

GT

Electrotechnical Products

Resin Cable Joints Made in Germany



Cast resin technique of

Application

The range of cast resin accessories includes straight joints, branch joints, double branch joints und transition joints. In order to use the wide application range completely, the joints are delivered without connectors and clamps. But these can be delivered on request.

GT cast resin accessories are longitudinal as well as cross-waterproof.

All cast resin accessories are suitable for use on PVC-, PE-X (XLP), and PE-insulated lines and cables. We deliver suitable accessories for paper-insulated cables as well.

The kits are usable

- outdoor
- indoor
- in the earth
- in water
- in installation ducts



Advantages

One system for all voltage ranges

- for filling or producing of cable accessories or parts of them for:
- telecommunication and signal cables
- power cables up to 1kV
- power cables up to 10 kV
- GT cast resin is optimally suitable for all applications
- all cast resins are halogen-free
- transparent mixing bags for controlling the mixing procedure
- transparent, impact-resistant, self-sealing mold forms



Delivery

The straight and transition joints are equipped with distance holders. Up to size GT 3 with funnel. The series GTZ is a cylindrical form and especially suitable for single-core, signal and telecommunication cables.

Cast resin type GA

The cast resin type GA is a 2-component-polyurethane-cast resin system and meets the standard DIN VDE 0291 part 2. It is rated for nominal voltage up to 10 kV.

The cast resin is delivered in a transparent mixing bag. After removing the protective bag and the separator, the 2 components flow together and must be mixed for about 3 minutes. When the color becomes homogeneous, the resin is ready for use.

Features

- high hydrolysis strength
- CO₂ gas producing < 10 ml (Hydrophobia)
- thin-fluid after mixing
- no deposits of filling material
- excellent adhesive strength on metal and synthetic material
- resistant against UV-rays and chemical influences
- soft and elastic after hardening
- alkaline-resistant
- long storage time



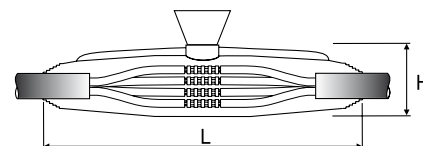
For further information refer to our Technical Documentation TD102400E.

Cast resin technique

$U_0/U (U_m)$ 0,6/1 (1,2) kV
 $U_0/U (U_m)$ 3,6/3 (7,2) kV

Straight joints

- for overhead insulated power lines and plastic cables with PUR-cast resin type GA
- the Cast Resin joints meet the standards DIN VDE 0278 and can be used on all plastic- and paper-insulated cables
- delivered with two-part snap-fit mold body, distance holders and funnel up to type GT-A-3; with distance holders up to GT-A-6, endsealing tape and installation drawings



Cable \varnothing min.-max. mm	Cable type and cross section			Dimensions L x H mm	Type
	non armoured Straight joints up to 1 kV up to ...mm ²	armoured Straight joints up to 1 kV up to ...mm ²	armoured Straight joints up to 6 kV up to ...mm ²		
8 – 18	4 x 4	4 x 1,5		185 x 35	GTZ-A 0
14 – 30	4 x 16	4 x 10		280 x 52	GTZ-A 3
6 – 19	4 x 4	4 x 1,5		160 x 36	GT-A 0
6 – 22	4 x 16	4 x 10		190 x 48	GT-A 1
14 – 35	4 x 25	4 x 16		240 x 50	GT-A 2
16 – 37	4 x 50	4 x 35		270 x 65	GT-A 3
20 – 44	4 x 70	4 x 50	3 x 35	360 x 80	GT-A 4
26 – 52	4 x 150	4 x 95	3 x 95	430 x 95	GT-A 5
35 – 65	4 x 185	4 x 150	3 x 120	530 x 120	GT-A 6
45 – 70	4 x 300	4 x 240	3 x 240	700 x 240	GT-A 7
50 – 80	4 x 400	4 x 300	3 x 300	900 x 190	GT-A 8

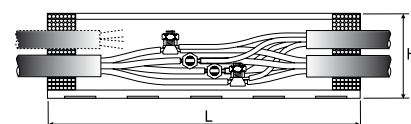
Straight joints with 3,6/6 kV accessories

- for connecting the screen, a complete set is included. Without connectors.

Cable \varnothing min.-max. mm	Cable type and cross section		Dimensions L x H mm	Type
	Straight joints up to 6 kV armoured up to ...mm ²			
26 – 52	3 x 50 up to 3 x 70		430 x 95	GT-A 5 3/6
35 – 65	3 x 95 up to 3 x 120		530 x 120	GT-A 6 3/6
45 – 80	3 x 150 up to 3 x 240		700 x 240	GT-A 7 3/6
50 – 90	3 x 240 up to 3 x 300		900 x 190	GT-A 8 3/6

Straight and branch joints

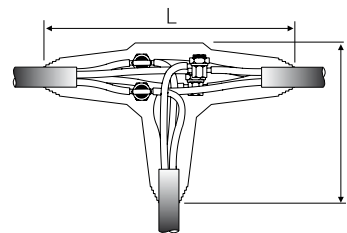
- cylindrical form in two parts with prefabricated sealings
- with PUR-Cast Resin type GA



Cable type and cross section				Dimensions L x H mm	Type
non armoured		armoured			
Main cable up to ...mm ²	Branch cable up to ...mm ²	Main cable up to ...mm ²	Branch cable up to ...mm ²		
4 x 10	4 x 10	4 x 2,5	4 x 2,5	220 x 58	GAV-A 2
4 x 25	4 x 16	4 x 25	4 x 16	300 x 75	GAV-A 3
4 x 70	4 x 35	4 x 70	4 x 25	400 x 95	GAV-A 4
4 x 150	4 x 50	4 x 50	4 x 35	500 x 112	GAV-A 5
4 x 150	4 x 70	4 x 120	4 x 50	610 x 125	GAV-A 6
4 x 185	4 x 150	4 x 150	4 x 50	500 x 145	GAV-A 7

T-shaped branch joints with PUR-Cast Resin type A

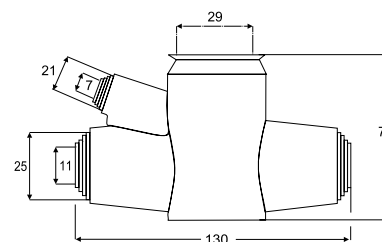
- 90° branching for assembling
- without clamps
- with PUR-Cast Resin type GA in two-chamber mixing bag
- delivered with two-part snap-fit mold body, funnel, endsealing tape and installation drawings



Cable ø min.-max. mm	Cable type and cross section				Dimensions L x B mm	Type
	non armoured Main cable Branch cable up to ...mm ²		armoured Main cable Branch cable up to ...mm ²			
14 – 35	4 x 10	4 x 10	4 x 10	4 x 6	240 x 140 x 52	TM-A 1
16 – 35	5 x 16	5 x 16	4 x 16	4 x 10	270 x 164 x 77	TM-A 2

Y-Branch Joint for polymeric-insulated cable

- indoor and outdoor, ground, water, installation ducts
- for multiple connection of parasitic current anodes in cathodic protection systems
- hit-protected shells made of polycarbonate
- longitudinal and cross-waterproof
- with hydrolysis-resistant PUR-cast resin type GA
- according to VDE 0291 part 2, GNW, GMW, GFW
- mixing procedure can be checked optically
- joints correspond to DIN EN 50393
- for mounting with single clamp



Cable ø mm	Main cable Number of cores x Nominal cross-section mm ²	Branch cable Number of cores x Nominal cross-section mm ²	Article Number	Type
8 – 18	1 x 10 – 1 x 70	1 x 4 – 1 x 70	003 039	GTY-A 0

PUR-Cast Resin type GA

- low hardening temperature
- short hardening time
- halogen-free
- in practical transparent two-chamber mixing bags



Contents ml	Type
100	GAM 100
170	GAM 170
360	GAM 360
470	GAM 470
800	GAM 800
1200	GAM 1200
1800	GAM 1800
2000	GAM 2000

Properties (selection)	Unit	Value
Potlife (processing time)	minutes	12
Shore-Hardness D		50 – 60
Tensile strength	N/mm ²	14
Dielectric factor	23°C and 50 Hz	0,0585
Relative permittivity	23°C and 50 Hz	4,08
Tracking resistance		KA 3c
Mixing time	minutes	3
Processing guarantee	month	31

You find the complete range of **GT** electrotechnical products in the following catalogues:

- Heat shrinking products up to 1 kV
- Heat shrinking products up to 36 kV
- Telecommunication products
- Cable accessories

- Joins, Terminations, Break outs, Tubes
- Straight and Transition Joints, Terminations, Tubes
- Straight and Branch Joints, Endcaps, Connectors
- Tapes, Cable Ties, Earthing Sets, Tools etc.

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