

## STRESS CONTROL AND INSULATION TUBES

# C102-10 Stress Control Heat Shrink Tube up to 24 kV

High permittivity black tubing that redistributes the electrical field at the screen cut back on 6 to 24 kV cable



|                           |                            |
|---------------------------|----------------------------|
| Voltage Range             | 6 kV to 24 kV              |
| Operating Temperature     | -55 to 105 °C              |
| Full Recovery Temperature | 125 °C minimum             |
| Shrink Ratio              | 2.5:1                      |
| Dielectric Constant       | 10 to 25 per IEC 62631-2-1 |
| Cross Reference           | TE Raychem JSCR            |

## Introduction

Stress control heat shrink tube. Electrical stress control protection of power cable termination and joint Products in 10kV(C102-10) and 35kV(C102-35) ratings are offered

## Features

- Operating temperature: -55 to 105°C
- Minimum fully recovery temperature: 125°C
- Single or Dual wall(adhesive-lined) optional
- Shrink ratio: 2.5:1
- Standard Color: Black
- Equivalent to TE JSCR

## 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 Elongation | ASTM D2671    | ≥10 MPa ≥250%              |
| Water absorption (23°C/24h)                                     | ASTM D2671    | ≤1.0%                      |
| Low-temperature flexibility (-40°C/4h)                          | ASTM D2671    | No cracking                |
| Heat shock (200°C/4h)                                           | ASTM D2671    | No splitting               |
| Volume resistivity                                              | ASTM D2671    | ≥1.0×10 <sup>11</sup> Ω·cm |
| Dielectric constant                                             | IEC 62631-2-1 | 10 to 25                   |
| Loss factor(50Hz)                                               | IEC 62631-2-1 | ≤ 1.0 (1000V)              |

## Dimensions

| Size C102-10 | As supplied(mm) Inner diameter D (min.) | After recovered (mm) Inner diameter d (max.) | Wall thickness t (nom.) | Standard length (m/pcs) |
|--------------|-----------------------------------------|----------------------------------------------|-------------------------|-------------------------|
| 26/10        | 26                                      | 10                                           | 2.6                     | Spool or ≤1.5           |
| 30/12        | 30                                      | 12                                           | 2.7                     | Spool or ≤1.5           |
| 35/14        | 35                                      | 14                                           | 2.8                     | Spool or ≤1.5           |
| 40/16        | 40                                      | 16                                           | 3                       | Spool or ≤1.5           |
| 47/18        | 47                                      | 18                                           | 3                       | Spool or ≤1.5           |
| 55/21        | 55                                      | 21                                           | 3                       | ≤1.5                    |
| 65/24        | 65                                      | 24                                           | 3                       | ≤1.5                    |

| Size C102-10 | As supplied(mm) Inner diameter D (min.) | After recovered (mm) Inner diameter d (max.) | Wall thickness t (nom.) | Standard length (m/pcs) |
|--------------|-----------------------------------------|----------------------------------------------|-------------------------|-------------------------|
| 85/30        | 85                                      | 30                                           | 3.2                     | ≤1.5                    |
| 95/45        | 95                                      | 45                                           | 3                       | ≤1.5                    |

Cross Reference

Tyco-Raychem: JSCR

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