

## BSTS/BSTS-FR

### General Purpose, Heat-Shrinkable Tubing

#### Product Facts

- Excellent thick-wall insulation and abrasion protection
- No adhesive – can be removed easily
- Expansion ratios as high as 3:1
- Availability in flame-retardant material with FR callout (see “Ordering information and Part numbering system” on the next page)
- BSTS has the following agency approvals:
  - ABS (American Bureau of Shipping)
  - Lloyd's (Lloyd's Register of Shipping)
- RoHS compliant



#### Applications

BSTS heat-shrinkable tubing is made of a rugged polymer that resists moisture, fungus, and weathering. It also has excellent electrical properties. This tubing is useful in applications where insulation, abrasion resistance, and strain relief are important. When used with sealant tape (S-1305 for flame-retardant or S-1278 for non-flame-retardant), it can provide a watertight system in nonpressurized applications.

#### Installation

Minimum shrink temperature: 90°C [194°F]  
Minimum full recovery temperature: 121°C [250°F]

#### Operating Temperature Range

-55°C to 110°C  
[-67°F to 230°F]

#### Specifications/Approvals

| Series  | Military                                 | Industry               | Raychem |
|---------|------------------------------------------|------------------------|---------|
| BSTS    | —                                        | —                      | RW-2017 |
| BSTS-FR | AMS-DTL-23053/15*, Class 1 and Class 2** | ASTM D 685, nonburning | RW-2017 |

\*Formerly MIL-I-23053/15 and MIL-DTL-23053/15.

\*\*Except for coatings requirement. Refer to SST-FR when coating is required.

| Available in: | Americas | Europe | Asia Pacific |
|---------------|----------|--------|--------------|
|               | ■        | ■      | ■            |

## BSTS/BSTS-FR (Continued)

### Product Dimensions

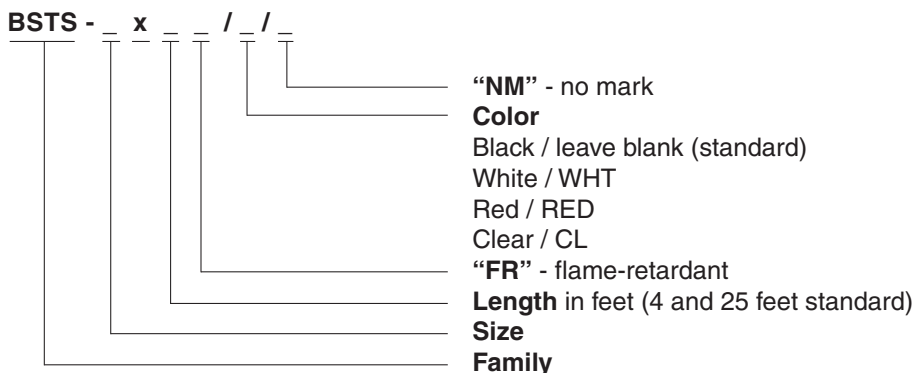
| Size    | Inside Diameter              |                                 | Wall Thickness (Nominal) |                            |
|---------|------------------------------|---------------------------------|--------------------------|----------------------------|
|         | Minimum Expanded as Supplied | Maximum Recovered After Heating | Expanded as Supplied     | Recovered After Heating*** |
| BSTS-03 | 7.62 [0.300]                 | 2.54 [0.100]                    | 0.63 [0.025]             | 1.78 [0.070]               |
| BSTS-04 | 10.16 [0.400]                | 3.81 [0.150]                    | 0.63 [0.025]             | 1.78 [0.070]               |
| BSTS-07 | 19.05 [0.750]                | 5.59 [0.220]                    | 0.76 [0.030]             | 2.41 [0.095]               |
| BSTS-11 | 27.94 [1.100]                | 9.52 [0.375]                    | 1.02 [0.040]             | 3.05 [0.120]               |
| BSTS-13 | 33.02 [1.300]                | 9.52 [0.375]                    | 0.89 [0.035]             | 3.05 [0.120]               |
| BSTS-15 | 38.10 [1.500]                | 12.70 [0.500]                   | 1.27 [0.050]             | 3.56 [0.140]               |
| BSTS-17 | 43.18 [1.700]                | 12.70 [0.500]                   | 1.14 [0.045]             | 3.56 [0.140]               |
| BSTS-20 | 50.80 [2.000]                | 19.05 [0.750]                   | 1.27 [0.050]             | 3.94 [0.160]               |
| BSTS-27 | 65.58 [2.700]                | 22.86 [0.900]                   | 1.27 [0.050]             | 3.94 [0.160]               |
| BSTS-30 | 76.20 [3.000]                | 31.75 [1.250]                   | 1.27 [0.050]             | 3.94 [0.160]               |
| BSTS-35 | 88.90 [3.500]                | 31.75 [1.250]                   | 1.27 [0.050]             | 3.94 [0.160]               |
| BSTS-40 | 101.60 [4.000]               | 44.45 [1.750]                   | 1.27 [0.050]             | 3.94 [0.160]               |
| BSTS-45 | 114.30 [4.500]               | 44.45 [1.750]                   | 1.27 [0.050]             | 3.94 [0.160]               |

\*\*\*Wall thickness will be less if tubing recovery is restricted during shrinkage.

### Ordering Information

|                      |                                                                                                                                         |                                                             |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| Color                | Standard                                                                                                                                | Black                                                       |
|                      | Nonstandard                                                                                                                             | White, Yellow, Red and Clear (Clear is non-flame retardant) |
| Size selection       | Always order the largest size that will shrink snugly over the component to be covered. Special order sizes are available upon request. |                                                             |
| Standard packaging   | 1.2-meter [4-foot] or 7.5-meter [25-foot] lengths.                                                                                      |                                                             |
| Ordering description | See below.                                                                                                                              |                                                             |

### Part Numbering System



Example: BSTS-11X4/NM

# Mouser Electronics

Authorized Distributor

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## TE Connectivity:

[BSTS-04X25](#) [BSTS-30X25FR](#) [BSTS-04X4](#) [BSTS-07X4](#) [BSTS-17X4](#) [BSTS-27X4](#) [BSTS-03X4](#) [BSTS-07X25](#)  
[BSTS-11X25](#) [BSTS-11X25/CL](#) [BSTS-11X25/NM](#) [BSTS-11X25-CL/NM](#) [BSTS-13X25/CL](#) [BSTS-13X25/NM](#) [BSTS-](#)  
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