



# Speed Safety Reliability



## 3M™ Scotchcast™ Low Voltage Splicing Kits

3M Scotchcast™ resin joint kits 91-series are designed to be used for multi-cores splicing application for low voltage energy cables. The applications incorporates electrical insulation and mechanical protection of joints with compression or mechanical connectors. They can be used for indoor and outdoor, underground and submerged applications.

In conjunction with other technologies, these kits utilize polyurethane resins to meet application requirements. 3M brand Scotchcast™ Resins are 100% solids, thermosetting, electrical grade, hydrolytically stable insulating resins.

## Product Description

3M™ Scotchcast™ resin inline joint kit will be delivered with a translucent mould body for simple and easy handling. Distances inside the body can be checked easily. All necessary dimensions, like application range, cable preparation are given in the detailed instructions.

## Testing

The Scotchcast™ Resin 460M was tested according to CENELEC HD 631.1.  
TYPICAL PROPERTIES 460M (Cured)

Appearance: Cream solid  
Hardness: 50 Shore D  
Density: 1.16  
Shrinkage during cure < 2.5 %

Impact strength > 20 J/cm<sup>2</sup>  
Tensile strength > 4 N/mm<sup>2</sup>  
Dielectric strength > 15 kV/mm  
Water absorption 30mg@24hrs, 23°C

Kit Ref	Cable OD Min/mm	Cable OD Max/mm	Estimated Cable Conductor*
91-A1	8	28	4-10 mm <sup>2</sup>
91-A2	14	32	16-25 mm <sup>2</sup>
91-A3	23	39	35-50 mm <sup>2</sup>
91-A4	28	51	70 mm <sup>2</sup>
91-A4.5	30	55	95 mm <sup>2</sup>
91-A5	45	70	120-150 mm <sup>2</sup>
91-A6	48	86	185-240 mm <sup>2</sup>

\* Main determinant will be the cable overall diameter (OD)

### Important Notice

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