



## 3M™ Inline Joints for Hazardous Area Armoured Power Cables – Scotchcast™ LR Series Joints

In-line joints for Armoured PVC & XLPE Power cables - 0.6/1kV and up to 3.3kV - Hydro-Carbon Resistant/Flame Retardant Resin Encapsulated - For use in Petrochem Zones 1 & 2

Also suitable for Lead sheathed cables, and Transition Joints.

Includes Scotchcast™ 1400U Resin that makes it suitable for areas where there is danger of gas, oil, sewage or chemical spillage.

| NOMINAL<br>CONDUCTOR<br>AREA (mm²) | SINGLE<br>CORE<br>0.6/1KV | 2<br>CORE<br>0.6/1KV | 3<br>CORE<br>0.6/1KV | 4<br>CORE<br>0.6/1KV |
|------------------------------------|---------------------------|----------------------|----------------------|----------------------|
| 1.5                                | N/A                       | LR20                 | LR20                 | LR20                 |
| 2.5                                | N/A                       | LR20                 | LR20                 | LR20                 |
| 4                                  | N/A                       | LR20                 | LR20                 | LR21                 |
| 6                                  | N/A                       | LR21                 | LR21                 | LR21                 |
| 10                                 | N/A                       | LR31                 | LR31                 | LR31                 |
| 16                                 | N/A                       | LR31                 | LR31                 | LR32                 |
| 25                                 | N/A                       | LR32                 | LR40                 | LR40                 |
| 35                                 | N/A                       | LR40                 | LR41                 | LR42                 |
| 50                                 | LR21                      | LR41                 | LR41                 | LR50                 |
| 70                                 | LR30                      | LR50                 | LR50                 | LR51                 |
| 95                                 | LR30                      | LR50                 | LR51                 | LR60                 |
| 120                                | LR40                      | LR51                 | LR61                 | LR61                 |
| 150                                | LR41                      | LR60                 | LR70                 | LR70                 |
| 185                                | LR41                      | LR61                 | LR70                 | LR71                 |
| 240                                | LR50                      | LR70                 | LR71                 | LR80                 |
| 300                                | LR50                      | LR71                 | LR71                 | LR80                 |
| 400                                | LR51                      | LR72                 | LR80                 | LR81                 |
| 500                                | LR51                      | N/A                  | N/A                  | N/A                  |
| 630                                | LR61                      | N/A                  | N/A                  | N/A                  |
| 800                                | LR62                      | N/A                  | N/A                  | N/A                  |
| 1000                               | LR72                      | N/A                  | N/A                  | N/A                  |

| SINGLE<br>CORE<br>1.9/3.3KV | 3<br>CORE<br>1.9/3.3KV |
|-----------------------------|------------------------|
| N/A                         | N/A                    |
| N/A                         | N/A                    |
| N/A                         | N/A                    |
| N/A                         | N/A                    |
| N/A                         | N/A                    |
| N/A                         | LR42                   |
| N/A                         | LR42                   |
| N/A                         | LR43                   |
| LR32                        | LR51                   |
| LR32                        | LR52                   |
| LR32                        | LR61                   |
| LR42                        | LR61                   |
| LR42                        | LR61                   |
| LR42                        | LR71                   |
| LR50                        | LR72                   |
| LR52                        | LR80                   |
| LR52                        | LR80                   |
| LR53                        | N/A                    |
| LR61                        | N/A                    |
| LR62                        | N/A                    |
| LR72                        | N/A                    |

| Kit Ref | TO SUIT<br>CABLE DIAMETER |          | TO SUIT DIAMETER<br>OVER LEAD SHEATH |          | TO SUIT DIAMETER<br>OVER ARMOUR |          |
|---------|---------------------------|----------|--------------------------------------|----------|---------------------------------|----------|
|         | MIN (mm)                  | MAX (mm) | MIN(mm)                              | MAX (mm) | MIN (mm)                        | MAX (mm) |
| LR20    | 14                        | 32       | 9                                    | 15       | 9                               | 15       |
| LR21    | 14                        | 32       | 9                                    | 15       | 14                              | 22       |
| LR30    | 23                        | 37       | 9                                    | 15       | 14                              | 22       |
| LR31    | 23                        | 37       | 14                                   | 22       | 14                              | 22       |
| LR32    | 23                        | 37       | 14                                   | 22       | 18.5                            | 29       |
| LR40    | 28                        | 51       | 14                                   | 22       | 18.5                            | 29       |
| LR41    | 28                        | 51       | 18.5                                 | 29       | 18.5                            | 29       |
| LR42    | 28                        | 51       | 18.5                                 | 29       | 23.5                            | 37       |
| LR43    | 28                        | 51       | 23.5                                 | 37       | 23.5                            | 37       |
| LR50    | 33                        | 60       | 18.5                                 | 29       | 23.5                            | 37       |
| LR51    | 33                        | 60       | 23.5                                 | 37       | 23.5                            | 37       |
| LR52    | 33                        | 60       | 23.5                                 | 37       | 31                              | 50       |
| LR53    | 33                        | 60       | 31                                   | 50       | 31                              | 50       |
| LR60    | 48                        | 80       | 23.5                                 | 37       | 31                              | 50       |
| LR61    | 48                        | 80       | 31                                   | 50       | 31                              | 50       |
| LR62    | 48                        | 80       | 31                                   | 50       | 44                              | 70       |
| LR70    | 45                        | 90       | 31                                   | 50       | 31                              | 50       |
| LR71    | 45                        | 90       | 31                                   | 50       | 44                              | 70       |
| LR72    | 45                        | 90       | 44                                   | 70       | 44                              | 70       |
| LR80    | 45                        | 100      | 44                                   | 70       | 44                              | 70       |
| LR81    | 45                        | 100      | 44                                   | 70       | 58                              | 94       |

Note: If this kit is to be used for a transition joint, Water-blocked connectors must be used