

BUSBAR INSULATION AND COVERS

# S1-A Wrap Around Overhead Line Cover 380 V to 110 kV

A wrap around insulating cover with a built in creepage device that clips onto a live route conductor without disconnection



|                       |                                   |
|-----------------------|-----------------------------------|
| Voltage Class         | 380 V to 110 kV                   |
| Operating Temperature | -40 to 105 °C                     |
| Packaging             | 20 m per roll                     |
| Colours               | Red green yellow or black         |
| Compliance            | Environmentally friendly and RoHS |
| Cross Reference       | TE Raychem MULC                   |

### Introduction

Suitable for improving insulation and preventing short circuits of overhead conductors of various voltage levels; Strengthen the three-phase insulation protection of the transition line from medium and high voltage lines to the main transformer station; Used for the lead part of oil switches on columns and urban public transformers. Installation is simple and fast, with built-in creepage growth device to increase creepage distance and improve insulation performance. Excellent weather resistance, UV resistance, and mechanical damage resistance

### Features

- Operating temperature: -40 to 105°C
- Voltage Class:380V~110 kV
- Environmental friendly, RoHS compliant
- Standard Color: Red, Green, Yellow, Black
- Standard Packaging: 20m/roll

### Technical Data

| Property                                                           | Test Method | Requirement   |
|--------------------------------------------------------------------|-------------|---------------|
| Tensile Strength                                                   | ASTM D2671  | ≥12 MPa       |
| Ultimate Elongation                                                | ASTM D2671  | ≥300%         |
| Heat Aging (136°C/168h)<br>Tensile Strength Ultimate<br>Elongation | ASTM D2671  | ≥10 MPa ≥200% |
| Water absorption (23°C/24h)                                        | ASTM D2671  | ≤0.5%         |
| Low-temperature flexibility<br>(-40°C/4h)                          | ASTM D2671  | No cracking   |

| Property                        | Test Method | Requirement                                                                      |
|---------------------------------|-------------|----------------------------------------------------------------------------------|
| Dielectric strength             | ASTM D2671  | ≥20 kV/mm                                                                        |
| Volume resistivity              | ASTM D2671  | ≥1.0×10 <sup>13</sup> Ω·cm                                                       |
| Dielectric constant             | IEC 250     | ≤5.0                                                                             |
| Tracking and erosion resistance | ASTM D2303  | After 1hr at 2.5kV, and 1hr at 2.75kV, No burn penetration, no sustained burning |
| Flammability                    | ASTM D2863  | Oxygen index 27 min.                                                             |

## Dimensions

| Size | Voltage class | Size for conductor (mm <sup>2</sup> ) | Conductor diameter maximum (mm) |
|------|---------------|---------------------------------------|---------------------------------|
| Ø14A | 380V~10kV     | ≤70                                   | 14                              |
| Ø18A | 380V~10kV     | 95                                    | 18                              |
| Ø20A | 380V~10kV     | 120~150                               | 20                              |
| Ø28A | 380V~10kV     | 185~300                               | 28                              |
| Ø38A | 380V~10kV     | 400~800                               | 38                              |
| Ø14B | 35kV~110kV    | ≤70                                   | 14                              |
| Ø18B | 35kV~110kV    | 95                                    | 18                              |
| Ø20B | 35kV~110kV    | 120~150                               | 20                              |
| Ø28B | 35kV~110kV    | 185~300                               | 28                              |
| Ø38B | 35kV~110kV    | 400~800                               | 38                              |

## Cross Reference

Tyco-Raychem: MULC

Enquiries • enquiry@upolymer.com • WhatsApp +86 159 4096 9469 • Dalian United Polymer Material Co., Ltd., Shihe Industrial Park, Puwan New District, Dalian Liaoning 116101 China