

CELLPACK

Cast-resin Technology

Moulds

The standard moulds used in the cast resin systems are made of thermoplastic synthetic materials, which provide the following properties:

- Excellent mechanical stability
- Highly resistant to water, watery solutions and diluted acids

The cast resin filled moulds have a shape which permits the cable installations in earth, ducts, and conduits, in water and on cable struts. The moulds are transparent which permit a visual check of the cable connection during pouring.

Cellpack cast resin moulds are shock resistant. The moulds lock into each other due to the snap on mechanism, additional fixing is therefore not necessary. The moulds also help in maintaining stability for softer cast resin (e.g. FG, WG and KG resins)

Cast resin

The resins can withstand several types of requirements when used for power, telecommunications and signal cable applications. Cellpack manufacture several types of cast resins which have various properties and application possibilities.

Most of our resins are delivered with a two chamber mixing bag which permits (after mixing) an easy pouring of the liquid. Prior to pouring, the two components are mixed together. The mould and the poured in resin form a complete self supporting system which protects and insulates the connection against humidity and external factors.

Generally the resins have a limited shelf life. Additionally one must be aware that the resins when mixed have a potting time which has to be respected.

Two Chamber Mixing Bag

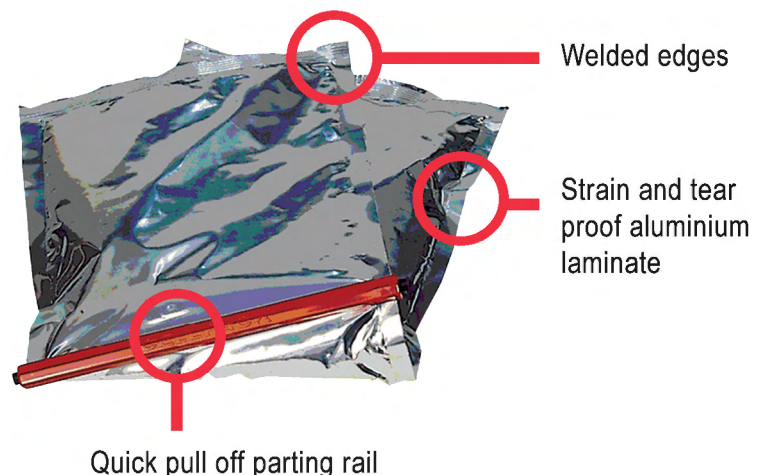
The Cellpack's two chamber mixing bags have a parting rail when opened, the resin and hardener can be mixed together in a closed environment. Hardener and resin can be poured easily together. The system is protected while mixing against external dirt and other foreign materials. The two components are mixed in such a way that very little amounts of non bound material remains in the system which gives the installer a safe and environment-friendly solution.

It is recommended to handle the mixing bags with care and wear gloves while working with them. After the cast resin has been poured the remaining hardened material can be thrown away in the household waste. Non hardened material must be disposed of as hazardous waste.

The Cellpack bags are made of a three layer laminated aluminium – plastic laminate material. The material is impermeable to gas and water therefore protected against air and humidity.

The bags are welded in several locations to give it mechanical stability and can resist high pressures.

Practical two chamber mixing bag



Cable Jointing

CELLPACK

Cellpack Straight Cable Joints



Voltage Level: 1.2 kV

Application: Universally suitable to connect low voltage plastic-insulated cables or connectors insulated with PVC, PE, VPE, and EPR.

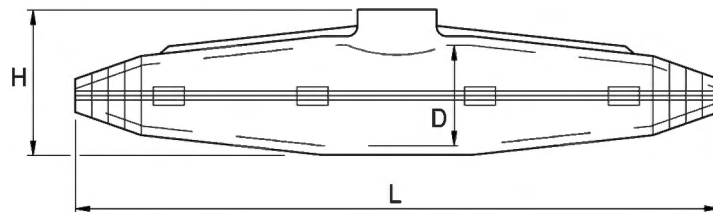
Suitable for both copper and aluminium conductors.

Application Ranges: Indoor, outdoor, underground, water (e.g submersible pumps), cable trays.

- Features:
- High electrical insulation values
 - Watertight both longitudinally and transversely
 - High mechanical strength
 - Good resistance against UV radiation, alkaline earths and chemical agents
 - Standard resin storable up to 40 months in the aluminium bag
 - Halogen-free polyurethane cast resin, containing the correct volume ready for mixing within a handy two-chamber mixing bag. No need for skin contact
 - Low hardening temperature, fast hardening with no toxic emission during the mixing and casting
 - High quality, transparent, shockproof polycarbonate moulds, compact size
 - Visible splice position before casting
 - Large insertion opening for easy casting
 - Extremely simple and fast fitting - saves time and costs
 - Immediately operational

Tests and Approvals: DIN VDE 0278 Part 1 and 2, DIN VDE 0278 PART 393, EN 50393 as well as CENELEC HD623 (VDE 0278, PART 623)

Mould Dimensions



Part No.	L (mm)	D (mm)	H (mm)
SJK1516	260	47	63
SJK1	190	36	50
SJK2	260	47	63
SJK3	360	55	75
SJK4	400	70	95
SJK5	530	100	120
SJK6	700	125	160
SJK7	900	150	170