Geljoints Break

Fastest way to make an underground connection!

No expiration date

5 years warranty

Re-enterable connection









Gel joints Break series is suitable to guarantee insulation of low voltage main and shunted, single-pole and multi-pole connections ranging from $0.6/1~\rm kV$.

The list of products is made up of a series for main connections and a series for shunted connections. The first series allows single-pole and multi-pole connections with max. section respectively of 1x185 mm² and 4x25 mm²; the second series allows single-pole and multi-pole shunted connections with max. section respectively of 1x120 mm² e 4x10 mm².

The insulation phase in each joint is made with a separator included in the kit or with the innovative modular insulated terminals, up to five phases with max. section of 35 mm².

Technical specifications

- Protection degree IP68
- Operating temperature from -20 °C to +90 °C

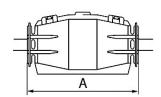
Regulations compliance

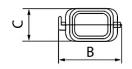
- EN 50393 (0,6/1 kV)
- EN 60529
- RoHS Directive 2011/65/EC
- 20-37/2-1, 20-37/7
- EN 60695-2-11





Package (pcs)





Installation



1. Strip and crimp wires.



2. Dip connection in the gel and block wires at the ends with the included tiewraps.



3. Verify clip closing and gel overflowing in wire input/output points in order to guarantee a perfect watertight seal.

Components and characteristics

- Two polypropylene hinged shells with patented water tight system, made up of a longitudinal ribbing (1) functioning as the gel containing bulkhead. At both ends there are pre-fractured walls (2) that allow gel overflowing, ensuring a good water tightness.
- Wire slipping is avoided in longitudinal direction thanks to ribbing (3) at the ends of the shells and in transversal direction thanks to wire fixing with tie-wraps included in the package.
- Patented separator made up of two notched plates that allow a reciprocal jointing and two protrusions that block the plates.
- There are two holes at the ends of each model in order to insert and fix tie-wraps. Joint opening can occur only using a tool according to norm CEI 64-8.

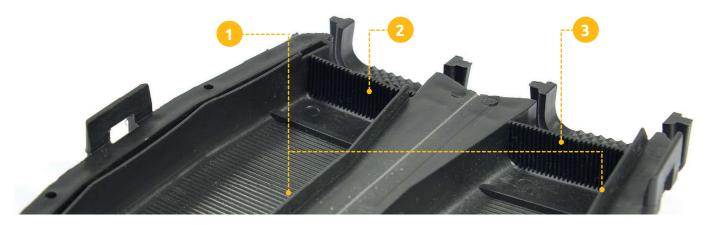
Advantages

- Re-enterable connection
- High mechanical strength with wide range of operating temperature
- Fast laying
- Cross-linked gel in the two shells (avoiding additional casting)
- · Versatility of application, even in submerged conditions
- High watertight properties
- · High dielectric strength
- Non sliding wires
- High strength against chemical agents or UV rays
- No expiration date

Kit content*

- Shell
- Tie-wraps
- Separator





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Order code	Туре	Connection type		ain m²)		nted m²)												
			Min.	Max.	Min.	Max.												
MBG0025A24	Break 25	Main wiring	1,5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Branching wiring	1,5	25	1,5	10	-	-	-	-	-	-	-	-	-	-	-	-
14000000101	DI- 20	Main wiring	1,5	50	-	-	1,5	10	-	-	1,5	4	-	-	1,5	2,5	-	-
MBG0030A24	Break 30	Branching wiring	1,5	50	1,5	35	-	-	-	-	-		-	-	-	-	-	-
1400000010101	DI- F0	Main wiring	10	120	-	-	6	16	-	-	1,5	10	-	-	1,5	10	-	-
MBG0050A24	Break 50	Branching wiring	10	70	1,5	35	1,5	10	1,5	6	1,5	10	1,5	4	1,5	6	1,5	4
MDC0100A34	Break 100	Main wiring	35	185	-	-	16	50	-	-	4	25	-	-	6	25	-	-
MBG0100A24		Branching wiring	25	150	10	120	10	35	6	25	4	16	2,5	4	6	16	2,5	10
MBG0050Y24	Break 50Y	Main wiring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Branching wiring	6	70	2,5	50	1,5	25	1,5	16	2,5	16	1,5	10	2,5	16	1,5	10

The range of product is made up of three single-pole models MC 06, MC 16, MC 35 that allow insertion of wires with max sections respectively of 6 mm², 16 mm², 35 mm².

Models with the same section can be assembled in different configurations from two up to five poles. In three- and five-pole

combination the result is a pyramidal structure that optimises space utilization, especially in applications of resin and gel joints break (see on page 87). It is also possible to create models with different sections.

Materials

- Self-extinguishing transparent polycarbonate insulating case
- Brass CW 614 N conductive case
- Zinc plated steel dowels

Technical specifications

- Operating temperature from -20 °C to +90 °C
- Rated insulation voltage: 500 V
- Rated current: 24 A (MC 06), 41 A (MC 16), 76 A (MC 35)
- Tightening torque dowels: $0.6~\mathrm{Nm}$ (MC 06), $1.8~\mathrm{Nm}$ (MC 16), $10~\mathrm{Nm}$ (MC 35)
- Inflammability grade according to UL 94 V-2
- Flame and ignition resistance according to IEC 695-2-1
- Compliance with glow wire test 850 °C (EN 60695-2-11)

AdvantagesModular ca

- Modular capacity from two up to five poles
- Fast and easy wiring
- Double insulation degree per joints connections
- · Fast maintenance
- Re-enterable and reusable connection (needed mostly in joints)
- High protection degree
- · Application flexibility
- Reduced space utilization with three- and five-pole pyramid structure

Certification and regulations

- IEC/EN 60695-2-11
- EN 60998-1:2004
- EN 60998-2-1:2004
- RoHS 2011/65/CE









MC 06	MC 16	MC 35

			MAH0006A24	MAH0016A24	MAH0035A24	
Technical data						
In-line connection	max. wire section (mm²)		6	16	35	
Shunted connection	Feed through wire	min. section (mm²)	1,5	2,5	6	
		max. section (mm²)	6	10	25	
	Shunted wire	min. section (mm²)	1,5	2,5	6	
		max. section (mm²)	1,5	4	10	
Size (mm)	Α		13,2	13,6	19,2	
	В		3,6	5,8	9,3	
	С		13,8	14,2	19,8	
	D		28	31	40	
Weight (g)			7	10	34	
Package (pcs)			10	10	5	

Maximum number of terminals recommended to use inside of gel joints break.

MC 06 MC 16 MC 35 Break 25 1 1 Break 30 3 3 2 Break 50 5 5 2 Break 50Y 5 5 3 Break 100 5 5 5

Dimensions

