



Cast Resin Joint

Low voltage cable joint, cast resin type

Universally suitable to connect or branch off cables insulated with PVC, PE, XLPE and EPR with or without concentric conductor. For power, control and signal cables. Suitable for conpression or screw connectors on copper and aluminum conductors.

Characteristics

- Quick & Simple assembly
- Compact dimensions
- Ready for immediate operation
- · Splice site visible before casting
- High-quality transparent shockproof plastic moulds
- · Resistant to chemical agents
- Resistant to alkaline earth elements
- · Stabilized against UV rays
- · High electrical insulating values
- High mechanical strength
- · Use of fire is dispensed
- Halogen free
- · Heavy metal free

Application

- •Indoor •Outdoor •Underground
- •Water •Installation duct





Technical data

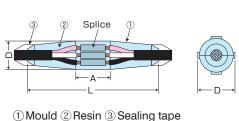
Voltage level	$U_0/U(U_m) 0.6/1(1.2) \text{ kV}$
AC withstand	1 min at 4000 V
Waterproof class	IPX8

Test Standards

DIN EN 50393 (Corresponds to VDE 0278)

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Cast resin joint M. -Straight through-

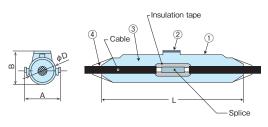


^{*} Splices NOT included.

		Dimens	ions (mm	Cable-φ	Weight		
Type	L)	Α	(mm)	(kg)	
	_	Outside	Inside		, ,		
MO	185	40	33	54	6 ~ 15	0.5	
M1	240	46	40	67	9~22	0.8	
M2	267	52 45		71	17~30	1.1	
M2½	310	65	58	80	21~37	1.7	
МЗ	354	77	70	91	25~42	2.4	
M4	432	97	90	108	29 ~ 52	4.0	
M5	550	117	110	260	40~62	6.6	
M6	660	155	147	230	50~80	13.7	

^{*} For different diameter, select to larger cable

Cast Resin Joint M1. -Straight-through- without funnel

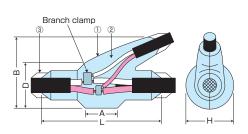


¹ Mould 2 Cap 3 Resin 4 Sealing tape

	Coble 4					
Type		φ	Α	В	Cable− <i>φ</i> (mm)	
Outside Inside		A	Ь	(11111)		
M11	190	39 36		54	50	14~22
M12	260	51 47		66	63	14~30
M13S	310	59 55		74	75	20~37

* For different diameter, select to larger cable

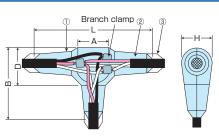
Cast resin joint Y. -Y branch-



- 1 Mould 2 Resin 3 Sealing tape
- * Branch clamps NOT included.

	Dimensions (mm)							Cabl	Moight	
Type		D		Н		_	В	(mm)		Weight (kg)
	L	Outside	Inside	Outside	Inside	Α	В	Main	Branch	(KS)
YO	185	53	45	43	40	55	70	9~17	9~17	0.8
Y1	240	75	68	58	53	70	106	9~22	9~22	1.5
Y2	285	75	68	70	66	70	110	23~34	19~30	1.9
Y3½	300	105	100	105	100	100	148	30~54	20~38	4.4
Y4	285	108	100	108	100	70	165	29~53	21~37	3.1
Y4½	335	124	116	124	116	84	193	32~56	25~42	4.6
Y5	382	142	134	142	134	101	220	35~62	29~52	6.6

Cast resin joint T. -T branch-



- 1 Mould 2 Resin 3 Sealing tape
- * Branch clamps NOT included.

		С)imens	Cabl	le-φ	\A/ - !l- +				
Type	-	D		L D H A B		Н		(mm)		Weight (kg)
	L	Outside	Inside	Outside	Inside	Α	В	Main	Branch	(1/8)
Tl	240	56	50	56	50	70	138	9~22	9~22	1.1
T2	267	64	58	64	58	75	154	17~30	17~30	1.5
T2½	310	83	75	83	75	85	183	21~37	21~37	2.4

- * Splices, branch clamps nor insulating tape NOT included.
- * Triplex cables are also available. Use 1 single core kit for each core.

^{*} Splices NOT included.

Installation procedure -Cast resin joint Y-

1



- ① Cut off each ends of the mould at the marking in order to fit them with diameter of cables with a metal cutting saw.
- 2 Polish the cut edge lightly.
- ③ Strip the cable sheath L mm from each ends of the mould.

L
30 mm
40 mm
50 mm

4

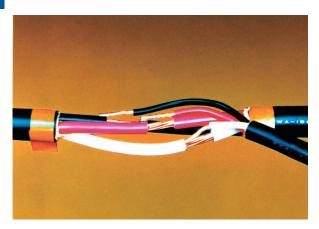


- Roughen the surface of the cable sheath 50 mm from the cut edge with sandpaper in a perpendicular direction
- ② Straighten each core so that the splices or branch clamps are 4 to 5 mm apart from each other.

Note Splices and clamps must be apart from each other and inside of the mould. If it is difficult, insulate each other with insulation tape or insulation putty.

Note For polyethylene sheath cables, wrap self-bonding adhesive tape around the sheath edge (two times at tape width). This will make it more watertight.

2



① Stagger the connection points of each core. Strip the insulation slightly longer than the length of the splice or clamp. 5



- 1) Attach the mould to the connecting area
- ② Wind tape each edge thoroughly to prevent the resin from leaking out.
- ③ Completely mix the resin and pour it from the funnel in the center.

3



① Connect each conductor.

6



① After the resin has hardened - this should take 60 to 80 minutes - cut the funnels away with metal cutting saw.



Handling precautions for resin

Casting environment

- · Clean away any oil or dust on shell and cable surfaces.
- To prevent from exposure to water, use a tent or the like on the rainy day.

Mixing temperature

• If using the product in a cold environment (10°C or lower), heat the resin pack to at least 20°C before using it. Do not use direct fire or hot water for heating the resin pack.

Mixing

- · Remove the rubber divider in the center of the pack.
- · Squeeze the pack as though you were wringing out a towel, and alternate squeezing each side as you mix the resin back and forth (do this around 40 times to ensure the contents are thoroughly mixed). Resin located in the corners of the pack can be difficult to mix, so use a round bar or similar object at times to push them out and mix them.

If the two liquids are not mixed well it could cause hardening defects.

· Avoid direct sunlight and high temparature.

First-Aid Measurer

· If resin enters your eyes, immediately wash you eyes. And take medical consulting.

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