

Underground Distribution

Cable Joints

LV Resin Filled, Hazardous Area Cable Joints. UL 94 V0 Rated.

A complete range of hazardous area cable joints, designed for sites where there is danger from Gas, Oil, Sewage or Chemical spillage.

Sicame Electrical Developments in line Hazardous area LV cable joints are designed for use with Armoured or Unarmoured Lead Sheathed XLPE/PVC cables, with multi core conductors rated at $\leq 3.3\text{kV}$ and cover the complete range of conductor sizes from 1.5 to 300mm² (400mm²).

These joints have been designed to utilise joint shells and resin which are:

- Hydrocarbon Resistant
- Flame Retardant
- Chemical Resistant
- Heat Resistant
- Halogen Free

Sicame have developed and manufactured a polyurethane resin compound which has been specifically designed to comply with UL94 V0, giving it the highest category of burn resistance.

High strength, transparent 'snap' joint shells are injection moulded from a high impact polycarbonate material. These are additionally tinted red to indicate suitability for hazardous environments.

Standard kits include a range of Sicame mechanical connectors, with grub screws for smaller conductors up to 35mm² and shear torque bolts up to 400mm². All connectors have been tested and comply with the requirements of BS EN 61238-1 & C79.

The joint has been designed to meet the requirements of BS EN50393-1.

- ATEX Ex mb II T4 approval (pending).
- All required materials, connectors and accessories included in one joint kit.
- All mechanical phase connectors (with tooling) supplied.
- Suitable for Zones 1 & 2
- Unique hydrocarbon resistant and flame retardant joint shell and resin.
- Simple 2 chamber resin mixing pouch.
- 3 year shelf life on resin (from date of manufacture)



Armoured Cable

Cable Cross Section Section (mm²)	1 Core 0.6/1kV	2 core 0.6/1kV	3 core 0.6/1kV	4 core 0.6/1kV	1 core 1.9/3.3kV	3 core 1.9/3.3kV		
1.5		HLV/1						
2.5								
4.0								
6								
10		HLV/2				HLV/3		
16								
25								
35		HLV/3					HLV/4	
50	HLV/7							
70	HLV/8	HLV/4			HLV/5			
95								
120								
150	HLV/9	HLV/5			HLV/9	HLV/5		
185								
240	HLV/10				HLV/10			
300								
400								

Unarmoured Cable

Cable Cross Section Section (mm ²)	1 Core 0.6/1kV	2 core 0.6/1kV	3 core 0.6/1kV	4 core 0.6/1kV
1.5		HLVU/1		
2.5				
4.0				
6				
10		HLVU/2		
16				
25				
35				
50		HLVU/3		
70				
95				
120				
150		HLVU/4		
185				
240				
300		HLVU/5		
400				



Typical kit contents



Typical mechanical connectors and tooling

General Note The equipment detailed in this publication should be installed by a suitable qualified person. Sicame Electrical Developments Ltd reserves the right to make changes in product specification without notice or liability. All information is subject to Sicame Electrical Developments own data and is considered accurate at the time of going to print.

