

RU **SP** HSTTK Kynar* Heat Shrink 4 Foot Pieces

- Applications include insulating and protecting wires and cables
- Excellent chemical and abrasion resistance
- Use in high temperature or solvent rich environment
- Voltage: 600 V
- Shrink ratio: 2:1
- Flammability: Meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/8
- Temperature range: -67°F to 347°F (-55°C to 175°C)
- For dry locations
- Material: Clear Cross-linked Polyvinylidene Fluoride (PVDF)



| Part Number | Nominal Diameter | | Min. Expanded I.D. | | Max. Recovered I.D. | | Nominal Recovered Wall Thickness | | Std. Pkg. Qty. |
|---------------|------------------|------|--------------------|------|---------------------|------|----------------------------------|-----|----------------|
| | In. | mm | In. | mm | In. | mm | In. | mm | |
| HSTTK05-48-Q | 0.046 | 1.2 | 0.046 | 1.2 | 0.023 | 0.6 | 0.010 | 0.3 | 25 |
| HSTTK06-48-Q | 0.063 | 1.6 | 0.063 | 1.6 | 0.031 | 0.8 | 0.010 | 0.3 | 25 |
| HSTTK09-48-Q | 0.093 | 2.4 | 0.093 | 2.4 | 0.046 | 1.2 | 0.010 | 0.3 | 25 |
| HSTTK12-48-Q | 0.125 | 3.2 | 0.125 | 3.2 | 0.062 | 1.6 | 0.010 | 0.3 | 25 |
| HSTTK19-48-Q | 0.187 | 4.8 | 0.187 | 4.8 | 0.093 | 2.4 | 0.010 | 0.3 | 25 |
| HSTTK25-48-Q | 0.250 | 6.4 | 0.250 | 6.4 | 0.125 | 3.2 | 0.012 | 0.3 | 25 |
| HSTTK38-48-Q | 0.375 | 9.5 | 0.375 | 9.5 | 0.187 | 4.8 | 0.012 | 0.3 | 25 |
| HSTTK50-48-5 | 0.500 | 12.7 | 0.500 | 12.7 | 0.250 | 6.4 | 0.012 | 0.3 | 5 |
| HSTTK75-48-5 | 0.750 | 19.1 | 0.750 | 19.1 | 0.375 | 9.5 | 0.017 | 0.4 | 5 |
| HSTTK100-48-5 | 1.00 | 25.4 | 1.00 | 25.4 | 0.500 | 12.7 | 0.019 | 0.5 | 5 |

*KYNAR is a registered trademark of Atofina Chemicals, Inc.

RU HSTTVA Heat Shrink 4 Foot and 6 Inch Pieces

- Applications include insulating and protecting wires and cables
- Flexible tubing with an adhesive inner wall which seals and protects components from moisture and corrosion
- Voltage rating: 600 V
- Shrink ratio: 2:1
- Flammability: Outer wall flame retardant
- Mil Spec: AMS-DTL-23053/4 Class 2
- Temperature range: -67°F to 230°F (-55°C to 110°C)
- For damp locations
- Material: Adhesive lined black cross-linked Polyolefin



| Part Number | Nominal Diameter | | Min. Expanded I.D. | | Max. Recovered I.D. | | Nominal Recovered Wall Thickness | | Std. Pkg. Qty. |
|--------------------------|------------------|------|--------------------|------|---------------------|------|----------------------------------|-----|----------------|
| | In. | mm | In. | mm | In. | mm | In. | mm | |
| 4' (1.22m) Pieces | | | | | | | | | |
| HSTTVA12-48-Q | 0.125 | 3.2 | 0.125 | 3.2 | 0.062 | 1.6 | 0.021 | 0.5 | 25 |
| HSTTVA19-48-Q | 0.187 | 4.8 | 0.187 | 4.8 | 0.093 | 2.4 | 0.023 | 0.6 | 25 |
| HSTTVA25-48-Q | 0.250 | 6.4 | 0.250 | 6.4 | 0.125 | 3.2 | 0.029 | 0.7 | 25 |
| HSTTVA38-48-Q | 0.375 | 9.5 | 0.375 | 9.5 | 0.187 | 4.8 | 0.029 | 0.7 | 25 |
| HSTTVA50-48-5 | 0.500 | 12.7 | 0.500 | 12.7 | 0.250 | 6.4 | 0.030 | 0.8 | 5 |
| HSTTVA75-48-5 | 0.750 | 19.1 | 0.750 | 19.1 | 0.375 | 9.5 | 0.035 | 0.9 | 5 |
| HSTTVA100-48-5 | 1.00 | 25.4 | 1.00 | 25.4 | 0.500 | 12.7 | 0.042 | 1.1 | 5 |
| HSTTVA150-48-5 | 1.50 | 38.1 | 1.50 | 38.1 | 0.750 | 19.1 | 0.047 | 1.2 | 5 |

Table continues on page C3.36

A. System Overview

HSTTVA Heat Shrink 4 Foot and 6 Inch Pieces (continued)

B1. Cable Ties

| Part Number | Nominal Diameter | | Min. Expanded I.D. | | Max. Recovered I.D. | | Nominal Recovered Wall Thickness | | Std. Pkg. Qty. | Pieces per Package |
|----------------------------|------------------|------|--------------------|------|---------------------|------|----------------------------------|-----|----------------|--------------------|
| | In. | mm | In. | mm | In. | mm | In. | mm | | |
| 6" (152.4mm) Pieces | | | | | | | | | | |
| HSTTVA12-Y | 0.125 | 3.2 | 0.125 | 3.2 | 0.062 | 1.6 | 0.020 | 0.5 | 1 | 7 |
| HSTTVA19-Y | 0.187 | 4.8 | 0.187 | 4.8 | 0.093 | 2.4 | 0.022 | 0.6 | 1 | 7 |
| HSTTVA25-Y | 0.250 | 6.4 | 0.250 | 6.4 | 0.125 | 3.2 | 0.030 | 0.8 | 1 | 5 |
| HSTTVA38-Y | 0.375 | 9.5 | 0.375 | 9.5 | 0.187 | 4.8 | 0.031 | 0.8 | 1 | 4 |
| HSTTVA50-Y | 0.500 | 12.7 | 0.500 | 12.7 | 0.250 | 6.4 | 0.032 | 0.8 | 1 | 4 |
| HSTTVA75-Y | 0.750 | 19.1 | 0.750 | 19.1 | 0.375 | 9.5 | 0.037 | 0.9 | 1 | 3 |
| HSTTVA100-Y | 1.00 | 25.4 | 1.00 | 25.4 | 0.500 | 12.7 | 0.046 | 1.2 | 1 | 2 |

B2. Cable Accessories

B3. Stainless Steel Ties

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

F. Index

HSTTA Heat Shrink 4 Foot and 6 Inch Pieces

- Applications include insulating and protecting wires and cables
- Flexible tubing with an adhesive inner wall which seals and protects components from moisture and corrosion
- Voltage rating: 600 V
- Shrink ratio: 3:1
- Flammability: Outer wall flame retardant
- Mil Spec: AMS-DTL-23053/4 Class 3
- Temperature range: -67°F to 230°F (-55°C to 110°C)
- For damp locations
- Material: Adhesive lined black cross-linked Polyolefin



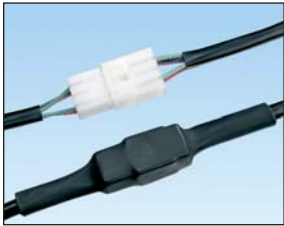
| Part Number | Nominal Diameter | | Min. Expanded I.D. | | Max. Recovered I.D. | | Nominal Recovered Wall Thickness | | Std. Pkg. Qty. | Std. Ctn. Qty. |
|--------------------------|------------------|------|--------------------|------|---------------------|------|----------------------------------|-----|----------------|----------------|
| | In. | mm | In. | mm | In. | mm | In. | mm | | |
| 4' (1.22m) Pieces | | | | | | | | | | |
| HSTTA19-48-Q | 0.187 | 4.8 | 0.187 | 4.8 | 0.062 | 1.6 | 0.040 | 1.0 | 25 | — |
| HSTTA25-48-Q | 0.250 | 6.4 | 0.250 | 6.4 | 0.080 | 2.0 | 0.040 | 1.0 | 25 | — |
| HSTTA25-48-TL | 0.250 | 6.4 | 0.250 | 6.4 | 0.080 | 2.0 | 0.040 | 1.0 | 250 | — |
| HSTTA38-48-Q | 0.375 | 9.5 | 0.375 | 9.5 | 0.120 | 3.0 | 0.055 | 1.4 | 25 | — |
| HSTTA38-48-TL | 0.375 | 9.5 | 0.375 | 9.5 | 0.120 | 3.0 | 0.055 | 1.4 | 250 | — |
| HSTTA50-48-5 | 0.500 | 12.7 | 0.500 | 12.7 | 0.160 | 4.1 | 0.070 | 1.8 | 5 | — |
| HSTTA50-48-T | 0.500 | 12.7 | 0.500 | 12.7 | 0.160 | 4.1 | 0.070 | 1.8 | 200 | — |
| HSTTA75-48-5 | 0.750 | 19.1 | 0.750 | 19.1 | 0.250 | 6.4 | 0.085 | 2.2 | 5 | — |
| HSTTA75-48-C | 0.750 | 19.1 | 0.750 | 19.1 | 0.250 | 6.4 | 0.085 | 2.2 | 100 | — |
| HSTTA100-48-5 | 1.00 | 25.4 | 1.00 | 25.4 | 0.320 | 8.1 | 0.100 | 2.5 | 5 | — |
| HSTTA100-48-L | 1.00 | 25.4 | 1.00 | 25.4 | 0.320 | 8.1 | 0.100 | 2.5 | 50 | — |
| HSTTA150-48-5 | 1.50 | 38.1 | 1.50 | 38.1 | 0.510 | 12.9 | 0.100 | 2.5 | 5 | — |
| HSTTA150-48-Q | 1.50 | 38.1 | 1.50 | 38.1 | 0.510 | 12.9 | 0.100 | 2.5 | 25 | — |

| Part Number | Nominal Diameter | | Min. Expanded I.D. | | Max. Recovered I.D. | | Nominal Recovered Wall Thickness | | Std. Pkg. Qty. | Std. Ctn. Qty. | Pieces per Package |
|----------------------------|------------------|------|--------------------|------|---------------------|------|----------------------------------|-----|----------------|----------------|--------------------|
| | In. | mm | In. | mm | In. | mm | In. | mm | | | |
| 6" (152.4mm) Pieces | | | | | | | | | | | |
| HSTTA19-Y | 0.187 | 4.8 | 0.187 | 4.8 | 0.062 | 1.6 | 0.040 | 1.0 | 1 | 10 | 6 |
| HSTTA25-Y | 0.250 | 6.4 | 0.250 | 6.4 | 0.080 | 2.0 | 0.040 | 1.0 | 1 | 10 | 4 |
| HSTTA38-Y | 0.375 | 9.5 | 0.375 | 9.5 | 0.120 | 3.0 | 0.055 | 1.4 | 1 | 10 | 3 |
| HSTTA50-Y | 0.500 | 12.7 | 0.500 | 12.7 | 0.160 | 4.1 | 0.070 | 1.8 | 1 | 10 | 3 |
| HSTTA75-Y | 0.750 | 19.1 | 0.750 | 19.1 | 0.250 | 6.4 | 0.085 | 2.2 | 1 | 10 | 2 |
| HSTTA100-Y | 1.00 | 25.4 | 1.00 | 25.4 | 0.320 | 8.1 | 0.100 | 2.5 | 1 | 10 | 2 |
| HSTTA150-Y | 1.50 | 38.1 | 1.50 | 38.1 | 0.510 | 12.9 | 0.100 | 2.5 | 1 | 10 | 1 |

HSTT4A Heat Shrink 4 Foot Pieces

- Applications include insulating and protecting oversized electrical and electronic components, cables, terminals and connectors
- Flexible tubing with an adhesive inner wall which seals and protects components from moisture and corrosion
- Voltage: 600 V
- Shrink ratio: 4:1

- Flammability: Flame retardant outer wall meets UL 224 VW-1
- Mil Spec: AMS-DTL-23053/4 Class 3
- Temperature range: -67°F to 257°F (-55°C to 125°C)
- For damp locations
- Material: Adhesive lined black cross-linked Polyolefin



| Part Number | Nominal Diameter | | Min. Expanded I.D. | | Max. Recovered I.D. | | Nominal Recovered Wall Thickness | | Length | | Std. Pkg. Qty. |
|----------------|------------------|------|--------------------|------|---------------------|------|----------------------------------|------|--------|-----|----------------|
| | In. | mm | In. | mm | In. | mm | In. | mm | Ft. | m | |
| HSTT4A15-48-Q | 0.158 | 4.0 | 0.158 | 4.0 | 0.039 | 1.0 | 0.043 | 1.10 | 4 | 1.2 | 25 |
| HSTT4A31-48-Q | 0.315 | 8.0 | 0.315 | 8.0 | 0.079 | 2.0 | 0.043 | 1.10 | 4 | 1.2 | 25 |
| HSTT4A47-48-Q | 0.472 | 12.0 | 0.472 | 12.0 | 0.118 | 3.0 | 0.055 | 1.40 | 4 | 1.2 | 25 |
| HSTT4A62-48-5 | 0.630 | 16.0 | 0.630 | 16.0 | 0.158 | 4.0 | 0.070 | 1.80 | 4 | 1.2 | 5 |
| HSTT4A94-48-5 | 0.945 | 24.0 | 0.945 | 24.0 | 0.236 | 6.0 | 0.088 | 2.25 | 4 | 1.2 | 5 |
| HSTT4A125-48-5 | 1.26 | 32.0 | 1.26 | 32.0 | 0.315 | 8.0 | 0.100 | 2.54 | 4 | 1.2 | 5 |
| HSTT4A200-48-5 | 2.05 | 52.0 | 2.05 | 52.0 | 0.512 | 13.0 | 0.100 | 2.54 | 4 | 1.2 | 5 |

HSTTRA Heat Shrink 4 Foot Pieces

- Applications include insulating and protecting wires and cables
- Semi-rigid tubing with an adhesive inner wall seals and protects components from moisture and corrosion
- Voltage rating: 600 V
- Shrink ratio: 2.5:1 Minimum

- Mil Spec: AMS-DTL-23053/4 Class 1
- Temperature range: -67°F to 230°F (-55°C to 110°C)
- For damp locations
- Material: Adhesive lined black cross-linked Polyolefin



| Part Number | Nominal Diameter | | Min. Expanded I.D. | | Max. Recovered I.D. | | Nominal Recovered Wall Thickness | | Std. Pkg. Qty. |
|----------------|------------------|------|--------------------|------|---------------------|------|----------------------------------|-----|----------------|
| | In. | mm | In. | mm | In. | mm | In. | mm | |
| HSTTRA12-48-Q | 0.125 | 3.2 | 0.125 | 3.2 | 0.023 | 0.6 | 0.038 | 1.0 | 25 |
| HSTTRA19-48-Q | 0.187 | 4.8 | 0.187 | 4.8 | 0.060 | 1.5 | 0.043 | 1.1 | 25 |
| HSTTRA25-48-Q | 0.250 | 6.4 | 0.250 | 6.4 | 0.080 | 2.0 | 0.047 | 1.2 | 25 |
| HSTTRA38-48-Q | 0.375 | 9.5 | 0.375 | 9.5 | 0.135 | 3.4 | 0.050 | 1.3 | 25 |
| HSTTRA50-48-5 | 0.500 | 12.7 | 0.500 | 12.7 | 0.195 | 5.0 | 0.055 | 1.4 | 5 |
| HSTTRA75-48-5 | 0.750 | 19.1 | 0.750 | 19.1 | 0.313 | 8.0 | 0.065 | 1.7 | 5 |
| HSTTRA100-48-5 | 1.00 | 25.4 | 1.00 | 25.4 | 0.400 | 10.2 | 0.075 | 1.9 | 5 |

A. System Overview

B1. Cable Ties

B2. Cable Accessories

B3. Stainless Steel Ties

C1. Wiring Duct

C2. Surface Raceway

C3. Abrasion Protection

C4. Cable Management

D1. Terminals

D2. Power Connectors

D3. Grounding Connectors

E1. Labeling Systems

E2. Labels

E3. Pre-Printed & Write-On Markers

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Part Number System for Thin Wall Heat Shrink

HSTT

| Type | Expanded Diameter | Tube Length | Package Quantity | Color |
|--|-----------------------|--------------------|---|-----------------------|
| HSTT = Thin Wall | 05 = 3/64" (1.2mm) | 3 = 3" (76.2mm) | (If Tube Length Specified) | NONE = Black |
| HSTTV = Thin Wall VW-1 | 06 = 1/16" (1.6mm) | 6 = 6" (152.4mm) | 1 = 1 pc. | C = Clear |
| HSTTN = Thin Wall Neoprene | 09 = 3/32" (2.4mm) | 9 = 9" (228.6mm) | 2 = 2 Pcs. | 2 = Red |
| HSTTK = Thin Wall PVDF KYNAR ▲ | 12 = 1/8" (3.2mm) | 12 = 12" (304.8mm) | 3 = 3 Pcs. | 4 = Yellow |
| HSTTT = Thin Wall TFE ‡ | 19 = 3/16" (4.8mm) | 48 = 48" (1.2m) | 5 = 5 Pcs. | 5 = Green |
| HSTTP = Thin Wall PVC | 25 = 1/4" (6.4mm) | NONE = REEL | X = 10 Pcs. | 6 = Blue |
| HSTTPN = Crystal Clear Thin Wall PVC | 38 = 3/8" (9.5mm) | | Q = 25 Pcs. | 10 = White |
| HSTTVA = Flexible Adhesive Lined | 50 = 1/2" (12.7mm) | | LQ = 75 Pcs. | 45 = Yellow/ Green |
| HSTTRA = Semi-Rigid Adhesive Lined | 75 = 3/4" (19.1mm) | | CQ = 125 Pcs. | |
| HSTTA = Thin Wall Adhesive Lined | 100 = 1" (25.4mm) | | T = 200 Pcs. | |
| HSTT4A = 4:1 Thin Wall Adhesive Lined | 150 = 1 1/2" (38.1mm) | | TL = 250 Pcs. | |
| HST = Thick Wall Adhesive Lined | 200 = 2" (50.8mm) | | Y = 6" Pcs. | |
| HSEC = Heat Shrink End Caps Adhesive Lined | 300 = 3" (76.2mm) | | | |
| HSECFR = Heat Shrink End Caps Flame Retardant Adhesive Lined | 400 = 4" (101.6mm) | | | |
| | 0.4 = .40" (10.2mm) | | Reels (If No Tube Length Specified) | |
| | 0.5 = .47" (11.9mm) | | Q = 25' (7.6m) | |
| | 0.8 = .80" (20.3mm) | | L = 50' (15.2m) | |
| | 1.0 = 1.0" (25.4mm) | | C = 100' (30.5m) | |
| | 1.1 = 1.1" (27.9mm) | | T = 200' (61.0m) | |
| | 1.5 = 1.5" (38.1mm) | | D = 500' (152.4m) | |
| | 2.0 = 2.0" (50.8mm) | | M = 1000' (304.8m) | |
| | 3.0 = 3.0" (76.2mm) | | | |
| | 4.0 = 4.0" (101.6mm) | | | |

For Standard Packages containing 6" (152.4mm) lengths, refer to individual pages for complete part number offering.

Note: The above information is to be used as a guide. For specific part number offerings review individual pages for verification.

▲KYNAR is a registered trademark of Atofina Chemicals, Inc.

‡TFE is Polytetrafluoroethylene material.

A.
System
Overview

B1.
Cable Ties

B2.
Cable
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B3.
Stainless
Steel Ties

C1.
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Duct

C2.
Surface
Raceway

C3.
Abrasion
Protection

C4.
Cable
Management

D1.
Terminals

D2.
Power
Connectors

D3.
Grounding
Connectors

E1.
Labeling
Systems

E2.
Labels

E3.
Pre-Printed
& Write-On
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Permanent
Identification

E5.
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Tagout
& Safety
Solutions

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Recommended Tubing Size for Common Wire Types Based on Location For Insulated Wire, Non-Insulated Wire, and Insulated Wire with Copper Connectors

Instructions for Tube Selection:

1) Determine location type.

LOCATION:

DRY: A location not normally subject to dampness or wetness. A location classified as dry may be temporarily subject to dampness or wetness, as in the case of a building under construction.

DAMP: Partially protected locations under canopies, marquees, roofed open porches and like locations, and interior locations subject to moderate degrees of moisture, such as some basements, barns, and cold-storage warehouses.

WET: Installations underground or in concrete slabs or masonry in direct contact with the earth, and locations subject to saturation with water or other liquids, such as vehicle washing areas, and locations exposed to weather and unprotected.

- 2) Match wire size to location type under required application – insulated wire, non-insulated wire, or insulated wire with copper connectors.
- 3) Read corresponding part number.
- 4) Part numbers with “-Y” are packages containing 6 inch pieces. Part numbers with “-48” are 48 inch pieces.
- 5) Part numbers shown below are for black heat shrink.

| Wire Size | Insulated Wire with Copper Connector | | | Uninsulated Wire | | |
|-----------|--------------------------------------|--------------|--------------|------------------|--------------|--------------|
| | Dry-Shrink™ | Damp-Shrink™ | Wet-Shrink™ | Dry-Shrink™ | Damp-Shrink™ | Wet-Shrink™ |
| 24 | HSTT09-Y | HSTTA19-Y | — | — | — | — |
| 22 | HSTT09-Y | HSTTA19-Y | — | HSTT05-Y | — | — |
| 20 | HSTT12-Y | HSTTA19-Y | — | HSTT05-Y | — | — |
| 18 | HSTT12-Y | HSTTA19-Y | — | HSTT06-Y | — | — |
| 16 | HSTT19-Y | HSTTA25-Y | — | HSTT09-Y | — | — |
| 14 | HSTT19-Y | HSTTA25-Y | — | HSTT09-Y | HSTTA19-Y | — |
| 12 | HSTT25-Y | HSTTA38-Y | — | HSTT012-Y | HSTTA19-Y | — |
| 10 | HSTT25-Y | HSTTA38-Y | HST0.4-48-5Y | HSTT19-Y | HSTTA25-Y | — |
| 8 | HSTT38-Y | HSTTA50-Y | HST0.4-48-5Y | HSTT19-Y | HSTTA25-Y | — |
| 6 | HSTT50-Y | HSTTA50-Y | HST0.8-48-5Y | HSTT25-Y | HSTTA38-Y | HST0.4-48-5Y |
| 4 | HSTT50-Y | HSTTA75-Y | HST0.8-48-5Y | HSTT38-Y | HSTTA50-Y | HST0.4-48-5Y |
| 3 | HSTT50-Y | HSTTA75-Y | HST0.8-48-5Y | HSTT38-Y | HSTTA50-Y | HST0.4-48-5Y |
| 2 | HSTT75-Y | HSTTA100-Y | HST1.1-48-5Y | HSTT38-Y | HSTTA50-Y | HST0.8-48-5Y |
| 1 | HSTT75-Y | HSTTA100-Y | HST1.1-48-5Y | HSTT50-Y | HSTTA75-Y | HST0.8-48-5Y |
| 1/0 | HSTT75-Y | HSTTA100-Y | HST1.1-48-5Y | HSTT50-Y | HSTTA75-Y | HST0.8-48-5Y |
| 2/0 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5Y | HSTT50-Y | HSTTA100-Y | HST0.8-48-5Y |
| 3/0 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5Y | HSTT75-Y | HSTTA100-Y | HST1.1-48-5Y |
| 4/0 | HSTT100-Y | HSTTA150-Y | HST1.5-48-5Y | HSTT75-Y | HSTTA100-Y | HST1.1-48-5Y |
| 250 | HSTT100-Y | HSTTA150-Y | HST2.0-48-2Y | HSTT100-Y | HSTTA100-Y | HST1.1-48-5Y |
| 300 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y | HSTT100-Y | HSTTA150-Y | HST1.5-48-5Y |
| 350 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y | HSTT100-Y | HSTTA150-Y | HST1.5-48-5Y |
| 400 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y | HSTT100-Y | HSTTA150-Y | HST1.5-48-5Y |
| 500 | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y | HSTT100-Y | HSTTA150-Y | HST1.5-48-5Y |
| 600 | HSTT200-48-5 | HSTTA150-Y | HST2.0-48-2Y | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y |
| 700 | HSTT200-48-5 | HSTTA150-Y | HST2.0-48-2Y | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y |
| 750 | HSTT200-48-5 | HSTTA150-Y | HST3.0-48-2Y | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y |
| 800 | HSTT200-48-5 | HSTTA150-Y | HST3.0-48-2Y | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y |
| 900 | HSTT200-48-5 | — | HST3.0-48-2Y | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y |
| 1000 | HSTT200-48-5 | — | HST3.0-48-2Y | HSTT150-48-5 | HSTTA150-Y | HST2.0-48-2Y |
| 1250 | HSTT200-48-2 | — | HST3.0-48-2Y | HSTT200-48-5 | HSTTA150-Y | HST2.0-48-2Y |
| 1500 | HSTT300-48-2 | — | HST3.0-48-2Y | HSTT200-48-5 | — | HST2.0-48-2Y |
| 1750 | HSTT300-48-2 | — | HST3.0-48-2Y | HSTT200-48-5 | — | HST2.0-48-2Y |
| 2000 | HSTT300-48-2 | — | HST3.0-48-2Y | HSTT200-48-5 | — | HST2.0-48-2Y |

Sizing information is based on the following wire types: MTW, THHN, THWN, TFN, THW, TW, TF, RHW, RH, RHH and UL 1015.

THHN is the most common wire type.

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A. System Overview

Dry-Shrink™, Damp-Shrink™, and Wet-Shrink™ Heat Shrink Tubing

B1. Cable Ties

Technical Data

General Information

| Product Type | Typical Applications | Specific Gravity | Flammability | Water Absorption | Dielectric Strength |
|---------------|--|--|---|---------------------------|---|
| HSTT | Economical and easy way to insulate, protect, harness and identify electrical and electronic components in a wide variety of applications. Black is U.V. Resistant. Suitable for use in dry locations. | Class 1, 1.35 Class 2, 1.0 ASTM D792 | Class 1 Self Extinguishing ASTM D2671 Procedure B | .5% MAX. ASTM D570 | 500 V/MIL. (19.7 Kv/mm) min. ASTM D2671 |
| HSTTV | Use where UL recognition with VW-1 rating is required. Use where the wire component cannot tolerate higher shrink temperatures, reduces application time to insulate, protect, identify, etc. Black is U.V. Resistant. Suitable for use in dry locations. | 1.50 ASTM D792 | VW-1 per UL 224 | .5% MAX. ASTM D570 | 500 V/MIL. (19.7 Kv/mm) min. ASTM D2671 |
| HSTTP | Ripple free conformance around sharp bends as in appliance handles and bus bars. Good cut through and solder-iron resistance. Black is U.V. Resistant. Suitable for use in dry locations. | 1.35 MAX. | VW-1 per UL 224 | 1.0% MAX. ASTM D570 | 400 V/MIL. (15.8 Kv/mm) min. ASTM D2671 |
| HSTTPN | Crystal clear product that is excellent for protecting wire and cable markers and continuous inspection of splices. Suitable for use in dry locations. | N/A | VW-1 per UL 224 | 1.0% MAX. ASTM D570 | 400 V/MIL. (15.8 Kv/mm) min. ASTM D2671 |
| HSTTN | Insulation and abrasion resistance, extensive military uses on vehicles and ship-board. Excellent chemical resistance especially to fuels and oils. Black is U.V. Resistant. Suitable for use in dry locations. | 1.30 ASTM D792 | Self Extinguishing ASTM D876 | 1.0% MAX. ASTM D570 | 300 V/MIL. (11.8 Kv/mm) min. ASTM D2671 |
| HSTTT | High insulation and abrasion resistance. High temperature, strain relief, resists corrosive atmosphere, self lubrication and non-wetting. Can be used with fiber optics and as a strain relief for high density connectors. U.V. Resistant. Suitable for use in dry locations. | 2.2 MAX. ASTM D792 | VW-1 per UL 224 | .01% MAX. ASTM D570 | 800 V/MIL. (31.5 Kv/mm) min. ASTM D2671 |
| HSTTK | Protection and strain relief for wires or connectors in a high temperature or solvent rich environment. Insulation of heater leads. Suitable for use in dry locations. | 1.8 MAX. ASTM D792 | VW-1 per UL 224 | .5% MAX. ASTM D570 | Size to (12.7mm) 800 V/MIL. (31.5 Kv/mm) min Over (12.7mm) 600 V/MIL. (23.6 Kv/mm) min ASTM D2671 |
| HSTTVA | Seals and protects components from moisture and corrosion. Use where a flexible tubing is needed. Suitable for damp locations. | N/A | Self Extinguishing ASTM D2671 Procedure B | .5% MAX. ASTM D570 | 500 V/MIL. (19.7 Kv/mm) min. ASTM D2671 |
| HSTTA | Environmentally seals and protects components. The 3:1 shrink ratio is a benefit when working with connector to cable transitions. Suitable for damp locations. | N/A | Self Extinguishing ASTM D2671 Procedure B | 1.0% MAX. ASTM D570 | 300 V/MIL. (11.8 Kv/mm) min. ASTM D2671 |
| HSTT4A | Seals and protects components from moisture and corrosion. The 4:1 shrink ratio is a benefit when working with large transitions. Use where a flexible tubing is needed. Suitable for damp locations. | N/A | VW-1 per UL 224 | 1.0% MAX. ASTM D570 | 500 V/MIL. (19.7 Kv/mm) min. ASTM D2671 |
| HSTTRA | Environmentally seals and protects components forming a rugged and heavy duty covering. The 2.5:1 shrink ratio is a benefit when working with connector to cable transitions. Suitable for damp locations. | N/A | N/A | .5% MAX. ASTM D570 | 500 V/MIL. (19.7 Kv/mm) min. ASTM D2671 |
| HST | Seals and protects electrical connections and splices above or below ground, 3:1 shrink ratio. Suitable for outdoor and wet locations. | 1.2 MAX. | VW-1 per UL 224 | .5% MAX. ASTM D570 | 200 V/MIL. (7.9 Kv/mm) min. ASTM D2671 |

E4. Permanent Identification

E5. Lockout/Tagout & Safety Solutions

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Order number of pieces required, in multiples of Standard Package Quantity.