

CAST RESIN JOINTS

low voltage cast resin straight through joints

Shells:

The shells are manufactured on transparent synthetic material which allows a visual check of the connections before and after the casting.

Both the halves of the shell are joined by a snap closure which avoids further fixing or impermeabilizations.

The shells are left on the boxes after casting; in this way they represent an additional protection against mechanical, chemical or severe weather conditions actions.

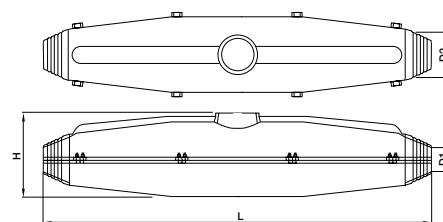


STRAIGHT JOINT

Type	Dimensions mm				Cable Dimensions	
	L	H	D1 ⁽¹⁾	D2 ⁽¹⁾	Cable Diameter mm	Suggested Cable Section mm ²
N11	200	50	8	26	8 - 25	4C x 1,5 ÷ 10
N12	260	67	16	32	16 - 31	4C x 10 ÷ 25
N13	360	75	21	38	21 - 36	4C x 35 ÷ 50
N14	400	100	26	41	26 - 39	4C x 50 ÷ 70
N15	530	130	35	56	35 - 54	4C x 95 ÷ 150
N16	700	150	47	74	45 - 72	4C x 185 ÷ 300

⁽¹⁾ Internal dimension of the shell

⁽²⁾ The listed sections are only approximate and concern harmonised, insulated in PVC or rubber cables at a working voltage of 0,6/1 kV

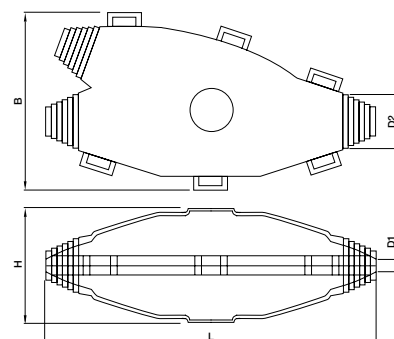


BRANCH JOINTS

Type	Dimensions mm					Cable Dimensions		
	L	H	B	D1 ⁽¹⁾	D2 ⁽¹⁾	Cable Diameter mm	Suggested Cable Section mm ²	
							Run	Tap
NY00	150	47	70	11	20	11 - 20	4C x 1,5 ÷ 2,5	4C x 1,5
NY0	175	60	94	6	22	6 - 21	4C x 4 ÷ 10	4C x 4
NY1	225	75	110	9	26	9 - 24	4C x 6 ÷ 25	4C x 16

⁽¹⁾ Internal dimension of the shell

⁽²⁾ The listed sections are only approximate and concern harmonised, insulated in PVC or rubber cables at a working voltage of 0,6/1 kV


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Cast resin technology:

Cast resin technology was especially developed to seal and protect power, signal and telephone cables.

This new generation of two component cast resin has been developed for the most demanding environments and circumstances. Our cast resin joints have been tested according to EN50393 as well as DIN VDE 57291-2 (VDE0291) standards, assuring only the highest quality.

Quick setting properties in humid or even cold conditions make it a fast and reliable solution.

No need to measure or mix with spatula. Just remove the dividing rail from the laminated Al-Pe bag and mix together.

No spillage, or mess at installation site. An extended shelf-life of the resins are now 48 months as standard even in the most difficult storage conditions.

The kit shells are made of durable PET resulting in good hydrophobic properties and excellent impact resistance.

Good adhesion to PVC and metals ensure a watertight seal and excellent impact resistance.

Technical data	Value	According to DIN VDE 0291
Pot life @		
5°C	35 min	
23°C	20 min	product conforms ± 30%
35°C	15 min	
Reactant Open cup flash point	> 200 °C	> 55
Tensile strength	≥ 8.0 Mpa	≥ 5.0
Hot aging	- 5 Shore A	- 7
Adhesive	> 1500 CP. S	< 1500
Tear elongation	≥ 100%	≥ 50
Gel time for 300 ml @	23 °C	
Pouch >1000 ml	26 min	product conforms ± 10%
Pouch <1000 ml	17 min	product conforms ± 10%
Max. reaction temp.	60 °C / 333 K	product conforms ± 10%
Total vol. variable when hardening	6 %	max. 6.5 %
Cast resin component Open cup flash point	> 200 °C	> 100
Density	1.07 g / cm ³	-
Impact strength	> 10 kJ / m ²	> 10 kJ / m ²
Hardness	75 Shore A	min. 20 Shore D
Expansion coefficient in temp. range of 20-50°C	5.9 x 10 ⁻⁴ K ⁻¹	product conforms ± 15%
Thermal conductivity	0.2W x m ⁻¹ x K ⁻¹	product conforms ± 20%
Flammability	Classe II c	acc. to DIN VDE 0304, part 3
Water absorption 42 days@50°C	360 mg	max. 400 mg
Electrolytic corrosion	A1	-
Voltage test @		no breakdown @ test voltage
23°C	> 20 kV	> 20 kV
80°C	> 10 kV	> 20 kV
Dielectric dissipation factor @		
23°C and 50 Hz	0.08	max. 0.1
23°C and 1k Hz	0.05	-
Relative permittivity		
@ 23°C and 50 Hz	5	< 6
@ 23°C and 1k Hz	5.1	-
Tracking resistance	KA 3c	min KA 3c
Physical values after 28 days of immersion in 90°C water		
Tensile strength	8.2N/mm ²	≥ 65% of initial value
Elongation at break	60%	≥ 65% of initial value
Hardness	47 Shore	≥ 80% of initial value

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