


**Electrical performance:**

CEI EN 50393 • CEI 20-33  
(with testing under water head and water  
between the cable cores)

Class 2 in accordance  
with CEI 64-8.

Gel:  US

Degree of protection: IP68

Operating  
temperature 

Installation temperature:   
-15°C / +45°C

# Magic Joint

Straight or branch joint with Magic Gel  
filling gel for extruded insulation cables up to 1 kV

Joints for extruded cables F(R)G7OR 0.6/1 kV. Easy installation, composed of two anti-fracture plastic shells, to be filled with non-toxic quick cross linking bicomponent insulation with no shelf life, Magic Gel type. Suitable for installation in traps, channels or directly underground or under water. Non-toxic, safe, light and re-enterable. Thanks to the softness of the insulation, they are able to absorb external shock without cracking or fracturing. The extreme stickiness of the insulation, together with its softness allow it to transmit water pressure for installation even at high depths. Thanks to the materials used, joints are completely non-toxic, safe, re-enterable even after long periods of operation.

- Quick cross linking gel, (only 10 minutes at 23°C)
- Extremely adherent and tight sealing
- Non-toxic and safe
- No shelf life





Installation sequence

Prepare the joint.



Slip off the separator.



Mix for a minute.



Pour within a minute.



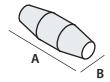
After 10 minutes, Magic joint is ready.





## Magic Joint

Straight joint for 0.6/1 kV extruded cables



Product	Cable formation and conductor cross sections (n° x mm <sup>2</sup> )				Dimensions A x B (mm)
	1x	2x	3x	4x	
Magic Joint 4	1,5 - 25	1,5 - 4	1,5 - 4	1,5 - 4	160 x 45
Magic Joint 10	2,5 - 50	1,5 - 10	1,5 - 10	1,5 - 10 *	180 x 50
Magic Joint 25	16 - 150	4 - 25	4 - 25	2,5 - 25	215 x 55
Magic Joint 35	16 - 185	16 - 35	16 - 35	16 - 35	232 x 70
Magic Joint 50	50 - 300	16 - 50	16 - 50	16 - 50	266 x 72
Magic Joint 95	120 - 400	25 - 95	25 - 95	25 - 95	330 x 75
Magic Joint 120	240 - 500	70 - 120	70 - 120	50 - 120	365 x 95
Magic Joint 240	400 - 1000	120 - 300	120 - 240	120 - 240	510 x 120
Magic Joint 300	630 - 2000	240 - 400	240 - 300	240 - 300	760 x 180

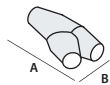
For ALUMINIUM cables	1x	2x	3x	4x	(mm)
Magic Joint 50	16 - 150	16 - 25	16 - 25	16 - 25	266 x 72
Magic Joint 120	185 - 400	25 - 95	25 - 95	25 - 95	365 x 95
Magic Joint 240	400 - 630	95 - 185	95 - 185	95 - 185	510 x 120
Magic Joint 300	630 - 2000	185 - 300	185 - 300	185 - 300	760 x 180

\* Magic Joint 10 suggested for cable diameters smaller than 16 mm.



## Magic Joint Y

Branch joint for 0.6/1 kV extruded cables



Product	Cable formation and conductor cross sections (n° x mm <sup>2</sup> )								Dimensions A x B (mm)
	1x		2x		3x		4x		
	T	B	T	B	T	B	T	B	
Magic Joint Y 6	4 - 50	4 - 50	4 - 10	4 - 10	2,5 - 6	2,5 - 6	2,5 - 6	2,5 - 6	180 x 90
Magic Joint Y25	50 - 150	50 - 150	10 - 25	10 - 25	6 - 25	6 - 16	6 - 25	6 - 10	220 x 105
Magic Joint Y95	120 - 400	95 - 240	25 - 95	16 - 50	25 - 95	16 - 50	25 - 95	10 - 50	315 x 115
Magic Joint Y240*	240 - 630	240 - 630	95 - 240	50 - 240	95 - 240	50 - 240	95 - 240	50 - 240	600 x 285

T : Through - B : Branch  
\* also for aluminium cables.

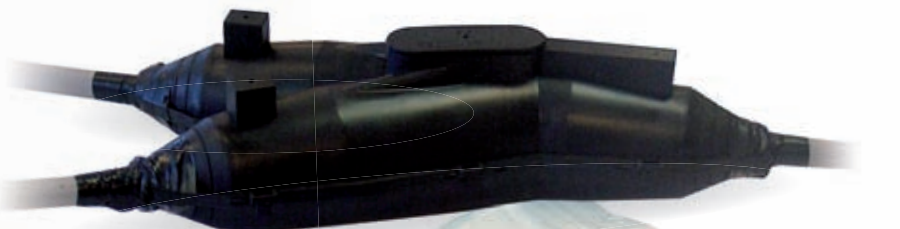


# Magic Joint Fire

Straight or branch joint with quick cross linking  
bi-component cast gel for 0.6/1 kV flame retardant cables

Magic line joints are now also available in the flame retardant version, MAGIC JOINT-FIRE, particularly suitable for installations in places most at risk of fire: available in straight and branch types, they maintain the electrical and sealing characteristics of the traditional Magic line described above, but add a self-extinguishing property, together with their low smoke and toxic gas development and absence of halogen, as required by main international legislation.

- Flamere tardant
- Quick cross linking gel
- Extremely adherent and tight sealing
- For 0.6/1 kV extruded cables
- Non-toxic and safe
- No shelf life



## Installation sequence



### Electrical performance:

CEI EN 50393 • CEI 20-33  
(with testing under water head and water between the cable cores)

Class 2 in accordance  
with CEI 64-8.

### No flame propagation:


CEI 20-35 • IEC 60332-1 HD405-1  
(as applicable)


Low smoke and toxic and  
corrosive gas emissions

Gel:  US

Casing mix: UL 94-V2

Degree of protection: IP68

 Operating  
temperature

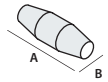
 Installation temperature:  
-10°C / +45°C





## Magic Joint Fire

Straight joint for 0.6/1 kV extruded cables



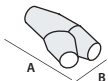
Product	Cable formation and conductor cross sections (n° x mm <sup>2</sup> )				Dimensions A x B (mm)
	1x	2x	3x	4x	
Magic Joint 4-Fire	1,5 - 25	1,5 - 4	1,5 - 4	1,5 - 4	160 x 45
Magic Joint 10-Fire	2,5 - 50	1,5 - 10	1,5 - 10	1,5 - 10 *	180 x 50
Magic Joint 25-Fire	16 - 150	4 - 25	4 - 25	2,5 - 25	215 x 55
Magic Joint 35-Fire	16 - 185	16 - 35	16 - 35	16 - 35	232 x 70
Magic Joint 50-Fire	50 - 300	16 - 50	16 - 50	16 - 50	266 x 72
Magic Joint 95-Fire	120 - 400	25 - 95	25 - 95	25 - 95	330 x 75
Magic Joint 120-Fire	240 - 500	70 - 120	70 - 120	50 - 120	365 x 95
Magic Joint 240-Fire	400 - 1000	120 - 300	120 - 240	120 - 240	510 x 120
Magic Joint 300-Fire	630 - 2000	240 - 400	240 - 300	240 - 300	760 x 180

Product	Cable formation and conductor cross sections (n° x mm <sup>2</sup> )				Dimensions A x B (mm)
	1x	2x	3x	4x	
Magic Joint 50-Fire	16 - 150	16 - 25	16 - 25	16 - 25	266 x 72
Magic Joint 120-Fire	185 - 400	25 - 95	25 - 95	25 - 95	365 x 95
Magic Joint 240-Fire	400 - 630	95 - 185	95 - 185	95 - 185	510 x 120
Magic Joint 300-Fire	630 - 2000	185 - 300	185 - 300	185 - 300	760 x 180



## Magic Joint Y Fire

Branch joint for 0.6/1 kV extruded cables



Product	Cable formation and conductor cross sections (n° x mm <sup>2</sup> )								Dimensions A x B (mm)
	1x		2x		3x		4x		
	T	B	T	B	T	B	T	B	
Magic Joint Y 6-Fire	4 - 50	4 - 50	4 - 10	4 - 10	2,5 - 6	2,5 - 6	2,5 - 6	2,5 - 6	180 x 90
Magic Joint Y25-Fire	50 - 150	50 - 150	10 - 25	10 - 25	6 - 25	6 - 16	6 - 25	6 - 10	220 x 105
Magic Joint Y95-Fire	120 - 400	95 - 240	25 - 95	16 - 50	25 - 95	16 - 50	25 - 95	10 - 50	315 x 115

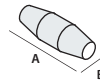
T : Through - B : Branch



## Magic Joint S Fire

Straight joint for signalling and control

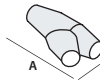
Product	Conductor cross sections (mm <sup>2</sup> )	Cable formation (n° conductors)											Dimensions A x B (mm)				
		5x	7x	10x	12x	16x	19x	24x	40x	75x	100x	250x		500x			
Magic Joint S11 Fire	1,5	•	•	•	•	•											180 x 50
	2,5	•	•	•													
Magic Joint S12 Fire	1,5			•	•	•	•	•									215 x 55
	2,5			•	•	•	•										
Magic Joint S13 Fire	1,5					•	•	•	•								266 x 72
	2,5					•	•	•									
Magic Joint S14 Fire	1,5							•	•	•							330 x 75
	2,5							•	•								
Magic Joint S15 Fire	1,5								•	•	•						365 x 95
	2,5								•	•							
Magic Joint S16 Fire	1,5									•	•	•					510 x 120
	2,5									•	•						
Magic Joint S17 Fire	1,5										•	•	•				760 x 180
	2,5										•	•					



## Magic Joint SY Fire

Branch joint for signalling and control

Product	Conductor cross sections (mm <sup>2</sup> )	Cable formation (n° conductors)									Dimensions A x B (mm)
		5x	7x	10x	12x	16x	19x	24x	40x	75x	
Magic Joint SY1 Fire	1,5	•	•	•	•	•	•				180 x 90
	2,5	•	•	•	•						
Magic Joint SY2 Fire	1,5					•	•	•			220 x 105
	2,5			•	•	•	•				
Magic Joint SY3 Fire	1,5						•	•	•	•	315 x 115
	2,5						•	•	•		



## Magic Joint T Fire

Straight joint for telephone cable

UNSCREENED	SCREENED	N° pairs per conductor cross sections (n° x mm <sup>2</sup> )	Dimensions A x B (mm)
Product	Product		
Magic Joint T16-Fire	Magic Joint TS16-Fire	1 - 16 x 0,5 - 0,6	180 x 50
Magic Joint T25-Fire	Magic Joint TS25-Fire	16 - 25 x 0,5 - 0,6	215 x 55
Magic Joint T35-Fire	Magic Joint TS35-Fire	25 - 35 x 0,5 - 0,6	266 x 72
Magic Joint T40-Fire	Magic Joint TS40-Fire	35 - 40 x 0,5 - 0,6	330 x 75
Magic Joint T64-Fire	Magic Joint TS64-Fire	40 - 64 x 0,5 - 0,6	365 x 95
Magic Joint T500-Fire	Magic Joint TS500-Fire	60 - 500 x 0,5 - 0,6	510 x 120
Magic Joint T1000-Fire	Magic Joint TS1000-Fire	450 - 1000 x 0,5 - 0,6	760 x 180

