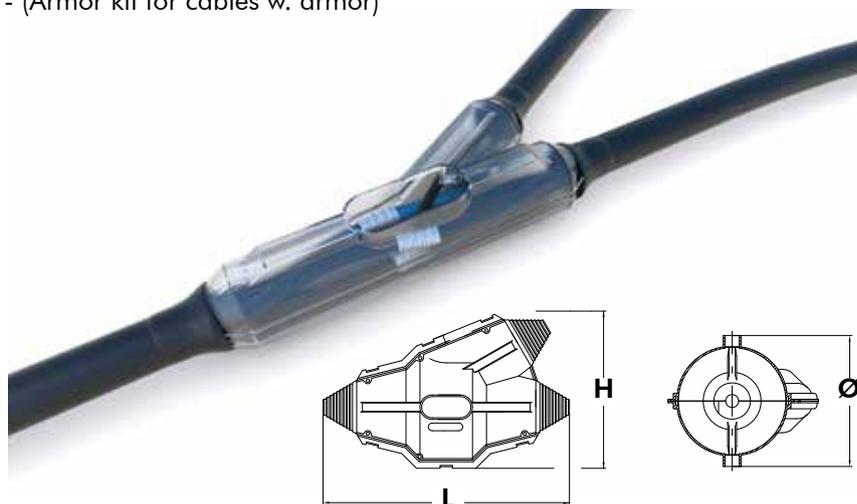
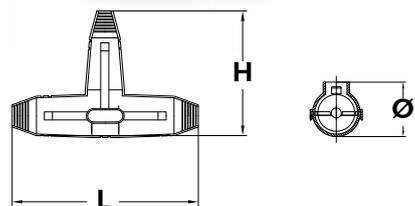
Up to 0,6/1 (1,2) kV

Application

The 1GRD/1GRT cast resin branch/tee joints are designed to accommodate multi core low voltage cables with PVC or XLPE insulation. The joints can be filled with either PUR or Epoxy resin. The joints can be energized immediately after installation. Joints can also accommodate armored cables with the addition of an armor kit.

Kit contents

- Injection molded shells
- 2 chamber resin bag / or in cans
- Sealing tape
- Instruction manual
- (Armor kit for cables w. armor)



Meets specifications:
EN 50393

BRANCH JOINT

type	armor add on kit	resin type	application range						L (mm)	Ø (mm)	H (mm)
			max size (mm ²)				Ø main (mm)	Ø branch (mm)			
1GRD1	ACK-D1	EPOXY	1x95	2x25	3x16	4x10	8÷26	8÷26	190	44	95
1GRD2	ACK-D2	EPOXY	1x240	2x70	3x50	3x35+1x25	23÷39	14÷32	275	62	120
1GRD3	included	PUR	1x300	2x95	3x70	3x50+1x25	14÷45	14÷45	300	140	170
1GRD4	included	PUR	1x400	2x120	3x95	3x95+1x50	15÷50	15÷50	435	140	195
1GRD5	included	PUR	1x630	2x185	3x150	3x150+1x95	20÷60	20÷60	675	160	280

Standard resin: EPOXY for 1GRD1 and 1GRD2

Standard resin: PUR with fillers for 1GRD3, 1GRD4 and 1GRD5

TEE JOINT

type	armor add on kit	resin type	application range						L (mm)	Ø (mm)	H (mm)
			max size (mm ²)				Ø main (mm)	Ø branch (mm)			
1GRT1	ACK-D1	EPOXY	1x150	2x50	3x35	4x25	14÷39	8÷32	290	75	155
1GRT2	ACK-D2	EPOXY	1x300	2x70	3x50	3x50+1x25	23÷50	20÷45	320	100	200

Standard resin: EPOXY

1GLT4 GR 1 to 7 / (SVMS type)

HEAT-SHRINKABLE LOW VOLTAGE STRAIGHT THROUGH JOINTS

Up to 0,6/1 (1,2) kV

Application

The 1GLT4 GR 1 - 7 low voltage heat-shrinkable straight joint kits are designed for plastic insulated cables in full accordance with DIN47640.

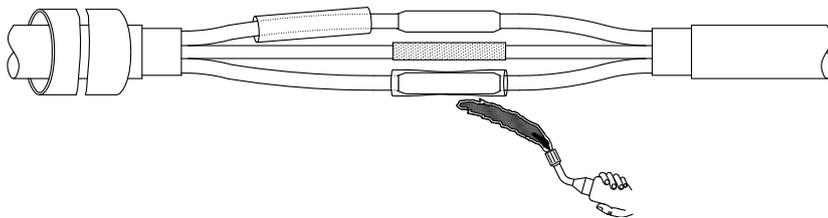
The kits are designed to accommodate the DIN specific mechanical shear bolt connectors (GPH D-Series), and are fully type tested acc. to EN50393. GT4 heavy wall tubing w. adhesive is used to create the joint.

The tube is used to insulate the core/connector as well as rebuilding the outer jacket.



Kit contents

- 4 x GT4 heavy wall tubing w. adhesive for core insulation
- 4 x GPH D series mechanical shear bolt connectors (only "C" series)
- 1 x GT4 heavy wall tubing w. adhesive to rebuild the outer sheath



Type tested acc. to:
EN50393
Meets specifications:
DIN47640

type	application range (mm ²)	L (mm)
1GLT4-GR1	4 ÷ 16	420
1GLT4-GR2	16 ÷ 35	430
1GLT4-GR3	25 ÷ 50	500
1GLT4-GR4	35 ÷ 95	710
1GLT4-GR5	35 ÷ 150	890
1GLT4-GR6	95 ÷ 150	890
1GLT4-GR7	95 ÷ 240	1100

type	application range (mm ²)	L (mm)
1GLT4-GR1 C	4 ÷ 16 Cu/Al	420
1GLT4-GR2 C	16 ÷ 35 Cu/Al	430
1GLT4-GR3 C	25 ÷ 50 Cu/Al	500
1GLT4-GR4 C	35 ÷ 95 Cu/Al	710
1GLT4-GR5 C	35 ÷ 150 Cu/Al	890
1GLT4-GR6 C	95 ÷ 150 Cu/Al	890
1GLT4-GR7 C	95 ÷ 240 Cu/Al	1100

With code C the kits are supplied w. mechanical connectors



HEAT-SHRINKABLE LOW VOLTAGE STRAIGHT THROUGH JOINTS FOR CABLES WITH CONCENTRIC NEUTRAL
Up to 0,6/1 (1,2) kV

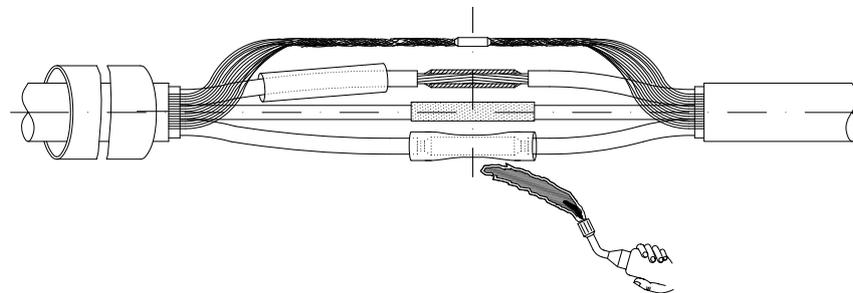
Application

The 1GLT C-E heat-shrinkable low voltage joint kits are designed to connect low voltage cables with concentric neutral having PE, PVC, or XLPE outer sheaths.

The kits can be ordered with crimped or mechanical connectors.

Kit contents

- Inner core/connector insulating tubes w. adhesive
- Outer tube w. adhesive
- Ferrules (crimp or mechanical, market specific)



Meets specifications:
EN 50393

type	application range (mm ²)	L (mm)
1GLT2C-E	3x6+6C Cu 3x6+16C Cu	375
1GLT3C-E	3x25+25C Cu 3x50+25C Cu	500
1GLT4C-E	3x95+50C Cu 3x150+95C Cu	750
1GLT2CAL-E	3x10+6C Al	375
1GLT3CAL-E	3x25+16C Al 3x50+25C Al	500
1GLT4CAL-E	3x95+35C Al 3x150+50C Al	750
1GLT6CAL-E	3x240+95C Al	1000



HEAT-SHRINKABLE LOW VOLTAGE STRAIGHT THROUGH ARMORED JOINTS Up to 0,6/1 (1,2) kV

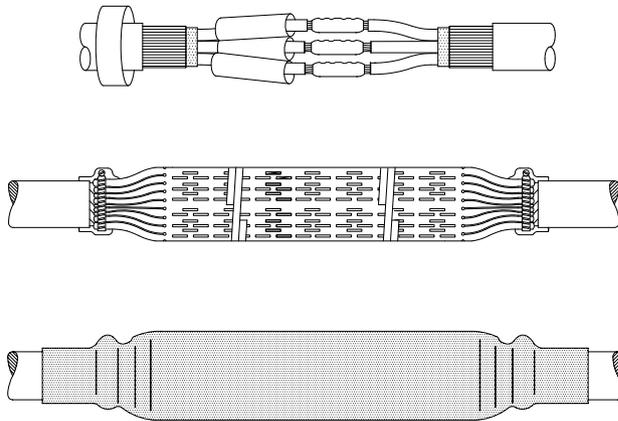
Application

The 1GLT KI heat-shrinkable low voltage straight through joints, are designed to connect armored cables with STA or SWA having PVC, PE, XLPE or EPR insulation.

The joints are designed to accommodate both crimp or mechanical ferrules.

Kit contents

- Inner core/connector insulating tubes w. adhesive
- Canister & earthing kit (depending on cable)
- Outer protective tube(s) w. adhesive



Meets specifications:
EN 50393

type	application range (mm ²)	L (mm)
1GLT4.16 KI	4x10-16 Cu/Al	750
1GLT4.35 KI	4x25-35 Cu/Al	750
1GLT4.95 KI	4x50-95 Cu/Al	750
1GLT4.150 KI	4x95-150 Cu/Al	750
1GLT4.240 KI	4x185-240 Cu/Al	750
1GLT4.400 KI	4x300-400 Cu/Al	1000

HEAT-SHRINKABLE LOW VOLTAGE BRANCH JOINTS

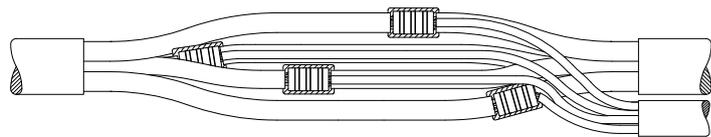
Up to 0,6/1 (1,2) kV

Application

The 1GDT heat-shrinkable low voltage branch joint kits are designed to accommodate 4 core plastic cables, with or without armor.

Kit contents

- Inner core/connector protection tubes w. adhesive
- Outer heat-shrinkable wraparound sleeve with or without reinforcement
- For armored cable: Armor continuity kit supplied



Meets specifications:
EN 50393

type	application range (mm ²)	
	main	branch
1GDT2	4x6 ÷ 4x10	2x2,5-4x2,5
1GDT3	4x6 ÷ 4x25	2x2,5-4x2,5
1GDT4	3x35+25 ÷ 3x95+50	2x2,5-4x25

HEAT-SHRINKABLE LOW VOLTAGE OUTDOOR TERMINATION FOR ARMORED OR UNARMORED CABLE Up to 0,6/1 (1,2) kV

Application

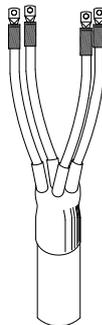
The 1TTE heat-shrinkable low voltage outdoor termination kits are designed for cables up to 4 cores with or without armor.

The adhesive coating on the lug sealing tubes, the breakout body and fingers provides a good environmental seal, while the cores are protected with thin or medium wall tubing.

All components are UV resistant.

Kit contents

- Breakout
- Core protection tube (thin or medium wall sleeves)
- Lug sealing tubes w. adhesive
- For armored cable: Armor continuity kit consist of corrosion protection sleeve and earth braid



Type tested acc. to:
EN 50393

type	application range (mm ²)
1TTE3 & 1TTE 4.16 W	4 ÷ 16
1TTE3 & 1TTE 4.50 W	16 ÷ 50
1TTE3 & 1TTE 4.150 W	70 ÷ 150
1TTE3 & 1TTE 4.300 W	185 ÷ 300

Kits for unarmored cables



type	application range (mm ²)
1TTE3 & 1TTE 4.16 Z	4 ÷ 16
1TTE3 & 1TTE 4.50 Z	16 ÷ 50
1TTE3 & 1TTE 4.150 Z	70 ÷ 150
1TTE3 & 1TTE 4.300 Z	185 ÷ 300

Kits for armored cables



HEAT-SHRINKABLE LIVE END SEAL KITS FOR LOW VOLTAGE CABLES

Up to 0,6/1 (1,2) kV

Application

The SES kits provides insulation for energized LV cables.

The end caps are spiral coated with adhesive, therefore the cables can be left outdoors.

The caps are weathering resistant are supplied with the required "energized" symbol warning mark.

Kit contents

- 3, or 4 core protective caps, 1 outer sealing cap
- Tinned copper mesh supplied neutral for concentric neutral cable



Meets specifications:
EN 50393

type	application range		
	max size (mm ²)	max. core Ø cable (mm)	max. outer Ø cable (mm)
1SES 6	4x6	4-8	8-17
1SES 16	10x16	5-8	15-27
1SES 35	25x35	7-15	15-30
1SES 150	50x150	11-17	26-43
1SES 300	150x300	15-27	37-69

