



ENGLISH

# Datasheet

## RS 12.7 mm Black Heat Shrink Tubing 2:1, 300 mm Length

RS Stock 417-7283



### Properties

| Properties | Items                           | Requirements                       | Typical values*1            |
|------------|---------------------------------|------------------------------------|-----------------------------|
| Mechanical | Tensile strength (before aging) | min. 10.4MPa                       | 13.4MPa                     |
|            | Elongation (before aging)       | min. 200%                          | 410%                        |
|            | Elongation (after aging)        | 175°C x 7 days, min. 100%          | 410%                        |
|            | Low temperature flexibility     | -55°C x 4 hours, no crack          | pass                        |
|            | Heat shock                      | 250°C x 4 hours, no crack          | pass                        |
|            | Gravity                         | max. 1.35                          | 1.32                        |
| Electrical | Dielectric strength             | min. 19.7kV/mm                     | 37.1kV/mm                   |
|            | Volume resistivity              | min. 1.0 x 10 <sup>14</sup> Ω-cm   | 3.1 x 10 <sup>14</sup> Ω-cm |
| Chemical   | Water absorption                | 23°C x 24 hours, max. 0.50%        | 0.28%                       |
|            | Corrosion against bare copper   | 175°C x 16 hours, no corrosion     | pass                        |
|            | Colour stability                | 175°C x 24 hours, no change        | pass                        |
|            | Fluid resistance                | After immersed at 24°C x 24 hours, |                             |
|            | Tensile strength                | min. 6.9MPa                        | 13.1MPa                     |
|            | Dielectric strength             | min. 15.8kV/mm                     | 30.5kV/mm                   |
|            | Flammability                    | Flame-retardant, pass VW-1         | pass                        |



## Specification

### ■Basic Properties

- (1) Materials : Irradiated cross-linked flexible polyolefin
- (2) Shrink temperature : min. 90°C
- (3) Shrink Ratio : Radial change: min. 50%  
Longitudinal change: 0 +/- 5%
- (4) Continuous Operating Temperature : -55 to 135°C

### ■Features

- (1) SAE-AMS/UL/CSA approved
- (2) Flame-retardant
- (3) Flexible
- (4) Bright colour

### ■Specification

- Rating temperature: 125°C  
Rating voltage: 600V  
Rating temperature: 125°C  
Rating voltage: 600V  
Flammability: VW-1

### ■Application

- (1) Insulation, protection and reinforcement for termination and joints of electric wire
- (2) Colour identification and bundling for electric wires
- (3) Insulation and protection for resistor and condenser