

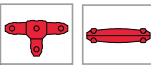




LOW VOLTAGE

Cast resin technology

	Straight-through joints	75
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Overview: BBC Cellpack Cast resin straight-through and branch joints / Universal connection and branch boxes

Products	Version		Type of cast resins				
	with screw connector(s)	with branch clamp(s)	EG	GG	CG	FG	UWR
Straight-through joints							
MR 0	-	-	●	-	-	-	-
M...EG	-	-	●	-	-	-	-
M...GG	-	-	-	●	-	-	-
M-Euroline	-	-	●	-	-	-	-
M...V-Euroline	●	-	●	-	-	-	-
MZ	-	-	●	-	-	-	-
MZ...FG	-	-	-	-	-	●	-
PV...EG, PVM...EG, PVS...EG	-	-	●	-	-	-	-
PVS...GG	-	-	-	●	-	-	-
Branch joints							
KAV	-	-	●	-	-	-	-
H	-	-	●	-	-	-	-
H 5-SYS	-	●	-	-	-	-	●
P...EG	-	-	●	-	-	-	-
P...GG	-	-	-	●	-	-	-
T...EG	-	-	●	-	-	-	-
T...GG	-	-	-	●	-	-	-
T...V AK	-	●	●	-	-	-	-
Y...EG	-	-	●	-	-	-	-
Y...GG	-	-	-	●	-	-	-
Y...V AK	-	●	●	-	-	-	-
YCP	-	-	●	-	-	-	-
D1	-	-	●	-	-	-	-
Straight-through and branch joints							
M1	-	●	●	-	-	-	-
T1	-	●	●	-	-	-	-
Y1	-	●	●	-	-	-	-
Universal connection and branch boxes							
Universal Box CG	-	●	-	-	●	-	-

- included in the scope of delivery
- not included in the scope of delivery

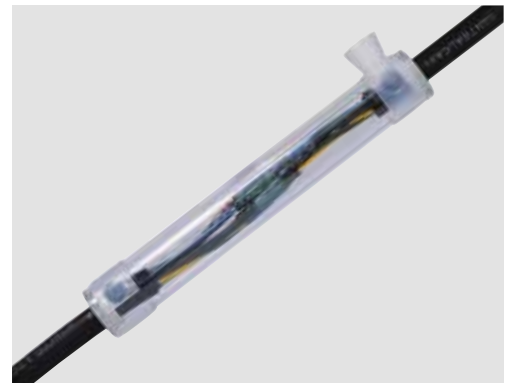


MR 0

Cast resin straight-through joint

particularly for small cross sections, for polymeric cables and conductors, control cables and signal cables

Universally suitable for connecting polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT). Suitable for compression connectors on copper and aluminium conductors.



Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Funnel clips for easy casting
- Suitable for vertical casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Submersible pumps
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

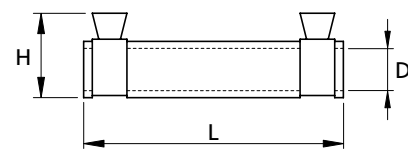
Test standards

- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 40 months






Dimensions

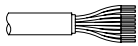


Scope of delivery

Cover, hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, PVC insulation tape, protective gloves, funnel clips, assembly instructions

Optional accessory: Funnel set/Filling in funnel (on request)
Heat shrinkable crimp connector (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

						Polymeric cable					
						unarmoured					
											
Type	L mm	D mm	H mm	max. Cable-Ø mm	Nominal cross section per conductor mm ²					Art.-No.	
MR	02	120	26	40	16	25	6	4	2.5	1.5	124507
	05	180	26	40	16	25	6	4	4	2.5	124508

						Control and signal cable			
									
						0.75 mm ²	1.5 mm ²		
Type	L mm	D mm	H mm	max. Cable-Ø mm	Number of conductors			Art.-No.	
MR	02	120	26	40	16	8	5	124507	
	05	180	26	40	16	16	8	124508	



M...EG

Cast resin straight-through joint

for polymeric cables and conductors, control cables and signal cables

Universally suitable for connecting polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT). Suitable for compression or screw connectors on copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- $U_0/U (U_m)$ 0.6/1 (1.2) kV

Test standards

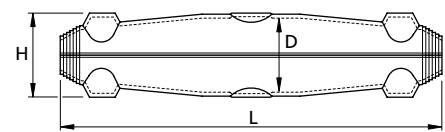
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

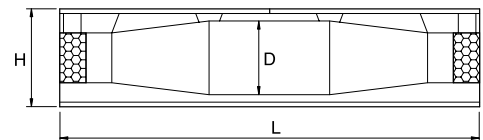
- Cast resin up to 40 months



Dimensions



M 0 EG - M 6 EG



M 7 EG - M 8 EG

Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, fill and air-release funnels, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Shield continuity wire SVL (see Accessories)
Connectors (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Note: Armour continuity kit for armoured cable available on request.

Type	L mm	D mm	H mm	max. Cable-Ø mm	Polymeric cable										Art.-No.	
					unarmoured					with concentric conductor		armoured				
					1x	2x	3x	4x	5x	3x	4x	3x	4x			
					max. Nominal cross section per conductor mm ²											
M 0 EG	185	32	37	15	25	10	6	6	4							124293
M 1 EG	240	40	45	22	95	25	16	16	10	10/10						124294
M 2 EG	265	45	50	30	185	50	35	25	16	25/25	16/16	16	16		124295	
M 2.5 EG	310	58	65	37	300	70	70	50	35	35/35	25/25	35	16 - 35		124296	
M 3 EG	355	70	80	42	400	120	95	70	50	50/50	50/25	50	35 - 50		124297	
M 4 EG	430	90	98	52	500		120	95	70	95/95	70/35	95	50 - 95		124298	
M 5 EG	550	110	120	62	1000		240	185	120	150/150	120/70	120	95 - 120		124299	
M 6 EG	660	145	165	80			300	240	185	240/240	240/120	240	120 - 240		124300	
M 7 EG	900	150	190	90			400	300	240						124308	
M 8 EG	1100	150	190	90						400/400	300/150	400	300 - 400		124309	

Type	L mm	D mm	H mm	max. Cable-Ø mm	Control and signal cable					Art.-No.
					0,4 mm		0,6 mm		0,8 mm	
					Number of wire pairs		Number of wire pairs		Number of conductors	
M 0 EG	185	32	37	15	6 - 20	6 - 10	6	16	8	124293
M 1 EG	240	40	45	22	30 - 70	20 - 30	10 - 20	56	21	124294
M 2 EG	265	45	50	30	100 - 150	40 - 70	30 - 40	114	56	124295
M 2.5 EG	310	58	65	37	200 - 250	100 - 120	50 - 70	154	96	124296
M 3 EG	355	70	80	42	300	150	100 - 120	200	133	124297

Shield continuity wire SVL required for telecommunication cables.



M...GG

Cast resin straight-through joint

for polymeric cables and conductors, control cables and signal cables

Universally suitable for connecting polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT). Suitable for compression or screw connectors on copper and aluminium conductors.

Characteristics

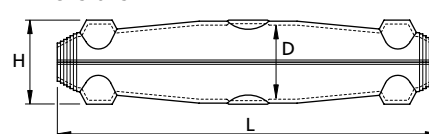
- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
 - Outdoor
 - Underground
 - Water
 - Installation ducts
- Voltage level**
- U_0/U_m 0.6/1 (1.2) kV
- Test standards**
- DIN EN 50393 (corresponds to VDE 0278)
- Storage conditions/Shelf life**
- Cast resin up to 24 months



Dimensions



M 0 GG - M 6 GG

Scope of delivery

Hydrolysis resistance PUR type GG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, fill and air-release funnels, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Shield continuity wire SVL (see Accessories)
Connectors (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Note: Armour continuity kit for armoured cable available on request.

		Polymeric cable													
		unarmoured					with concentric conductor		armoured						
		1x	2x	3x	4x	5x	3x	4x	3x	4x					
Type	L mm	D mm	H mm	max. Cable-Ø mm	max. Nominal cross section per conductor mm ²										Art.-No.
M	0 GG	185	32	37	15	25	10	6	6	4					353703
	1 GG	240	40	45	22	95	25	16	16	10	10/10				353717
	2 GG	265	45	50	30	185	50	35	25	16	25/25	16/16	16	16	353718
	2.5 GG	310	58	65	37	300	70	70	50	35	35/35	25/25	35	16 - 35	353719
	3 GG	355	70	80	42	400	120	95	70	50	50/50	50/25	50	35 - 50	353740
	4 GG	430	90	98	52	500		120	95	70	95/95	70/35	95	50 - 95	353741
	5 GG	550	110	120	62	1000		240	185	120	150/150	120/70	120	95 - 120	353742
	6 GG	660	145	165	80			300	240	185	240/240	240/120	240	120 - 240	353743

		Control and signal cable															
							0,4 mm		0,6 mm		0,8 mm	0,75 mm ²		1,5 mm ²			
							Number of wire pairs					Number of conductors					
Type	L mm	D mm	H mm	max. Cable-Ø mm											Art.-No.		
M	0 GG	185	32	37	15	6 - 20					6 - 10		6	16		8	353703
	1 GG	240	40	45	22	30 - 70					20 - 30		10 - 20	56		21	353717
	2 GG	265	45	50	30	100 - 150					40 - 70		30 - 40	114		56	353718
	2.5 GG	310	58	65	37	200 - 250					100 - 120		50 - 70	154		96	353719
	3 GG	355	70	80	42	300					150		100 - 120	200		133	353740

Shield continuity wire SVL required for telecommunication cables.



M-Euroline Cast resin straight-through joint

for polymeric cables and conductors

Universally suitable for connecting polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT). Suitable for compression or screw connectors on copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

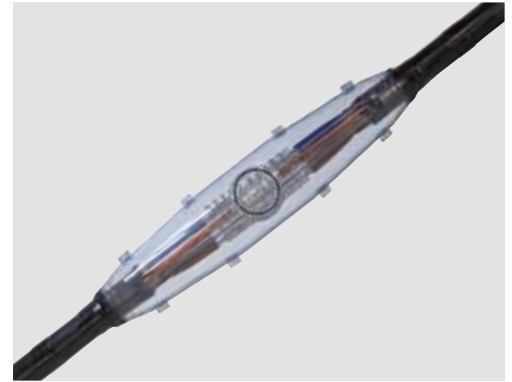
- U_0/U_m 0.6/1 (1.2) kV

Test standards

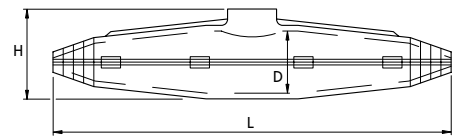
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

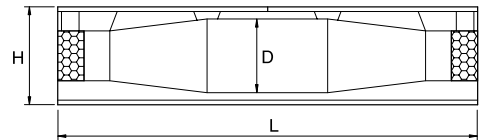
- Cast resin up to 40 months



Dimensions



M 11 - M 16



M 17

Scope of delivery

Cover, hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, spacers (up to M13), PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Connectors (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Note: Armour continuity kit for armoured cable available on request.

Polymeric cable						
unarmoured				with concentric conductor		armoured
1x	3x	4x	5x	3x	4x	4x

Type	L mm	D mm	H mm	max. Cable-Ø mm	max. Nominal cross section per conductor mm ²							Art.-No.	
M	11	190	36	50	26	50	10	10	6	10/10		4	124169
	12	260	47	63	34	150	25	25	16	25/25	16/16	10	124170
	13 S	310	55	68	43	240	35	35	25	35/35	25/16	25	124171
	13	360	55	75	43	400	50	50	35	50/50	25/16	35	124172
	14 S	350	70	95	48	630	70	70	50	70/70	50/50	50	124173
	14	400	70	95	48	630	95	95	70	95/95	50/50	70	124174
	15	530	100	120	63	1000	150	150	120	150/150	120/70	120	124175
	16	700	125	160	81		240	240	185	240/120	185/70	240	124176
	17	900	150	190	90		300	400	240	300/300	240/120	240	169406



M...V-Euroline

Cast resin straight-through joint

with screw connectors, for polymeric cables and conductors

Universally suitable for connecting polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT). With screw connectors, suitable for aluminium or copper conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m (U_m) 0.6/1 (1.2) kV

Test standards

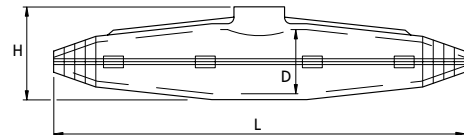
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 40 months



Dimensions



Scope of delivery

Cover, hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, screw connectors, spacers, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Type	L mm	D mm	H mm	max. Cable-Ø mm	Polymeric cable					Art.-No.	
					unarmoured			with concentric conductor			
					3x	4x	5x	3x	4x		
M	11 V	190	36	50	26	1.5 - 6	1.5 - 6	1.5 - 6	1.5/1.5 - 6/6	1.5/1.5 - 6/6	131863
	12 V	260	47	63	34	10 - 16	10 - 16	10 - 16	10/10 - 16/16	10/10 - 16/16	131867
	13 SV	310	55	68	43	16 - 25	16 - 25		16/16 - 25/25		131866
	13 V	360	55	75	43	25 - 35	25 - 35		25/25 - 35/35		131864
	14 V	400	70	95	48	50 - 70	50 - 70		50/50 - 70/70		131865



MZ

Cast resin straight-through joint

for control cables and signal cables

Universally suitable for connecting control cables and signal cables or as a cable sheath repair protection joint. Suitable for compression connectors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

Test standards

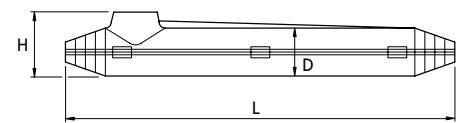
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

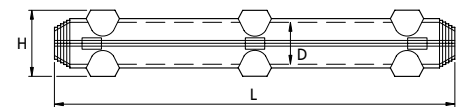
- Cast resin up to 40 months



Dimensions



MZ 00 - MZ 0



MZ 1 - MZ 3

Scope of delivery

Cover, hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, spacer mesh, fill and air-release funnels, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Shield continuity wire SVL (see Accessories)
 Compression connectors (see Connecting technology)
 Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Type	L mm	D mm	H mm	max. Cable-Ø mm	Control and signal cable					Art.-No.
					0.4 mm	0.6 mm	0.8 mm	1.5 mm ²	2.5 mm ²	
					Number of wire pairs			Number of conductors		
MZ 00	180	23	35	20	10 - 15	5 - 10	5 - 10	7	5	124505
MZ 0	250	35	55	32	15 - 30	10 - 20	10 - 20	15	10	124506
MZ 1	400	33	57	30	30 - 60	20 - 50	20 - 40	30	20	124510
MZ 2	500	41	67	40	70 - 100	60 - 100	50 - 70	50	40	124513
MZ 3	600	51	78	50	150 - 200	150 - 250	100 - 150	60	50	124511

Shield continuity wire SVL required for telecommunication cables.



MZ...FG

Cast resin straight-through joint

drummable, with flexibel cast resin, for unarmoured polymeric cables and conductors

Universally applicable as repair joints for flexible rubber cable.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

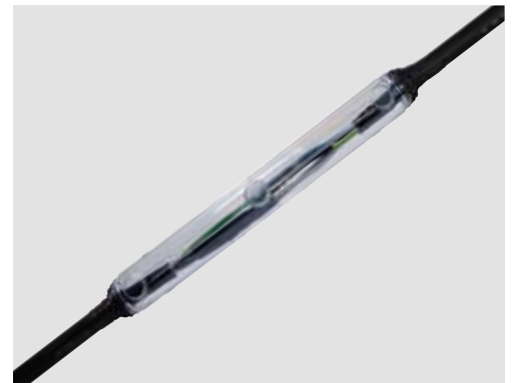
- U_0/U_m 0.6/1 (1.2) kV

Test standards

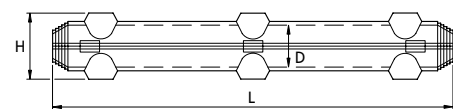
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 24 months



Dimensions



Scope of delivery

Hydrolysis resistance PUR type FG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, heat shrinkable tubes for connectors, fill and air-release funnels, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Cleaner UNIVERSAL CLEANER 121 (see Accessories)

		Polymeric cable						
		unarmoured						
		4x			5x			
Type	L mm	D mm	H mm	max. Cable-Ø mm	max. Nominal cross section per conductor mm ²		Art.-No.	
MZ	2 FG	500	41	67	40	25	16	124517
	3 FG	600	51	78	50	50	25	124518



PV...EG, PVM...EG, PVS...EG Cast resin straight-through joint

with integrated strain relief, for polymeric cables and conductors, with cast resin EG

Universally suitable for connecting polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, TT). Suitable for compression or screw connectors on copper and aluminium conductors.

Characteristics

- Compact dimensions
- High-quality brown shockproof plastic shell
- Integrated strain relief
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

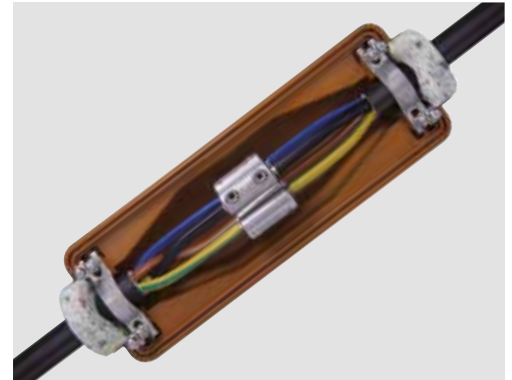
- U_0/U_m 0.6/1 (1.2) kV

Test standards

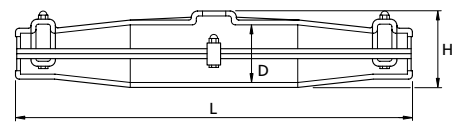
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 40 months







Dimensions



Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, sealing gaskets, plastic shell, protective gloves, strain relief, assembly instructions

Optional accessory: Connectors (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

				Polymeric cable			
				unarmoured		with concentric conductor	
							
				3x	4x	3x	4x

Type	L mm	D mm	H mm	max. Cable-Ø mm	Nominal cross section per conductor mm ²				Art.-No.	
PV	3 EG	427	100	120	40	50 - 95	35 - 70	70/70	50/50	127705
PVM	5 EG	642	116	135	58	95 - 150	95 - 150	150/150	120/120	127706
PVS	5 EG	642	136	160	48	95 - 150	95 - 150	150/150	120/120	127708
PVM	6 EG	850	137	185	58	185 - 300	185 - 240	240/120	185/185	127707



PVS...GG

Cast resin straight-through joint

with integrated strain relief, for polymeric cables and conductors, with cast resin GG (reduced hazard-class)

Universally suitable for connecting polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, TT). Suitable for compression or screw connectors on copper and aluminium conductors.

Characteristics

- Compact dimensions
- High-quality brown shockproof plastic shell
- Integrated strain relief
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

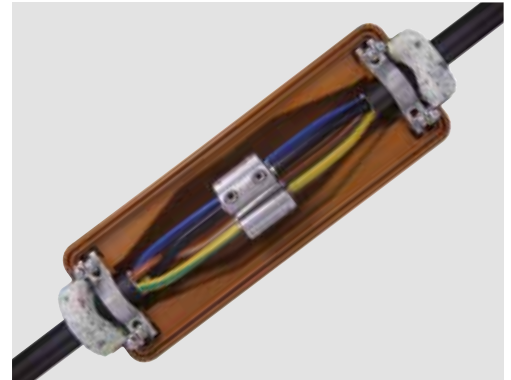
- U_0/U_m (U_m) 0.6/1 (1.2) kV

Test standards

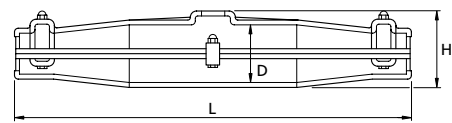
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 24 months







Dimensions



Scope of delivery

Hydrolysis resistance PUR type GG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, sealing gaskets, plastic shell, protective gloves, strain relief, assembly instructions

Optional accessory: Connectors (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

						Polymeric cable				
						unarmoured		with concentric conductor		
										
						3x	4x	3x	4x	
Type	L mm	D mm	H mm	max. Cable-Ø mm	Nominal cross section per conductor mm ²				Art.-No.	
PVS	5 GG	642	136	160	48	95 - 150	95 - 150	150/150	120/120	335567



KAV

Cast resin branch joint

for polymeric cables and conductors

Universally suitable for branching cables and conductors insulated with PVC, PE and XLPE (e.g. N(A)YY, GKN). Suitable for cable branch clamps / ring clamps and compression connectors on copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

Test standards

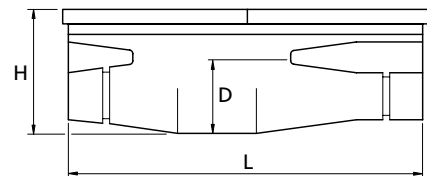
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 40 months



Dimensions



KAV 1 - KAV 2

Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, sealing gaskets, transparent plastic shell with locking bar, sealing tape, protective gloves, assembly instructions

- Optional accessory:
- Ring clamp (see Connecting technology)
 - Screw branch clamp AK (see Connecting technology)
 - Split bolt clamp FK (see Connecting technology)
 - Compression connectors (see Connecting technology)
 - Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Note: Additional earthing set available on request.

Type	L mm	D mm	H mm	max. Cable-Ø mm		Polymeric cable				Art.-No.	
				Main cable	Branch cable	unarmoured	armoured	Nominal cross section per conductor mm ²			
						4x		4x			Main cable
KAV	1	230	58	78	30	20	16	6	6	4	131095
	2	270	58	78	33	20	25	10	6	4	124861



H Cast resin branch joint

for polymeric cables and conductors

Universally suitable for branching cables and conductors insulated with PVC, PE and XLPE (e.g. N(A)YY, TT...). Suitable for assembly of individual one-core branch clamps according to type (split bolt clamps for H 1 and H 2) or branch clamps (H 5...and H 6) and compression or screw connectors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Can be used as double-branch joint (H 1 and H 2)
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

Test standards

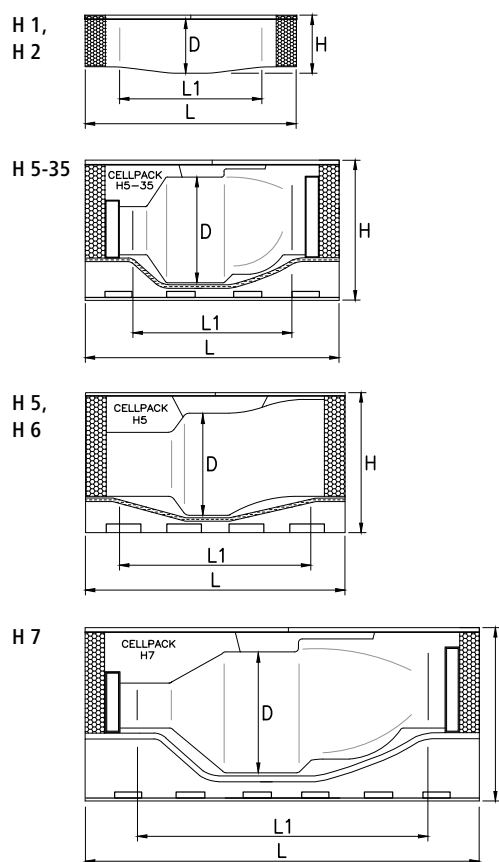
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 40 months



Dimensions



Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, sealing gaskets, transparent plastic shell, centring elements (H 5-35 and H 7), steel clamps (H 5 and H 6), protective gloves, assembly instructions

Optional accessory: Screw branch clamp AK (see Connecting technology)
Branch clamp HE 1/70/150 (see Connecting technology)
Split bolt clamp FK (see Connecting technology)
Connectors (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Note: H5 branch joints can be used with branch clamps HE 1/70/150 (see Connecting technology).

Polymeric cable	
unarmoured	with concentric conductor
4x	3x

Type	L mm	L1 mm	D mm	H mm	max. Cable-Ø mm		Nominal cross section per conductor mm ²				Art.-No.	
					Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable		
H	1	235	155	60	70	25	20	16	6			124789
	2	270	180	60	80	32	22	16 - 25	6 - 10			124790
	5	300	246	115	170	50	32	95 - 150	16 - 50			124787
	5-35	290	180	135	185	52	36	95 - 150	16 - 70			124815
	6	350	296	135	190	55	39	120 - 185	50 - 70	120/70 - 150/70	35/16 - 70/35	124788
	7	490	330	180	230	59	54	95 - 240	70 - 150	95/95 - 240/240	70/70 - 150/150	124786



H 5-SYS

Cast resin branch joint for house connections

with branch clamp, for unarmoured polymeric cables

For branching of cables with insulation made of PVC, PE and XLPE (e.g. N(A)YY, GN-CLN...). With branch clamp, suitable for copper and aluminium conductors.

Characteristics

- High-quality transparent shockproof plastic shell
- Cast resin can be poured in with an angle up to 45° or laterally up to 45°
- Compatible with a branching system with specific contact geometry designed to facilitate connection of branch cable in visible area, ensuring safe handling
- Easy seal application
- Large filler aperture to facilitate casting
- Can be installed / operated while under voltage
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

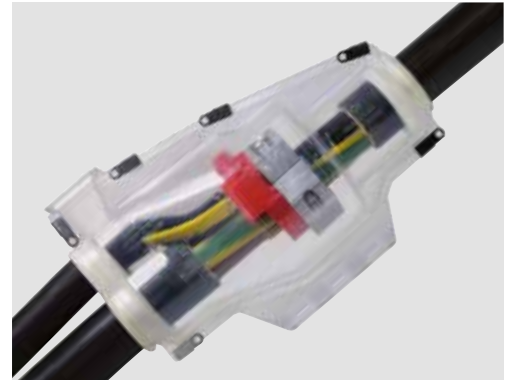
- U_0/U_m 0.6/1 (1.2) kV

Test standards

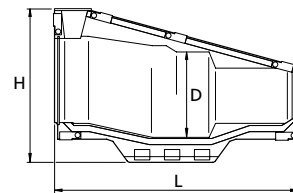
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 24 months



Dimensions

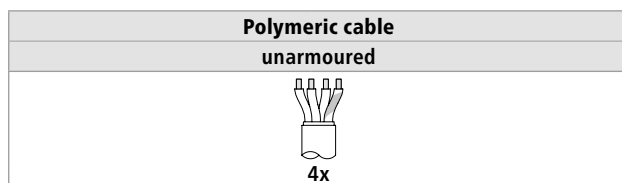


Scope of delivery

Hydrolysis resistance PUR type UWR cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, branch clamp HE 1/70/150, sealing tapes, protective gloves, assembly instructions

Optional accessory: Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Type	L mm	D mm	H mm	max. Cable-Ø mm		Nominal cross section per conductor mm ²			Art.-No.
				Main cable	Branch cable	Main cable SE	Main cable SM	Branch cable	
H 5-SYS 70-150	270	110	180	46	36	95 - 150	70 - 120	16 - 50	195816





P...EG

Cast resin branch joint

with integrated strain relief, for polymeric cables and mass-impregnated paper cables, with cast resin EG

Universally suitable for branching polymeric cables insulated with PVC, PE, XLPE and paper (e.g. N(A)YY, N(A)KBA, GN-CLN, TT) with or without concentric conductor and mass-impregnated paper cables. Suitable for branch clamps on copper and aluminium conductors.

Characteristics

- High-quality brown shockproof plastic shell
- Compact design
- Integrated strain relief
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

Test standards

- DIN EN 50393 (corresponds to VDE 0278)

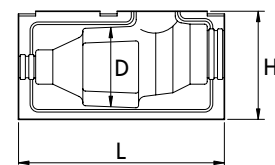
Storage conditions/Shelf life

- Cast resin up to 40 months

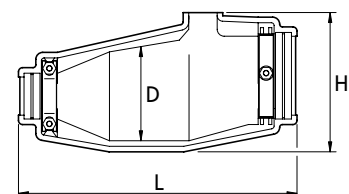


Dimensions

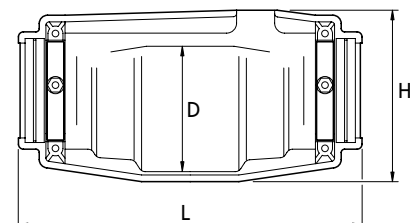
P 2 EG



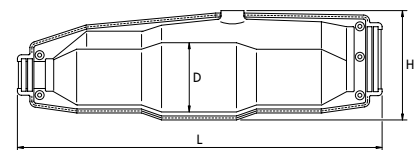
P 3 EG,
PC 5 EG,
PC 7 EG



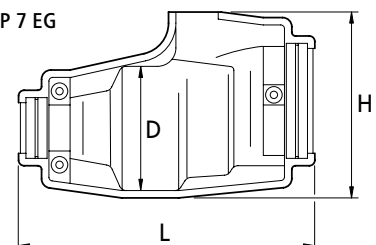
PD 5 EG



PB 4 EG,
PE 7 EG



P 4 EG - P 7 EG



Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, sealing gaskets, plastic shell with integrated strain relief, hexagon head screws and nuts, assembly instructions

Optional accessory: Branch clamp HE 1/70/150 (see Connecting technology)
Branch clamp KP (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Note: For branch joints sizes larger than P 5 EG, branch clamps HE 1/70/150 can be used (see Connecting technology).




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→ Continuation

P...EG Cast resin branch joint

LOW VOLTAGE
Cast resin technology

Mass-impregnated paper cable		Polymeric cable unarmoured	
			
3x	4x	4x	

Type	L mm	D mm	H mm	max. Cable-Ø mm		Nominal cross section per conductor mm ²				Art.-No.	
				Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable		
P	2 EG	240	90	127	13 - 25	13 - 25			2.5 - 16	2.5 - 16	127697
	3 EG	342	90	160	15 - 35	12 - 30	10 - 16	10 - 16	10 - 25	4 - 16	127703
	4 EG	302	113	200	28 - 45	21 - 34			50 - 95	16 - 35	127698
	5 EG	325	135	200	37 - 54	20 - 36			95 - 150	16 - 50	127733
	6 EG	432	135	210	44 - 59	28 - 45			150 - 185	50 - 95	127695
	7 EG	442	150	245	40 - 59	40 - 59			120 - 185	120 - 150	127696
	PD	5 EG	427	130	212	37 - 54	20 - 36			95 - 150	16 - 50
PC	5 EG	392	130	210	35 - 54	20 - 36			95 - 185	16 - 50	127699
	7 EG	472	150	225	40 - 59	40 - 50			150 - 240	50 - 95	127700
PB	4 EG	532	120	200	30 - 50	27 - 44	95 - 150	95 - 150	95 - 150	50 - 95	127763
PE	7 EG	692	180	285	40 - 59	40 - 59			150 - 240	120 - 185	127709

Polymeric cable with concentric conductor	
	
3x	4x

Type	L mm	D mm	H mm	max. Cable-Ø mm		Nominal cross section per conductor mm ²				Art.-No.	
				Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable		
P	2 EG	240	90	127	13 - 25	13 - 25					127697
	3 EG	342	90	160	15 - 35	12 - 30	10/10 - 16/16	4/4 - 16/16	10/10 - 16/16	4/4 - 16/16	127703
	4 EG	302	113	200	28 - 45	21 - 34					127698
	5 EG	325	135	200	37 - 54	20 - 36					127733
	6 EG	432	135	210	44 - 59	28 - 45					127695
	7 EG	442	150	245	40 - 59	40 - 59					127696
	PD	5 EG	427	130	212	37 - 54	20 - 36				
PC	5 EG	392	130	210	35 - 54	20 - 36	95/95 - 150/150	16/16 - 50/50	95/95 - 150/150	16/16 - 50/50	127699
	7 EG	472	150	225	40 - 59	40 - 50	150/150 - 185/185	50/50 - 95/95	150/150 - 185/185	50/50 - 95/95	127700
PB	4 EG	532	120	200	30 - 50	27 - 44		50/50 - 95/95		50/25 - 95/50	127763
PE	7 EG	692	180	285	40 - 59	40 - 59					127709



P...GG

Cast resin branch joint

with integrated strain relief, for polymeric cables and mass-impregnated paper cables, with cast resin GG (reduced hazard-class)

Universally suitable for branching polymeric cables insulated with PVC, PE, XLPE and paper (e.g. N(A)YY, N(A)KBA, GN-CLN, TT) with or without concentric conductor and mass-impregnated paper cables. Suitable for branch clamps on copper and aluminium conductors.

Characteristics

- High-quality brown shockproof plastic shell
- Compact design
- Integrated strain relief
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

Test standards

- DIN EN 50393 (corresponds to VDE 0278)

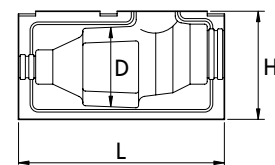
Storage conditions/Shelf life

- Cast resin up to 24 months

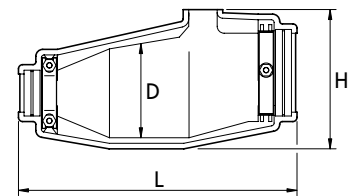


Dimensions

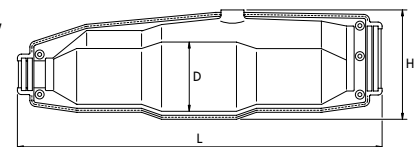
P 2 GG



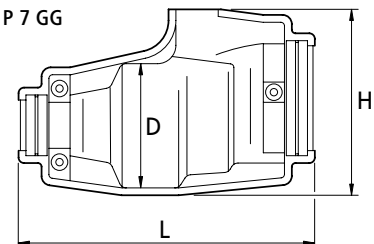
P 3 GG,
PC 5 GG



PB 4 GG,
PE 7 GG



P 5 GG - P 7 GG



Scope of delivery

Hydrolysis resistance PUR type GG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, sealing gaskets, plastic shell with integrated strain relief, hexagon head screws and nuts, assembly instructions

Optional accessory: Branch clamp HE 1/70/150 (see Connecting technology)
Branch clamp KP (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Note: For branch joints sizes larger than P 5 GG, branch clamps HE 1/70/150 can be used (see Connecting technology).

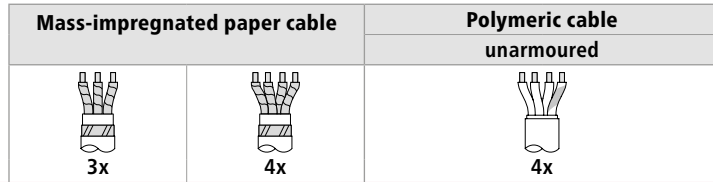
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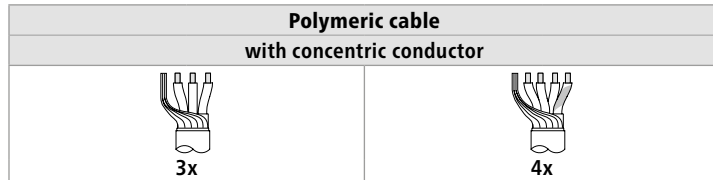
→ Continuation

P...GG Cast resin branch joint

LOW VOLTAGE
Cast resin technology



Type	L mm	D mm	H mm	max. Cable-Ø mm		Nominal cross section per conductor mm ²				Art.-No.	
				Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable		
P	2 GG	240	90	127	13 - 25	13 - 25			2.5 - 16	2.5 - 16	329587
	3 GG	342	90	160	15 - 35	12 - 30	10 - 16	10 - 16	10 - 25	4 - 16	329589
	5 GG	325	135	200	37 - 54	20 - 36			95 - 150	16 - 50	329567
	6 GG	432	135	210	44 - 59	28 - 45			150 - 185	50 - 95	329569
	7 GG	442	150	245	40 - 59	40 - 59			120 - 185	120 - 150	329588
PC	5 GG	392	130	210	35 - 54	20 - 36			95 - 185	16 - 50	335566
PB	4 GG	532	120	200	30 - 50	27 - 44	95 - 150	95 - 150	95 - 150	50 - 95	329572
PE	7 GG	692	180	285	40 - 59	40 - 59			150 - 240	120 - 185	335565



Type	L mm	D mm	H mm	max. Cable-Ø mm		Nominal cross section per conductor mm ²				Art.-No.	
				Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable		
P	2 GG	240	90	127	13 - 25	13 - 25					329587
	3 GG	342	90	160	15 - 35	12 - 30	10/10 - 16/16	4/4 - 16/16	10/10 - 16/16	4/4 - 16/16	329589
	5 GG	325	135	200	37 - 54	20 - 36					329567
	6 GG	432	135	210	44 - 59	28 - 45					329569
	7 GG	442	150	245	40 - 59	40 - 59					329588
PC	5 GG	392	130	210	35 - 54	20 - 36	95/95 - 150/150	16/16 - 50/50	95/95 - 150/150	16/16 - 50/50	335566
PB	4 GG	532	120	200	30 - 50	27 - 44		50/50 - 95/95		50/25 - 95/50	329572
PE	7 GG	692	180	285	40 - 59	40 - 59					335565



T...EG

Cast resin branch joint

for polymeric cables and conductors

Universally suitable for branching polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT) with or without concentric conductor. Suitable for branch clamps on copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- $U_0/U (U_m)$ 0.6/1 (1.2) kV

Test standards

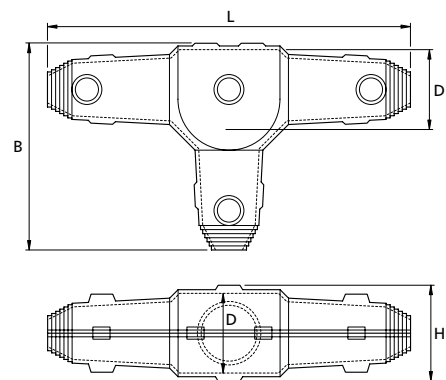
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 40 months



Dimensions



Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, fill and air-release funnels, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Screw branch clamp AK (see Connecting technology)
Branch clamp KP (see Connecting technology)
Split bolt clamp FK (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Polymeric cable unarmoured												
Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm	max. Nominal cross section per conductor mm ²						Art.-No.
						3x		4x		5x		
						Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable	
1 EG	240	138	50	60	22	10	10	6	6	4	4	131149
2 EG	267	154	60	70	30	25	25	16	10	10	10	133024
2.5 EG	310	183	75	85	37	50	50	35	16	16	10	131855
3 EG	354	212	90	100	42	70	70	50	25	25	16	131151
4 EG	432	262	110	125	52	120	120	95	50	50	35	131778
5 EG	550	290	130	155	62	185	150	185	70			131854

Polymeric cable with concentric conductor												
Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm	max. Nominal cross section per conductor mm ²				Art.-No.		
						3x		4x				
						Main cable	Branch cable	Main cable	Branch cable			
1 EG	240	138	50	60	22	6/6	6/6					131149
2 EG	267	154	60	70	30	16/16	10/10	16/16	16/16			133024
2.5 EG	310	183	75	85	37	35/35	16/16	35/16	25/16			131855
3 EG	354	212	90	100	42	50/50	25/25	50/25	35/16			131151
4 EG	432	262	110	125	52	95/95	50/50	95/50	70/35			131778
5 EG	550	290	130	155	62	185/185	70/70	150/70	95/50			131854



T...GG

Cast resin branch joint

for polymeric cables and conductors

Universally suitable for branching polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT) with or without concentric conductor. Suitable for branch clamps on copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- $U_0/U (U_m)$ 0.6/1 (1.2) kV

Test standards

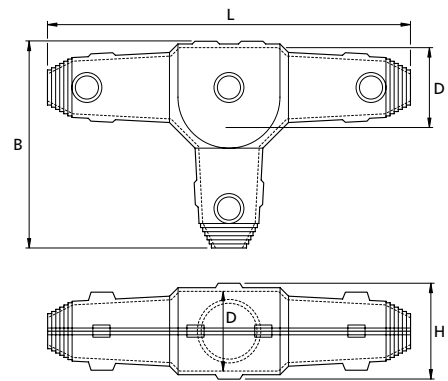
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 24 months



Dimensions



Scope of delivery

Hydrolysis resistance PUR type GG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, fill and air-release funnels, PVC insulation tape, protective gloves, assembly instructions

- Optional accessory: Screw branch clamp AK (see Connecting technology)
 Branch clamp KP (see Connecting technology)
 Split bolt clamp FK (see Connecting technology)
 Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Polymeric cable unarmoured												
Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm	max. Nominal cross section per conductor mm ²						Art.-No.
						Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable	
1 GG	240	138	50	60	22	10	10	6	6	4	4	353846
2 GG	267	154	60	70	30	25	25	16	10	10	10	353847
2.5 GG	310	183	75	85	37	50	50	35	16	16	10	353848
3 GG	354	212	90	100	42	70	70	50	25	25	16	353849
4 GG	432	262	110	125	52	120	120	95	50	50	35	353860

Polymeric cable with concentric conductor												
Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm	max. Nominal cross section per conductor mm ²				Art.-No.		
						Main cable	Branch cable	Main cable	Branch cable			
1 GG	240	138	50	60	22	6/6	6/6					353846
2 GG	267	154	60	70	30	16/16	10/10	16/16		16/16		353847
2.5 GG	310	183	75	85	37	35/35	16/16	35/16		25/16		353848
3 GG	354	212	90	100	42	50/50	25/25	50/25		35/16		353849
4 GG	432	262	110	125	52	95/95	50/50	95/50		70/35		353860



T...V FKM

Cast resin branch joint

with split bolt branch clamps, for polymeric cables and conductors

Universally suitable for branching polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM). With one-core branch clamps, suitable for copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m (U_m) 0.6/1 (1.2) kV

Test standards

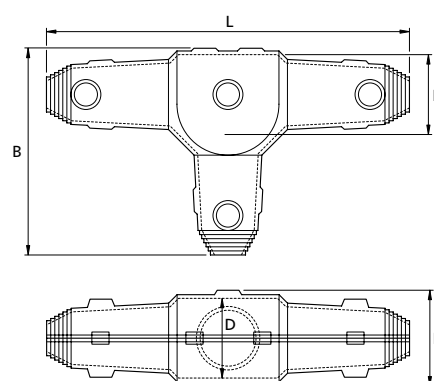
- DIN EN 50393

Storage conditions/Shelf life

- Cast resin up to 40 months



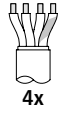
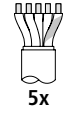
Dimensions



Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, fill and air-release funnels, screw branch clamps, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Type	L mm	B mm	D mm	H mm	Cable-Ø mm		Nominal cross section per conductor mm ²				Art.-No.	
					Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable		
												Polymeric cable unarmoured
							 4x	 5x				
T	1 V FKM	240	138	50	60	9-22	9-22	2.5 - 6	1.5 - 6	2.5 - 6	1.5 - 6	436820
	2 V FKM	267	154	60	70	17-30	17-30	4-16	4-16	4-16	4-16	436821
	2.5 V FKM	310	183	75	85	21-37	21-37	6 - 25	6 - 25	6 - 25	6 - 25	436822

**Y...EG****Cast resin branch joint**

for polymeric cables and conductors

Universally suitable for branching polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT) with or without concentric conductor. Suitable for branch clamps on copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

Test standards

- DIN EN 50393 (corresponds to VDE 0278)

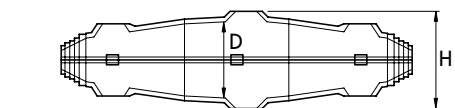
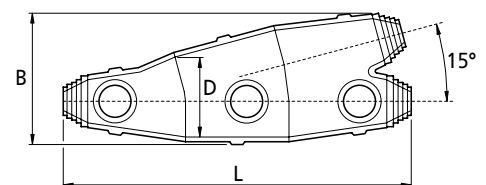
Storage conditions/Shelf life

- Cast resin up to 40 months

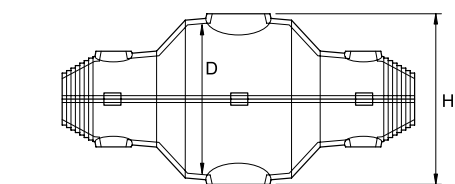
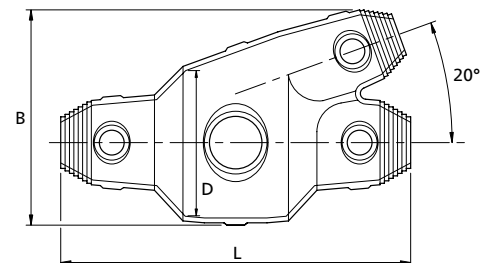
Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, closing stops, fill and air-release funnels, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Screw branch clamp AK (see Connecting technology)
 Branch clamp KP (see Connecting technology)
 Branch clamp HE 1/70/150 (see Connecting technology)
 Split bolt clamp FK (see Connecting technology)
 Cleaner UNIVERSAL CLEANER 121 (see Accessories)

**Dimensions**

Y 0 EG, Y 3.5 EG, Y 6 EG



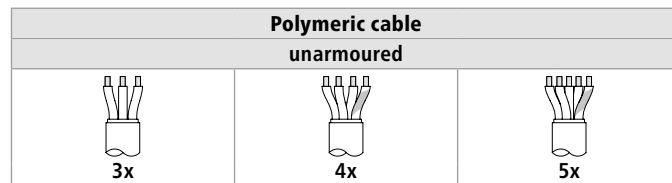
Y 00 EG, Y 1 EG, Y 2 EG, Y 3 EG, Y 4 EG, Y 4.5 EG, Y 5 EG

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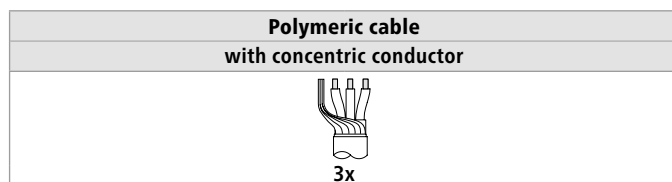


→ Continuation

Y...EG Cast resin branch joint



Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm		max. Nominal cross section per conductor mm ²						Art.-No.	
					Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable		
Y	00 EG	150	75	38	50	19	19	4	2.5	4	2.5	4	2.5	133841
	0 EG	185	80	45	55	17	17	6	6	6	6	6	6	152932
	1 EG	240	110	60	70	22	22	10	10	10	10	10	10	124730
	2 EG	285	120	65	75	34	30	25	25	25	25	25	25	147533
	3 EG	240	145	100	110	42	37	50	25	50	35	25	25	131123
	3.5 EG	300	150	110	120	54	38	70	25	50	35	35	35	131118
	4 EG	285	170	110	120	53	37	95	35	95	50	50	35	124763
	4.5 EG	335	193	120	130	56	42	150	70	150	70	120	70	131119
	5 EG	382	220	140	150	62	52	240	150	240	95	150	95	157645
6 EG	570	275	180	190	90	80	300	240	300	185	150	150	131126	



Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm		max. Nominal cross section per conductor mm ²		Art.-No.	
					Main cable	Branch cable	Main cable	Branch cable		
Y	00 EG	150	75	38	50	19	19			133841
	0 EG	185	80	45	55	17	17	6/6	6/6	152932
	1 EG	240	110	60	70	22	22	10/10	10/10	124730
	2 EG	285	120	65	75	34	30	16/16	10/10	147533
	3 EG	240	145	100	110	42	37	25/25	16/16	131123
	3.5 EG	300	150	110	120	54	38	35/35	25/25	131118
	4 EG	285	170	110	120	53	37	70/70	25/25	124763
	4.5 EG	335	193	120	130	56	42	120/120	95/95	131119
	5 EG	382	220	140	150	62	52	150/150	95/95	157645
6 EG	570	275	180	190	90	80	240/120	185/95	131126	

**Y...GG****Cast resin branch joint**

for polymeric cables and conductors

Universally suitable for branching polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM, TT) with or without concentric conductor. Suitable for branch clamps on copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

Test standards

- DIN EN 50393 (corresponds to VDE 0278)

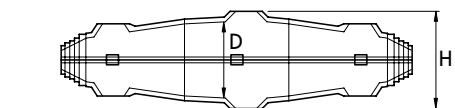
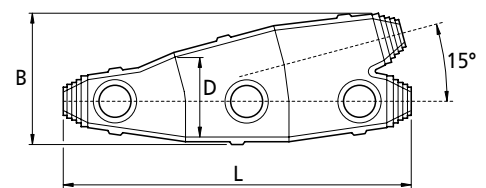
Storage conditions/Shelf life

- Cast resin up to 24 months

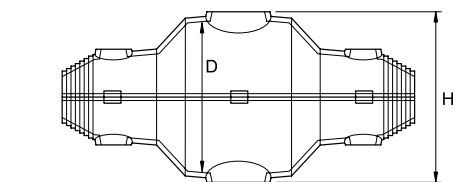
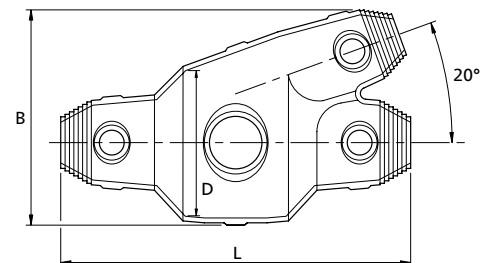
Scope of delivery

Hydrolysis resistance PUR type GG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, closing stops, fill and air-release funnels, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Screw branch clamp AK (see Connecting technology)
Branch clamp KP (see Connecting technology)
Branch clamp HE 1/70/150 (see Connecting technology)
Split bolt clamp FK (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

**Dimensions**

Y 0 GG

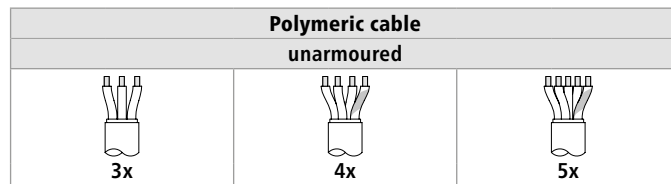


Y 1 GG, Y 2 GG, Y 3 GG, Y 4 GG,

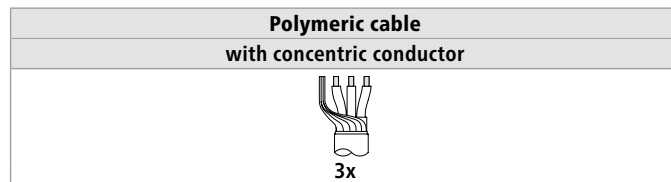
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→ Continuation

Y...GG Cast resin branch joint



Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm		max. Nominal cross section per conductor mm ²						Art.-No.	
					Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable	Main cable	Branch cable		
Y	0 GG	185	80	45	55	17	17	6	6	6	6	6	6	353813
	1 GG	240	110	60	70	22	22	10	10	10	10	10	10	353814
	2 GG	285	120	65	75	34	30	25	25	25	25	25	25	353815
	3 GG	240	145	100	110	42	37	50	25	50	35	25	25	353816
	4 GG	285	170	110	120	53	37	95	35	95	50	50	35	353817



Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm		max. Nominal cross section per conductor mm ²		Art.-No.	
					Main cable	Branch cable	Main cable	Branch cable		
Y	0 GG	185	80	45	55	17	17	6/6	6/6	353813
	1 GG	240	110	60	70	22	22	10/10	10/10	353814
	2 GG	285	120	65	75	34	30	16/16	10/10	353815
	3 GG	240	145	100	110	42	37	25/25	16/16	353816
	4 GG	285	170	110	120	53	37	70/70	25/25	353817



Y...V FKM

Cast resin branch joint

with split bolt branch clamps, for polymeric cables and conductors

Universally suitable for branching polymeric cables or conductors insulated with PVC, PE, XLPE and EPR (e.g. N(A)YY, NYM). With one-core branch clamps, suitable for copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

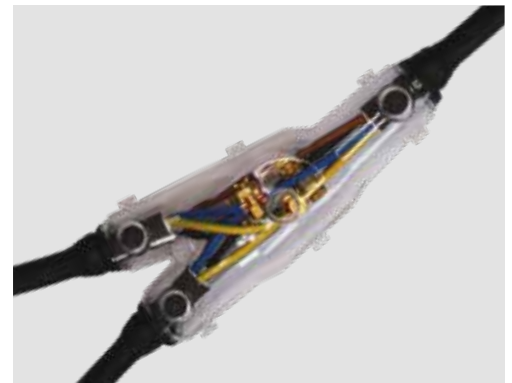
- U_0/U_m (U_m) 0.6/1 (1.2) kV

Test standards

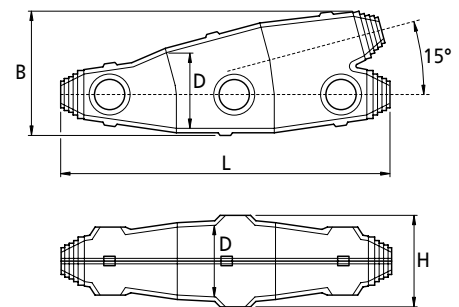
- DIN EN 50393

Storage conditions/Shelf life

- Cast resin up to 40 months



Dimensions



Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, closing stops, fill and air-release funnels, screw branch clamps, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm		Nominal cross section per conductor mm ²				Art.-No.
					Main cable	Branch cable	Polymeric cable unarmoured		Main cable	Branch cable	
							4x	5x			
Y 0 V FKM	185	80	45	55	8 - 17	8 - 17	2.5 - 4	1.5 - 4	2.5 - 4	1.5 - 4	436823
Y 1 V FKM	240	110	60	70	9 - 22	9 - 22	2.5 - 6	1.5 - 6	2.5 - 6	1.5 - 6	436824
Y 2 V FKM	285	120	65	75	19 - 34	16 - 30	4-16	4-16	4-16	4-16	436825



YCP

Cast resin branch joint

for polymeric cables and conductors

Suitable for branching the 1-core cables or conductors, e.g. wires for cathodic corrosion protection from chemical and electrochemical reactions in underground area and under water. Pipes, warehouse containers, electric supply lines and other metal constructions are economically and effectively protected against passive corrosion (polymeric casings, mastic glass fibre casings). Suitable for branch clamps on copper and aluminium conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0.6/1 (1.2) kV

Test standards

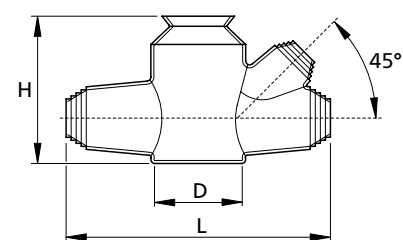
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 40 months



Dimensions



Scope of delivery

Hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, closing stops, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Screw branch clamp AK (see Connecting technology)
Split bolt clamp FK (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Type	L mm	B mm	D mm	H mm	max. Cable-Ø mm		Nominal cross section per conductor mm ²		Art.-No.
					Main cable	Branch cable	Main cable	Branch cable	
YCP	135	48	44	75	23	20	10 - 50	4 - 50	124683



D1 Cast resin branch / straight-through joint

particularly for small cross sections for polymeric cables and conductors, control cables and signal cables

The parallel-branch joint (dual connection joint) is suitable for branching polymeric cables or conductors mainly used for 1-core special cables for airport runways lighting. Suitable for compression connectors on copper conductors.

Characteristics

- Compact dimensions
- Splice area visible before casting
- High-quality transparent shockproof plastic shell
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Ready for immediate operation
- Quick and easy assembly saves time and reduces costs

Application/Suitability

- Indoor
- Outdoor
- Underground
- Water
- Installation ducts

Voltage level

- U_0/U_m 0,6/1 (1,2) kV - 5KV DC

Test standards

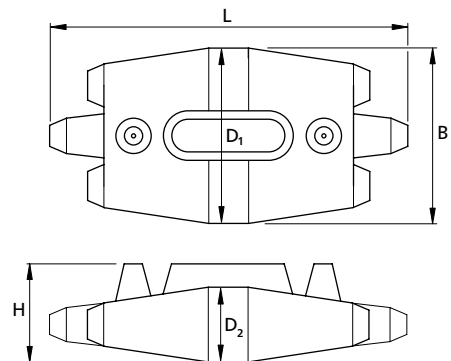
- DIN EN 50393 (corresponds to VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 40 months



Dimensions



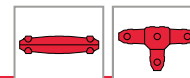
Scope of delivery

Cover, hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, transparent plastic shell, PVC insulation tape, protective gloves, assembly instructions

Optional accessory: Compression connectors (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)

							Polymeric cable unarmoured			
							1x	4x		
Type	L mm	B mm	D1 mm	D2 mm	H mm	max. Cable-Ø mm	Nominal cross section per conductor mm ²		Art.-No.	
D1	185	90	84	30	48	16	6	2.5	124685	

							Control and signal cable					
							0.6 mm	0.8 mm	0.75 mm ²	1.5 mm ²		
Type	L mm	B mm	D1 mm	D2 mm	H mm	max. Cable-Ø mm	Number of wire pairs		Number of conductors		Art.-No.	
D1	185	90	84	30	48	16	6 - 10	6 - 6	6	4	124685	



M1, T1 and Y1

Cast resin straight-through and branch joints

with WAGO COMPACT Splicing Connectors of the series 221, for polymeric cables

Universally suitable for connecting polymeric cables or conductors insulated with PVC, PE and XLPE (e.g. N(A)YY, NYM, TT). Suitable for copper cables.

Characteristics

- High-quality transparent shockproof plastic shell
- With WAGO COMPACT Splicing Connectors of the series 221
- Quick and easy assembly saves time and reduces costs
- Ready for immediate operation
- Durable protection from moisture / waterproof
- Splice area visible before casting
- Compact dimensions of the joint
- Large filler aperture to facilitate casting
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Longitudinally and transversely watertight
- High electrical insulating values
- High mechanical strength
- Not harmful to the environment

Application/Suitability

- Outdoor applications
- Interiors with high humidity exposure
- Public buildings, Underground and outdoor

Voltage level

- U_0/U_m 0,6/1 (1,2) kV

Test standards

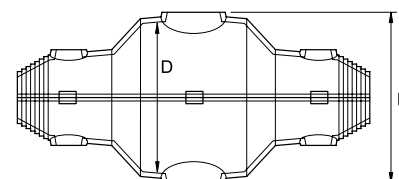
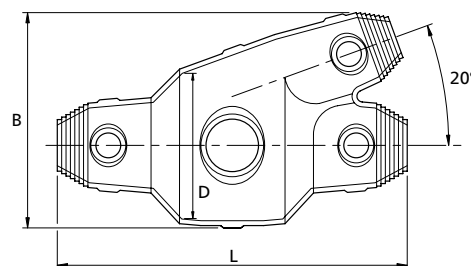
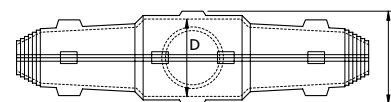
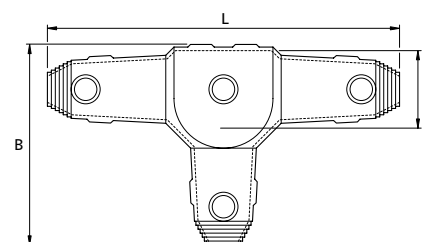
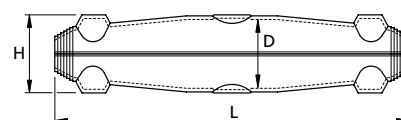
- DIN EN 50393

Storage conditions/Shelf life

- Cast resin up to 40 months



Dimensions M1



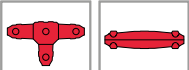
WAGO | inside

Scope of delivery

Cover, hydrolysis resistance PUR type EG cast resin (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, WAGO COMPACT Splicing Connectors of the series 221 (T1 and Y1: Type 221 - 413, M1: Type 221 - 2411), transparent plastic shell, PVC insulation tape, protective gloves, funnel clips, assembly instructions

Optional accessory: Funnel set/Filling in funnel (on request)
Heat shrinkable crimp connector (see Connecting technology)
Cleaner UNIVERSAL CLEANER 121 (see Accessories)





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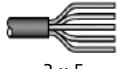
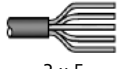
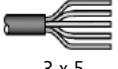
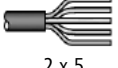
→ Continuation

M1, T1 and Y1 Cast resin straight-through and branch joints

LOW VOLTAGE
Cast resin technology

Type	Shell Type	WAGO COMPACT-Splicing connector  5 x 221-413	Single, fine or multi-stranded conductors mm ²	max. Kabel-Ø mm		max. Cable-Ø mm		EG cast resin ml	Art.-No.
				Main cable	Branch cable	Main cable	Branch cable		
T1 WAGO	T1	 5 x 221-413	0,5 - 4	22	22	9	9	464	425469
Y1 WAGO	Y1	 5 x 221-413	0,5 - 4	22	22	9	9	464	425490
M1 WAGO	M1	 5 x 221-2411	0,5 - 2,5* 0,5 - 4	22	-	9	-	286	425491

* With stranded conductors

Type	L mm	B mm	D mm	H mm	Max. possible Number of conductors	Number of Cable inputs x Cable/conductor  3 x 5	Assignment with WAGO COMPACT Splicing Connectors	
							221-413	221-2411
T1	240	138	50	60	15	 3 x 5	5	-
Y1	240	110	60	70	15	 3 x 5	5	-
M1	240	-	40	45	10	 2 x 5	-	5



Universal Box CG WAGO Connection and branch box

OBO cable junction box with WAGO COMPACT type 221 splicing connectors, the cast resin does not require a hazard label

The Universal Box CG combines the advantages of a junction and branch box with those of resin cable accessories. It is universally suitable for implementing complex electrical connections in the tightest of spaces.

The system ensures permanent protection against moisture and completely eliminates condensation.

Properties

- High-quality cable junction boxes from OBO BETTERMANN available in various housing sizes
- Fitted with WAGO COMPACT 221 series splicing connectors
- Protection class: IP68 with cast resin
- Halogen-free
- UV-resistant junction box
- CMR, isocyanate and silicone-free, no hazard label required
- Environmentally compatible
- High flexibility thanks to removable cast resin
- Translucent, even after hardening
- Durability, even when exposed to permanent moisture

Application/suitability

- Indoor areas (also with high exposure to moisture)
- Outdoor
- Earth

Voltage level

- 230/400 V

Test standards

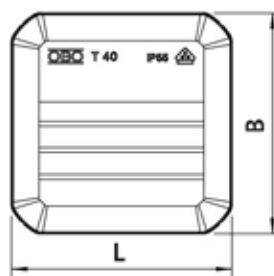
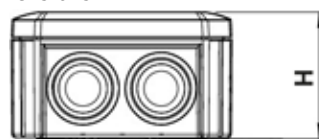
- DIN EN 60529 (VDE 0470)
- DIN EN 50393 (VDE 0278)

Storage time/shelf life

- Cast resin up to 24 months



Dimensions



Scope of delivery

2-component hydrocarbon resin CG, measured out in a practical two-chamber mixing bag so that it is ready to mix, high-quality cable junction box from OBO BETTERMANN, WAGO COMPACT 221 series splicing connectors, funnel for convenient vertical casting, emery cloth and installation instructions

Optional accessories: UNIVERSAL CLEANER 121 (see accessories)

Note: Cast resin CG can be reordered for refilling.

Type	OBO BETTERMANN cable junction box	WAGO COMPACT splicing connectors	Nominal cross-section per core mm ²	Cast resin does not require a hazard label ml	Art.-no.
Universal Box CG	T40	5 x 221-413	0,14f / 0,2 - 4	275	425589
	T60	5 x 221-613	0,5 - 6	420	428123
	T100	5 x 221-615	0,5 - 6	730	428124

Technical data	OBO BETTERMANN cable junction box type		
	T40	T60	T100
Dimension (LxBxH) mm inside	77x77x46	100x100x48	136x102x57
outside	90x90x52	114x114x57	150x116x67
Entry point	7 x M20	7 x M20	10 x M20
Cover catch	Snap closure	Screw cap	Screw cap

WAGO is a registered trademark of WAGO Verwaltungsgesellschaft mbH. Origin of the drawing: OBO BETTERMANN.



Universal Box CG Connection and branch box

with clamps and non-labelled

The connection and branch box combines the advantages of a traditional box with the well-known professional cast resin technology. Complex connections in a very small volume can be done with this universal box. The system guarantees an absolute waterproof protection, excluding all condensation risks.

Characteristics

- OBO BETTERMANN T40 branch box with plug-in seal
- Practical connection and branch box with 7 x M20 membran entries
- Protection class: IP68 with cast resin
- Halogen Free
- UV-resistant branch box
- 5-pole clamps for conductor crosssections of 0.5 - 2.5 mm²
- Free hazardous labelling (isocyanate and silicon free)
- Not harmful to the environment
- High flexibility due to removable cast resin
- Translucent before and after curing
- Cable retaining rings for additional stabilisation of the cable
- Withstands long-term exposure to moisture

Application/Suitability

- Outdoor
- Indoor areas (also with high humidity level)
- Underground

Voltage level

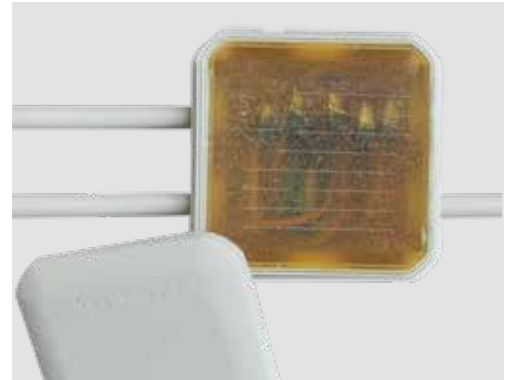
- 230/400 V

Test standards

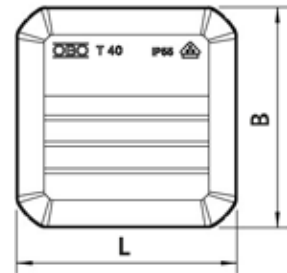
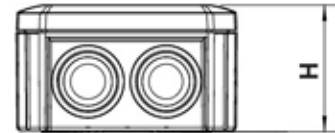
- DIN EN 60529 (VDE 0470)
- DIN EN 50393 (VDE 0278)

Storage conditions/Shelf life

- Cast resin up to 24 months



Dimensions



Scope of delivery

250 ml 2-component hydrocarbon resin CG (containing the correct volume ready for mixing), packed in practical and easy-to-use two-chamber bags, box with membran entries, 5 clamps 5-pole 0.5 - 2.5 mm², 12 cable retaining rings CP-Z1, funnel for easy vertical filling, emery cloth, assembly instructions

Optional accessory: Cleaner UNIVERSAL CLEANER 121 (see Accessories)

Note: Type CG cast resin refills may be ordered separately.

Type	L mm	B mm	H mm	max. Cable-Ø mm	Polymeric cable unarmoured		Art.-No.
					Nominal cross section per conductor mm ²		
Universalbox CG	250 ml	90	90	52	20	0,5 - 2,5	420083



EG

Two-component PUR cast resin

universal

Cast resin EG is suitable for the following types of cables: Low voltage polymeric-insulated and mass-impregnated paper cables up to 1 kV, polymeric-insulated and mass-impregnated paper telecommunication and signal cables and medium voltage cables (as mechanical protection and protection against moisture).

Characteristics

- Two-component PUR cast resin
- In practical and easy-to-use two-chamber bags
- Favourable flow properties
- High hydrolysis resistance
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Halogen-free
- Not harmful to the environment
- Flexibility ensures mechanical stress absorption
- No fracturing under electrical stress
- No fracturing under mechanical tension
- Excellent adhesion to all cable materials
- Low hardening temperature

Test standards

- DIN VDE 0278-631-1

Storage conditions/Shelf life

- In aluminium bag 40 months at ambient temperatures between 15 °C and 35 °C



Scope of delivery

1 PU

Note: Other sizes available on request.

Type	Content ml	Art.-No.
80	80	134999
143	143	124909
286	286	124986
370	370	124962
464	464	124989
730	730	124990
1000	1000	124992
1150	1150	124901
1500	1500	124991
2000	2000	132206

→ Continued on the next page

→ Continuation

EG Two-component PUR cast resin

Technical data	Value
Flash point of cast resin component (open cup)	> 200 °C
Flash point of reactant (open cup)	> 200 °C
Processing time (pot life) of 300 ml mixture at	
5 °C	40 minutes
23 °C	23 minutes
35 °C	15 minutes
max. Reaction temperature	80 °C
Total volume shrinkage during curing	4.0 %
Density	1.10 g/cm ³
Impact strength	> 10 kJ/m ²
Hardness	55 Shore D
Water absorption in warm water (42 d at 50 °C)	350 mg
Electrolytic corrosion	A 1
1 minute test voltage at	
23 °C	> 20 kV
80 °C	> 20 kV
Dielectric dissipation factor at	
23 °C and 1 kHz	0.05
23 °C and 50 Hz	0.08
Dielectric constant at	
23 °C and 1 kHz	5.3
23 °C and 50 Hz	5.1
Tracking resistance	KA 3c
Operating temperature range	-40 °C up to +105 °C



GG

Two-component PUR cast resin

reduced hazard-class

Cast resin GG is a special development to fulfill reduced hazard-classification. It's labelling identification, according to the CLP-Regulation (EC) No. 1272/2008, does not contain the H351 statement. The cast resin GG has similar properties as the known polyurethane cast resins. Cast resin GG is suitable for low voltage polymeric-insulated and mass-impregnated paper cables up to 1 kV.

Characteristics

- Two-component PUR cast resin
- In practical and easy-to-use two-chamber bags
- Favourable flow properties
- High hydrolysis resistance
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Halogen-free
- Not harmful to the environment
- Flexibility ensures mechanical stress absorption
- No fracturing under electrical stress
- No fracturing under mechanical tension
- Excellent adhesion to all cable materials
- Low hardening temperature
- Reduced hazardous labelling identification according to the CLP-Regulation (EC) No. 1272/2008

Test standards

- DIN VDE 0278-631-1
- #### Storage conditions/Shelf life
- In aluminium bag 24 months at ambient temperatures between 15 °C and 35 °C



Scope of delivery

1 PU

Note: Other sizes available on request.

Type	Content ml	Art.-No.
80	80	353869
143	143	353890
286	286	353891
370	370	353892
464	464	353893
730	730	353894
1000	1000	353818
1700	1700	335750

Technical data	Value
Flash point of cast resin component (open cup)	> 200 °C
Flash point of reactant (open cup)	> 200 °C
Processing time (pot life) 300 ml mixture at	
5 °C	68 minutes
23 °C	24 minutes
35 °C	15 minutes
max. Reaction temperature	60 °C
Total volume shrinkage during curing	< 6.0 %
Density	1.32 g/cm ³
Impact strength	> 10 kJ/m ²
Hardness	30 Shore D
Operating temperature range	-40 °C up to +90 °C

**CG****Two-component hydrocarbon resin**

non-labelled, free of silicone and isocyanate

Cast resin CG is an environment-friendly and removable 2-component cold curing casting compound based on hydrocarbon resins which does not require hazardous label acc. to CLP-Regulation (EC) No. 1272/2008. The translucent cast resin allows a visual inspection even after the casting. The connection is accessible at any time by removing the cast resin. Typical application areas: cable branch-off cabinet, connection boxes, telecommunication cable connections, electronic components.

Characteristics

- Two-component hydrocarbon cast resin
- In practical and easy-to-use two-chamber bags
- Exceptional electrical insulation
- Free hazardous labelling identification according to the CLP-Regulation (EC) No. 1272/2008
- Free of isocyanate and silicon
- Removable
- Translucent before and after curing
- Favourable flow properties
- Low volume shrinkage
- Cold curing (no heat during reaction)
- Halogen free
- No fracturing under electrical stress
- Excellent adhesion to all cable materials

Note

- Due to its soft elastic mechanical properties, which are favourable for removal, it is advised to implement a cable relief, if stresses on the cable are likely to occur.

Test standards

- DIN EN 60455-3-8
- DIN EN 50655-1

Storage conditions/Shelf life

- In aluminium bag 24 months at ambient temperatures between 15 °C and 30 °C

**Scope of delivery**

1 PU

Note: Other sizes available on request.

Type	Content ml	Art.-No.
CG	143	362398
	250	362399
	275	434565
	420	434566
	730	362410
	1000	363564
	2000	362411

Technical data*	Value	Test standard
Processing time (pot life) 300 ml mixture at 5 °C	24 minutes	DIN EN 60455-2
23 °C	21 minutes	
40 °C	16 minutes	
Hardness (PEN/Hardness)	57 1/10 mm	DIN ISO 2137
Resin - Viscosity at 23°C	2010 mPa x s	EN ISO 2555
Hardener - Viscosity at 23°C	7500 mPa x s	EN ISO 2555
Mix viscosity 5 minutes after mixing at 23°C	4200 mPa x s	EN ISO 2555
Density cured casting compound	0,92 g/cm ³	EN ISO 1183-1
Resistance to electrical breakdown	> 25 kV/mm	DIN EN 60243-1
Volume resistance at 23°C	> 10 ¹⁴ Ωcm	DIN IEC 60093
Storage temperature	0 - 40 °C	DIN EN 60455-2
Operating temperature range	< 80 °C	DIN EN 60455-2

*The given values are typical values and not a specification



FG

Two-component PUR cast resin

flexible

Cast resin FG is suitable for repairing damaged cable-sheaths and for connecting flexible cables. It provides an excellent resistance to abrasion.

Characteristics

- Two-component PUR cast resin
- In practical and easy-to-use two-chamber bags
- Favourable flow properties
- High hydrolysis resistance
- Halogen-free
- Not harmful to the environment
- Resin remains highly flexible after hardening
- Flexibility ensures mechanical stress absorption
- No fracturing under electrical stress
- No fracturing under mechanical tension
- Excellent adhesion to all cable materials
- Low hardening temperature

Test standards

- DIN VDE 0278-631-1

Storage conditions/Shelf life

- In aluminium bag 24 months at ambient temperatures between 15 °C and 35 °C



Scope of delivery

1 PU

Note: Other sizes available on request.

Type	Content ml	Art.-No.
FG	143	135534
	286	125153
	464	125154
	1000	125155

Technische Daten	Wert
Gießharzkomponenten: Flammpunkt im offenen Tiegel	> 200 °C
Reaktionsmittel: Flammpunkt im offenen Tiegel	> 200 °C
Verarbeitungszeit (Topfzeit) 300 ml Ansatz	
5 °C	21 Minuten
23 °C	17 Minuten
35 °C	12 Minuten
Max. Reaktionstemperatur	60 °C
Gesamtvolumenschwund bei der Härtung	6,0 %
Dichte	1,10 g/cm ³
Härte	50 Shore A
Reißdehnung	250 %
Wasseraufnahme in warmen Wasser (42 d bei 50 °C)	600 mg
1 Minute Prüfspannung bei	
23 °C	> 20 kV
80 °C	> 10 kV
Dielektrischer Verlustfaktor bei	
23 °C und 50 Hz	0,20
50 °C und 50 Hz	1,40
Dielektrizitätskonstante bei	
23 °C und 50 Hz	7,4
50 °C und 50 Hz	8,9
Kriechstromfestigkeit	KA 3c



UG

Two-component PUR cast resin

flame retardant

Cast resin UG meets the higher fire protection requirements and was specially developed for use in mining. It meets the requirements for cast resin moulding according to DIN VDE 0291 Section 2 on filling the cable sets or parts thereof for the following types of cables: Power cables with a nominal voltage up to 1 kV - GNH, power cables with a nominal voltage up to 10 kV - GMH and telecommunication and signal cables - GFH.

Characteristics

- Two-component PUR cast resin
- In practical and easy-to-use two-chamber bags
- Favourable flow properties
- Fast-hardening
- High hydrolysis resistance
- Resistant to chemical agents
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Halogen-free
- Flame retardant
- Not harmful to the environment
- Low smoke emission in case of fire
- No fracturing under electrical stress
- No fracturing under mechanical tension
- Excellent adhesion to all cable materials

Test standards

- Flame retardation in accordance with DIN VDE 0472 Section 804, test typ C
- Properties of insulation against flames in accordance with DIN VDE 0472 Section 814
- Corrosiveness of combustion gases in accordance with DIN VDE 0472 Section 813
- DIN VDE 0278-631-1

Storage conditions/Shelf life

- In aluminium bag 24 months at ambient temperatures between 15 °C and 35 °C



Scope of delivery

1 PU

Note: Other sizes available on request.

Type	Content ml	Art.-No.
80	80	125286
143	143	125287
286	286	125288
UG 464	464	125289
730	730	125290
1000	1000	125291
2000	2000	135533

→ Continued on the next page

→ Continuation

UG Two-component PUR cast resin

Technical data	Value
Flash point of cast resin component (open cup)	> 200 °C
Flash point of reactant (open cup)	> 200 °C
Processing time (pot life) 300 ml mixture at	
5 °C	23 minutes
23 °C	16 minutes
35 °C	12 minutes
max. Reaction temperature	78 °C
Total volume shrinkage during curing	2.5 %
Density	1.40 g/cm ³
Impact strength	> 20 kJ/m ²
Hardness	80 Shore D
Water absorption in warm water (42 d at 50 °C)	250 mg
Water absorption in cold water (24 h at 23 °C)	18 mg
Electrolytic corrosion	A 1.2
1 minute test voltage at	
23 °C	38 kV
80 °C	35 kV
Dielectric dissipation factor at	
23 °C and 1kHz	0.02
23 °C and 50 Hz	0.03
50 °C and 50 Hz	0.06
80 °C and 50 Hz	0.15
Dielectric constant at	
23 °C and 1 kHz	4.1
23 °C and 50 Hz	4.3
50 °C and 50 Hz	5.5
80 °C and 50 Hz	7.2
Tracking resistance	KA 3c

**UWR****Two-component PUR cast resin**

low reactivity to water

Cast resin UWR has been specially developed for filling the cable joints exposed to high levels of humidity. It is characterised by its resistance to water in the liquid and in the solid state and is suitable for the encapsulation which are exposed to high levels of humidity for the following cable types: low voltage polymeric-insulated and mass-impregnated paper cables up to 1 kV

Characteristics

- Two-component PUR cast resin
- In practical and easy-to-use two-chamber bags
- Favourable flow properties
- High hydrolysis resistance
- Halogen-free
- Not harmful to the environment
- No fracturing under electrical stress
- No fracturing under mechanical tension
- Excellent adhesion to all cable materials

Test standards

- DIN VDE 0278-631-1

Storage conditions/Shelf life

- In aluminium bag 24 months at ambient temperatures between 15 °C and 35 °C

**Scope of delivery**

1 PU

Note: Other sizes available on request.

Type	Content ml	Art.-No.
UWR	143	139163
	464	148876
	1175	137406
	1350	137358
	2000	137877

Technical data	Value
Flash point of cast resin component (open cup)	140 °C
Processing time (pot life) 300 ml mixture at	
5 °C	30 minutes
23 °C	15 minutes
35 °C	8 minutes
max. Reaction temperature	88 °C
Total volume shrinkage during curing	4.2 %
Density	1,20 g/cm ³
Impact strength	> 28 kJ/m ²
Hardness	60 Shore D
Elongation at break	40 %
Effect of long-term warm storage on impact strength (38 d)	15 kJ/m ²
Tear resistance	16 N/mm ²
Tensile strength	15 N/mm ²
Residual deformation (after 24 h)	0,4 %
Pressure required for 30 % deformation	27 N/mm ²
Curing under water	< 10 ml glass
Hydrolysis resistance after water immersion (28 d at 70 °C)	passed
Physical structure	passed (homogeneous and bubble-free)



WG

Two-component PUR cast resin

removable

The unfilled thin two-component polyurethane cast resin (PUR) WG was particularly developed for cable joints. The hardened moulding material is permanently elastic and can be removed at any time with simple tools.

Characteristics

- Two-component PUR cast resin
- In practical and easy-to-use two-chamber bags
- Favourable flow properties
- High hydrolysis resistance
- Halogen-free
- Not harmful to the environment
- No fracturing under electrical stress
- Excellent adhesion to all cable materials
- Low hardening temperature
- Permanently flexible after hardening

Note

- Connection requires mechanical tension relief due to the flexibility of the resin e.g. by means of a mechanically stable joint housing.

Test standards

- DIN VDE 0278-631-1

Storage conditions/Shelf life

- In aluminium bag 18 months at ambient temperatures between 15 °C and 35 °C



Scope of delivery

1 PU

Note: Other sizes available on request.

Type	Content ml	Art.-No.
WG	286	125202
	464	125203
	730	125204
	1000	125205
	1150	125206
	1500	125207
	2000	125208
	2200	125209

Technical data	Value
Flash point of cast resin component (open cup)	200 °C
Flash point of reactant (open cup)	200 °C
Processing time (pot life) 300 ml mixture at	
5 °C	33 minutes
23 °C	24 minutes
35 °C	21 minutes
max. Reaction temperature	60 °C
Total volume shrinkage during curing	1,2 %
Density	1,10 g/cm ³
Hardness	44 Shore A
Elongation at break	60 %
Tensile strength	0,6 N/mm ²
Tracking resistance	KA 3c
Water absorption in warm water (42 d at 50 °C)	450 mg
Electrolytic corrosion	A 1,2
1 minute test voltage at	
23 °C	> 20 kV
80 °C	> 10 kV
Dielectric dissipation factor at 23 °C and 50 Hz	0,04
Dielectric constant at 23 °C and 50 Hz	5,7

**AMX-C****Automatic cast resin mixing system**

with static mixer

Cartridge filled with two-component PUR cast resin for easy casting of connection and branch boxes and cast resin joints in a single operation without time-consuming preparation of cast resin components. Suitable for low voltage polymeric-insulated cables up to 1 kV; ideal for boxes with smaller volume.

Characteristics

- Mixing and casting in one step
- Less workload as no preparatory work such as kneading is necessary
- Safe and automatic mixing of cast resin components during application
- Favourable flow properties for clean application and precise dosing
- Individually dosable
- Reclosable cartridge for multiple use
- Resistant to alkaline earth elements
- Stabilized against UV rays
- Halogen-free
- Not harmful to the environment
- No fracturing under electrical stress
- Excellent adhesion to all cable materials
- No fracturing under mechanical tension
- Low hardening temperature

Application/Suitability

- Indoor
- Outdoor
- Underground
- Connection and branch boxes
- Cast resin joints

Voltage level

- $U_0/U_m (U_m)$ 0.6/1 (1.2) kV

Test standard

- DIN VDE 0278-631-1

Storage conditions/Shelf life

- 24 months at ambient temperatures between 15 °C and 35 °C

Note on multiple use:
Clean cartridge opening and (cartridge) cap after use.
Replace static mixer.

**Scope of delivery**

Cast resin cartridge, static mixer

Note: Static mixer can be ordered separately or as part of the AMX cleaning accessory kit (static mixer, cleaning tissue and gloves).

Optional accessory: Caulking gun AMX-HPT 310 (see Accessories)
Caulking gun AMX-HPT 1200 (see Accessories)
Accu caulking gun AMX-APT 310 (see Accessories)

Typ	Content ml	Art.-No.
AMX-C265-EGK	265	292688
AMX-1200-EGK	1200	249007

Technical data	Value
Density	1.11 g/cm ³
Hardness	50 Shore D
Tensile strength	13 N/mm ²
Elongation at break	60 %
Viscosity (20 °C)	1700 mPa x s
Operating temperature range	-40 °C up to +105 °C