

Straight-through joints

for polymeric-insulated cable up to 1 kV



Application

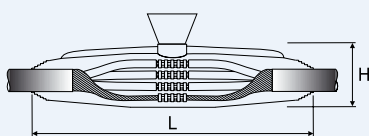
- Indoor and outdoor, ground, water, installation ducts

Advantages

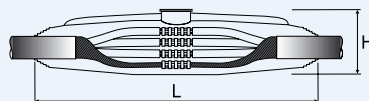
- Hit-proof shells made of polycarbonate
- UV-resistant
- Big splicing space
- Longitudinal and cross-waterproof
- With hydrolysis-resistant PUR-cast resin type GA
- According to VDE 0291 part 2, GNW, GMW, GFW
- Mixing procedure can be checked optically
- With distance holder and lid (GT 0 up to GT 6)
- Joints correspond to DIN EN 50393
- For use in explosive area according to DIN EN 60079-14

Straight-through joints for polymeric-insulated cable up to 1 kV

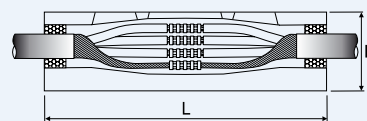
Cable ø mm	Number of cores x Nominal cross-section mm ²	Number of cores x Nominal cross-section mm ²	Dimensions L x H mm	Article Number	Type
11 – 34	3 x 16/16		240 x 57	000 904	GT-A 2
13 – 35	3 x 25/25	3 – 4 x 25	270 x 67	000 905	GT-A 3
17 – 41	3 x 50/50	3 – 4 x 50	360 x 95	000 906	GT-A 4
23 – 48	3 x 95/95	3 – 4 x 95	430 x 108	000 907	GT-A 5
32 – 68	3 x 150/150	3 – 4 x 150	530 x 132	000 908	GT-A 6
45 – 70	3 x 240/240	3 – 4 x 240	700 x 180	000 909	GT-A 7
50 – 80	3 x 300/300	3 – 4 x 300	900 x 190	000 910	GT-A 8



GT 2 up to GT 3



GT 4 up to GT 6



GT 7, GT 8

Delivered set

- Cast resin type GA in transparent mixing bag
- Transparent shells
- Lid and distance holder (GT 0 up to GT 6)
- Funnel (GT 2 up to GT 3)
- Sealing tape (GT 7 and GT 8 foam sealing)
- Protecting gloves
- Mounting instruction

Accessories

- Screw connector
- Compression ferrule
- Cleaning tissue type RT
- Cable cleaner type KR
- Constant force springs type RFS
- Copper braid tube type No. 61

Remarks

Hardened cast resin can be removed with the normal garbage.

T-Branch joint

for polymeric-insulated cable



Application

- Indoor and outdoor, ground, water, installation ducts

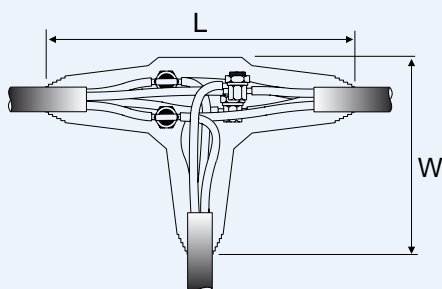
Advantages

- 90° branch
- For mounting with single clamp
- Halogen-free
- Longitudinal and cross-waterproof
- Mixing procedure can be checked optically
- Hit-proof shells made of polycarbonate
- With hydrolysis-resistant PUR-cast resin type GA
- According to VDE 0291 part 2, GNW, GMW, GFW
- Joints correspond to DIN EN 50393
- For use in explosive area according to DIN EN 60079-14

T-Branch joint for polymeric-insulated cable

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	Dimensions L x W x H mm	Article Number	Type
14 – 35	5 x 1,5 – 5 x 10	5 x 1,5 – 5 x 10	240 x 140 x 65	003 007	TM-A 1
16 – 35	5 x 6 – 5 x 16	5 x 6 – 5 x 16	270 x 164 x 85	003 008	TM-A 2

Cable Ø up to mm	Main cable Number of cores x Nominal cross-section mm ²	Branch cable Number of cores x Nominal cross-section mm ²	Dimensions L x W x H mm	Article Number	Type
14 – 35	3 x 6/6	3 x 6/6	240 x 140 x 65	003 007	TM-A 1
16 – 35	3 x 16/16	3 x 16/16	270 x 164 x 85	003 008	TM-A 2



Type TM

Delivered set

- Cast resin type GA in transparent mixing bag
- Transparent shells
- Fill and exhaust funnel
- Sealing tape
- Protecting gloves
- Mounting instruction

Accessories

- Constant force springs
- Stranded copper wire
- Copper split bolt
- Cleaning tissue type RT
- Cable cleaner type KR

Remarks

Hardened cast resin can be removed with the normal garbage.

Standard cast resin type GA



Application

GT cast resin type GA is a 2-component polyurethane-cast resin-system and correspond to DIN VDE 0291 part 2. It can be used for filling or mounting of cable accessories or for parts of them for:

- Power cable up to 0,6/1 kV (LMP/LI-W)
- Power cable up to 6/10 kV (MMP/MI-W)
- Telecommunication- and signal cable

Advantages

- Soft elastic PUR-cast resin (RLS-W)
- High hydrolysis-resistant
- CO₂ gas producing < 10 ml (Hydrophobia)
- Thin-fluid
- Halogen-free
- Excellent adhesive strength on metal and synthetic material
- Resistant against UV-rays and chemical influences
- Mixing procedure can be checked optically
- Low shrinking during hardening
- Good corrosion protection properties
- Soft elastic after hardening
- Good heat transmission
- Resistant against alkaline earths
- Longe storage time up to 40 months
- Hardened cast resin can be removed with the normal garbage
- Continuous temperature stability up to +140 °C (temporary up to + 200 °C) according to IEC 216
- Low hardening temperature
- KEMA tested, according to DIN VDE 0291 – draft 06/1997

Standard cast resin type GA

Content ml	Weight kg	Article Number	Type
100	0,14	020 109	GAM 100
170	0,23	020 170	GAM 170
360	0,49	020 359	GAM 360
470	0,64	020 459	GAM 470
800	1,09	020 759	GAM 800
1200	1,63	020 129	GAM 1200

Other package sizes on request.

Cast resin in tins on request.

Delivered set

- Cast resin type GA in transparent mixing bag with protection bag
- Protecting gloves
- Mounting instruction

Remarks

Hardened cast resin can be removed with the normal garbage.

Standard cast resin type GA

Properties	Value	Requirements DIN VDE 0291, part 2
Potlife (Processing time) 100 ml sample	31 min./5 °C 12 min./23 °C 8 min./35 °C	Conformity to manufacturer's datas (± 30%)
Gel time	15 min.	Conformity to manufacturer's datas (± 30%)
Max. reaction temperature	70 °C	Conformity to manufacturer's datas (± 10K)
Hardening	2 h RT	
Density	1,4 g/cm ³	DIN 53479
Pressure resistance (30% compressing)	9,07 N/mm ²	> 8 N/mm ²
Remaining deformation 24 h after removal load	< 0,3%	max. 10%
Resistance to tearing by Siemens	8,4 N/mm ²	at least 5 N/mm ²
Residual thrust module at 80 °C	3,86 N/mm ²	at least 2 N/mm ²
Total volume loss at hardening	0,5%	max. 4
Shore - Hardness D	50 – 60	at least 30
Tensile strength	14 N/mm ²	Conformity to manufacturer's datas (± 20%)
Elongation at break	62%	Conformity to manufacturer's datas (± 30%)
Thermal conductivity	0,5 W/K x m	Conformity to manufacturer's datas (± 20%)
Water absorption (24 h/23 °C)	18 mg	max. 25 mg
Water absorption (42 d/50 °C)	243 mg	max. 400 mg
Loss of weight after heat treatment (8 weeks at 80 °C)	1,5%	max. 3%
Combustibility	19 mm/min. (BH 3)	according to IEC 707 BH
Electrolytic corrosion	A 1	DIN 16946
Volume resistance	3,4 E + 14 Ω · cm	dry
4 d 80% r. F.	1,5 E + 14 Ω · cm	
1 d storage in water	7,3 E + 13 Ω · cm	
Dielectric dissipation factor		No breakdown at tests
at 23 °C and 50 Hz	0,0585	
at 23 °C and 1 kHz	0,0362	
Relative perwithtivity		max. 6
at 23 °C and 50 Hz	4,08	
at 23 °C and 1 kHz	3,74	
Tracking resistance		KA 3c
Test liquid A	CTI 600-0,1	
Test liquid B	CTI 600-0,0	
1 min. testing voltage		No breakdown at tests
at 23 °C	> 20 kV	
at 80 °C	> 10 kV	
Temperature resistance	-25 °C up to +140 °C	Continuous load after hardening
Processing guarantee, minimum	40 month	
Mixing time	3 min.	