

Amphenol[®]



Amphe-HST Heat Shrinkable Tubing Brochure

Company Introduction

Company Overview

Manufacturing connectors since 1932, we take pride that the Amphenol Industrial Products Group is the undisputed leader in interconnect systems for harsh environment applications. Such applications require a high degree of engineering sophistication and precision manufacturing capability. Innovations like our RADSOK® contact technology can provide roughly 50% more current through the same size pin. Connectors utilizing this RADSOK® technology will outperform similar products in the market hands down.

The Amphenol Industrial Products Group (AIPG), a division of the Amphenol Corporation, is the leading manufacturer of cylindrical connectors in the world. Amphenol Industrial's product lines consist of rectangular, standard miniature, fiber optic, EMI/EMP filter, and a variety of special application connectors.

The Sidney, NY facility, nestled at the foothills of the Catskill Mountains, is over 307,000 square feet. This complex houses over 1000+ employees, incorporating state-of-the-art manufacturing technologies. The facility is both ISO9001 certified and qualified to MIL-STD-790 requirements.

Amphe-HST Series

- Thin Wall Tubing
- High Temperature Products
- Dual Wall Tubing
- Medium & Heavy Wall Tubing
- Medium Voltage Tubing & Tape
- Molded Parts
- Application Equipment
- Marker Sleeves



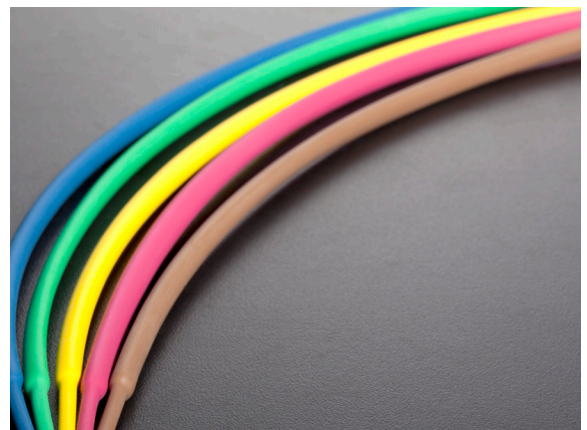
Amphenol Industrial - Sidney, NY USA

Amphe-HST

As a world technology leader in the manufacture and design of interconnects and cable assemblies, Amphenol Industrial Operations (AIO) realizes there is a need for quality heat shrinkable materials.

Our Amphe-HST (HST - Heat Shrink Technologies) is a heat shrink tubing series that is ideal, but not limited to, the markets of energy, rail mass transit, heavy equipment, hybrid/electrical vehicles, server/data center power, mining and other major industries. Made from a cross-linked polyolefin material, most of our shrinkable products have been tested and comply with UL/CSA, IEC, ASTM, MIL, ISO specifications. Amphe-HST provides effective insulation and protection to your functional parts, components and systems at an affordable cost.

Along with our heat shrink tubing AIO can also provide molded parts, marker sleeves and application equipment such as heat guns, conveyor ovens and more.

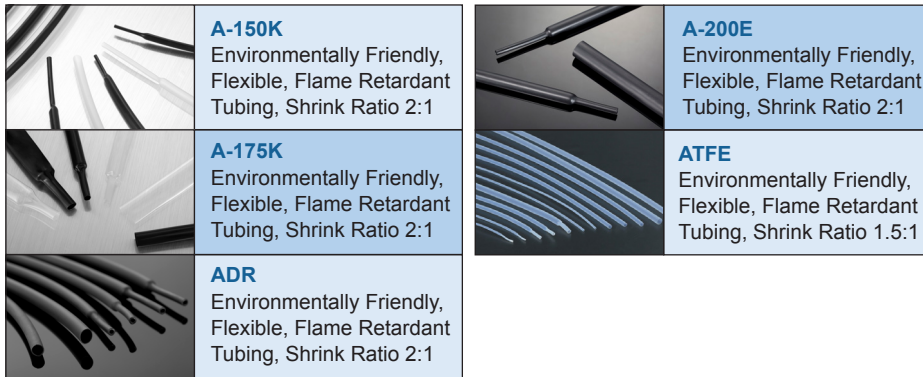


Thin Wall Tubing

| | | | | | |
|---|---|---|---|---|---|
|  | A-2(Z) Flexible, Flame Retardant, High Performance Tubing |  | A-2F(3X) Highly Flexible, Flame Retardant Tubing |  | A-1 General Purpose, non flame retardant Tubing |
|  | A-2(3X) Flexible, Flame Retardant Tubing |  | A-2F(4X) Highly Flexible, Flame Retardant Tubing |  | ABG General Purpose, non flame retardant Tubing |
|  | A-2(HF) Halogen Free, Flexible Flame Retardant Tubing |  | A-2F(YG) Yellow & Green Striped, Flexible, Flame Retardant Tubing | | |
|  | A-2F Flexible, Highly Flame Retardant Tubing |  | A-2F(YG)(3X) Yellow & Green Striped, Flexible, Flame Retardant Tubing | | |




| PRODUCT | Cross Linked Polyolefin | Operating Temp. (°C) | Min. Shrink Temp. (°C) | Min. Full Recovery Temp. (°C) | Voltage | Shrink Ratio | Size (mm) | Inner Diameter As Supplied (mm) | Inner Diameter After Fully Recovered (mm) (Max.) | Wall Thickness After Recovered (mm) (Min.) | Standard Color(s) (Special Colors are Available) | Flammability | Flexibility | Resistant to Common Fluids & Solvents | Halogen Free/Low Smoke Emissions | UL | CSA | RoHS | UV Resistant | SAE-AMS-DTL-23053 |
|--------------|-------------------------|----------------------|------------------------|-------------------------------|---------|--------------|--------------|---------------------------------|--|--|---|--------------|-------------|---------------------------------------|----------------------------------|----|-----|------|--------------|-------------------|
| A-2(Z) | • | -55°C to +125°C | 70°C | 100°C | 600V | 2:1 | 1.0 to 150 | 1.0 to 150 | 0.5 to 75 | 0.32 to 1.3 | Black, Red, Blue, Yellow, Green, White, Grey, Purple, Brown | VW-1 | Normal | | | • | • | • | | |
| A-2(3X) | • | -55°C to +125°C | 70°C | 100°C | 600V | 3:1 | 1.5 to 50 | 1.5 to 50 | 0.5 to 17 | 0.45 to 1.29 | Black, Red, Blue, Yellow, | VW-1 | High | | | • | • | • | | |
| A-2(HF) | • | -55°C to +125°C | 70°C | 100°C | 600V | 2:1 | 3.0 to 150 | 3.0 to 150 | 1.5 to 75 | 0.44 to 1.3 | Black, White | VW-1 | Normal | | • | • | • | | | |
| A-2F | • | -55°C to +135°C | 70°C | 100°C | 600V | 2:1 | 1.2 to 125 | 1.2 to 125 | 0.6 to 62.5 | 0.4 to 1.4 | Black, Red, Blue, Yellow, Green, White, Grey, Clear, Brown | VW-1 | Normal | • | | • | • | • | | /5 |
| A-2F(3X) | • | -55°C to +135°C | 70°C | 100°C | 600V | 3:1 | 3.0 to 39 | 3.0 to 39 | 1.0 to 13 | 0.55 to 1.25 | Black, Red, Blue, Yellow | VW-1 | Normal | • | | • | • | • | | /5 |
| A-2F(4X) | • | -55°C to +135°C | 70°C | 100°C | 600V | 4:1 | 19.1 to 115 | 19.1 to 115 | 4.5 to 36.8 | 1.65 to 1.9 | Black | VW-1 | High | • | | • | • | • | • | /5 |
| A-2F(YG) | • | -55°C to +135°C | 70°C | 100°C | 600V | 2:1 | 2.4 to 101.6 | 2.4 to 101.6 | 1.2 to 50.8 | 0.42 to 1.3 | Yellow & Green Striped | VW-1 | Normal | | | • | | • | | /5 |
| A-2F(YG)(3X) | • | -55°C to +135°C | 70°C | 100°C | 600V | 3:1 | 2.4 to 39.1 | 2.4 to 39.1 | 0.8 to 13 | 0.51 to 1.2 | Yellow & Green Striped | VW-1 | Normal | | | | | • | | /5 |
| A-1 | • | -55°C to +105°C | 70°C | 95°C | 600V | 2:1 | 1.0 to 100 | 1.0 to 100 | 0.5 to 50 | 0.32 to 1.3 | Clear & Black | Flammable | Normal | | | | | • | | |
| ABG | • | -55°C to +125°C | 80°C | 110°C | N/A | 2:1 | 12.7 to 76 | 12.7 to 76 | 6.4 to 38.1 | 0.62 to 1.20 | Yellow | Flammable | Normal | | | | | • | | |

High Temperature Products



| PRODUCT | Cross Linked Polyolefin | Operating Temp. (°C) | Min. Full Recovery Temp. (°C) | Voltage | Shrink Ratio | Size (mm) | Inner Diameter as Supplied (mm) | Inner Diameter After Fully Recovered (mm) (Max.) | Wall Thickness After Recovered (mm) (Min.) | Standard Color(s) <small>(Special Colors are Available)</small> | Flammability | Flexibility | Resistant to Common Fluids & Solvents | Halogen Free/Low Smoke Emissions | UL | CSA | RoHS | SAE-AMS-DTL-23053 |
|---------|-------------------------|----------------------|-------------------------------|---------|--------------|-------------------|---------------------------------|--|--|--|----------------------------------|-------------|---------------------------------------|----------------------------------|----|-----|------|-------------------|
| A-150K | • | 55°C to +150°C | 150°C | 600V | 2:1 | 1.2 to 19.1 | 1.2 to 19.1 | 0.6 to 9.5 | 0.28 to 0.45 | Clear, Black | VW-1 | Normal | | • | • | | • | /18 |
| A-175K | • | -55°C to +175°C | 175°C | 600V | 2:1 | 1.2 to 19.1 | 1.2 to 19.1 | 0.6 to 9.5 | 0.20 to 0.36 | Clear, Black | VW-1 | Semi-Rigid | | • | • | | • | /18 |
| ADR | • | -65°C to +150°C | 175°C | 600V | 2:1 | 3.2 to 19.1 | 3.2 to 19.1 | 1.6 to 9.5 | 0.73 to 1.37 | Black | Self - Extinguishing, 15 seconds | Normal | • | | | | • | /16 |
| A-200E | • | -55°C to +200°C | 175°C | 600V | 2:1 | 3.2 to 19.1 | 3.2 to 19.1 | 1.6 to 9.5 | 0.76 to 1.38 | Black | Self - Extinguishing, 15 seconds | Normal | | • | | | • | /13 |
| ATFE | • | -65°C to +200°C | 350°C | 600V | 1.5:1 | AWG 30T to AWG 0T | 0.86 to 11.95 | 0.34 to 8.17 | 0.21 to 0.37 | Clear | Self - Extinguishing | Normal | | | | | • | /12 |



Dual Wall Tubing

| | | | |
|---|---|---|---|
|  | A-5(3X) Adhesive Lined, Flexible Tubing, 3:1 Shrink ratio |  | A-5(4X)-F Adhesive Lined, Flame Retardant, High Flexible Tubing, 4:1 Shrink ratio |
|  | A-5(4X) Adhesive Lined, Flexible Tubing, 4:1 Shrink ratio |  | ABK Semi-Rigid, Adhesive Line Tubing |
|  | A-5(3X)-F Adhesive Lined, Flame Retardant, High Flexible Tubing, 3:1 Shrink ratio |  | A-5(2000) Adhesive Line Tubing for Automotive Pipe Protection |

| PRODUCT | Cross Linked Adhesive Lined Polyolefin | Operating Temp. (°C) | Min. Shrink Temp. (°C) | Min. Full Recovery Temp. (°C) | Voltage | Shrink Ratio | Size (mm) | Inner Diameter as Supplied (mm) | Inner Diameter After Fully Recovered (mm) (Max.) | Wall Thickness After Recovered (mm) (Min.) | Standard Color(s) (Special Colors are Available) | Flammability | Flexibility | Waterproof | Halogen Free/Low Smoke Emissions | UL | CSA | RoHS | UV Resistant | SAE-AMS-DTL-23053 |
|--------------|--|----------------------|------------------------|-------------------------------|---------|--------------|-------------|---------------------------------|--|--|---|----------------------------------|-------------|------------|----------------------------------|------|------|------|--------------|-------------------|
| A-5(3X) | • | -55°C to +125°C | 80°C | 110°C | 600V | 3:1 | 3.0 to 50.0 | 3.0 to 50.0 | 1.0 to 19.0 | 0.95 to 2.4 | Black, Yellow, Blue, Red | VW-1 | Normal | • | | • B* | • B* | • B* | • B* | /4 |
| A-5(4X) | • | -55°C to +125°C | 80°C | 110°C | 600V | 4:1 | 4.0 to 52.0 | 4.0 to 52.0 | 1.0 to 13.0 | 1.15 to 2.9 | Black, Yellow, Blue, Red | VW-1 | Normal | • | | • B* | • B* | • B* | • B* | /4 |
| A-5(3X)-F | • | -55°C to +125°C | 70°C | 110°C | 600V | 3:1 | 3.0 to 40.0 | 3.0 to 40.0 | 1.0 to 13.0 | 1.0 to 2.4 | Black, Yellow, Blue, Red | VW-1 | Normal | • | | • B* | • B* | • B* | • | /4 |
| A-5(4X)-F F* | • | -55°C to +125°C | 70°C | 110°C | 600V | 4:1 | 4.0 to 52.0 | 4.0 to 52.0 | 1.0 to 13.0 | 1.1 to 2.4 | Black, Yellow, Blue, Red | VW-1 | Normal | • | | • | • | • | • | /4 |
| ABK | • | -55°C to +125°C | 110°C | 135°C | 600V | 4:1 | 6.0 to 18.0 | 6.0 to 18.0 | 1.27 to 4.45 | 1.30 to 2.41 | Black, Clear | Self - Extinguishing, 30 seconds | Semi-Rigid | | | | | • | | |
| A-5(2000) | • | -55°C to +105°C | 100°C | 120°C | 600V | 1.5:1 | 6.0 to 15.0 | 6.0 to 15.0 | 4.5 to 9.5 | 1.15 to 1.45 | Black | Flammable | Normal | • | • | | | • | | |

B* = Black Only

Medium & Heavy Wall Tubing

| | | | | | |
|---|--|---|--|---|---|
|  | ARA2 Adhesive Lined, Flexible Tubing, 3:1 Shrink ratio |  | ARTM Medium Wall Tubing with Hot Melting Adhesive |  | ARA-6X Heavy Wall Tubing with Very High Shrink Ratio |
|  | ARTM Medium Wall Tubing without Hot Melting Adhesive |  | ARTH Heavy Wall Tubing with Hot Melting Adhesive |  | ARS Medium Wall Tubing with Black Sealant Mastic Coated |
|  | ARA3 Adhesive Lined, Flame Retardant, High Flexible Tubing, 3:1 Shrink ratio |  | AFRA2 Adhesive Lined Tubing for Automotive Pipe Protection | | |
|  | AR3 Heavy Wall Tubing without Hot Melting Adhesive |  | AFRA3 Flame Retardant, Heavy Wall Tubing with Hot Melting Adhesive | | |

| PRODUCT | Cross Linked Polyolefin | Cross Linked Adhesive Lined Polyolefin | Cross Linked Adhesive Coated Polyolefin | Cross-Linked Polyolefin Mastic Coated | Operating Temp. (°C) | Min. Full Recovery Temp. (°C) | Shrink Ratio | Size (mm) | Inner Diameter as Supplied (mm) | Inner Diameter After Fully Recovered (mm) (Max.) | Wall Thickness After Recovered (mm) (Min.) | Standard Color(s) <small>(Special Colors are Available)</small> | Flammability | Halogen Free/Low Smoke Emissions | RoHS | UV Resistant |
|---------|-------------------------|--|---|---------------------------------------|----------------------|-------------------------------|--------------|-------------|---------------------------------|--|--|--|--------------------------------|----------------------------------|------|--------------|
| ARA2 | | • | | | -55°C to +110°C | 120°C | 3:1 | 22 to 380 | 22 to 380 | 6 to 150 | 2.4 to 4.3 | Black | | • | • | • |
| AR2 | • | | | | -55°C to +110°C | 120°C | 3:1 | 8 to 410 | 8 to 410 | 2 to 150 | 1.8 to 4.3 | Black | | • | • | • |
| ARA3 | | • | | | -55°C to +110°C | 120°C | 3:1 | 22 to 385 | 22 to 385 | 6 to 110 | 2.7 to 4.8 | Black | | • | • | • |
| AR3 | • | | | | -55°C to +110°C | 120°C | 3:1 | 9 to 385 | 9 to 385 | 3 to 110 | 2.0 to 4.8 | Black | | • | • | • |
| ARTM | | | • | | -55°C to +110°C | 120°C | 3:1 | 8 to 160 | 8 to 160 | 2 to 50 | 1.7 to 3.4 | Black | | • | • | • |
| ARTH | | | • | | -55°C to +110°C | 120°C | 3:1 | 9 to 115 | 9 to 115 | 3 to 34 | 1.9 to 4.0 | Black | | • | • | • |
| AFRA2 | | • | | | -55°C to +110°C | 120°C | 3:1 | 22 to 200 | 22 to 200 | 6 to 65 | 2.4 to 3.3 | Black | Self-Extinguishing, 60 seconds | | • | • |
| AFRA3 | | • | | | -55°C to +110°C | 120°C | 3:1 | 22 to 130 | 22 to 130 | 6 to 36 | 2.7 to 4.2 | Black | Self-Extinguishing, 60 seconds | | • | • |
| ARA-6X | | • | | | -55°C to +110°C | 120°C | 6:1 | 19 to 119.4 | 19 to 119.4 | 3.2 to 22.9 | 3.2 to 4.7 | Black | | • | • | • |
| ARS | | | | • | -35°C to +110°C | 120°C | 3:1 | 33 to 350 | 33 to 350 | 8 to 100 | 2.6 to 4.3 | Black | | • | • | • |

Medium Voltage Tubing & Tape

| | | | | | |
|---|---|---|---|---|--|
|  | AAT/AATA Anti Tracking Insulation Tubing |  | ASCT Semi-Conductive Tubing |  | ADWT Semi-Conductive/ Insulation Double Layer Tubing |
|  | ABTM/ABTH Medium/Heavy Wall Halogen Free Busbar Insulation Tubing |  | ASC-100 Stress Control Tubing |  | AGT High Insulation Tubing |
|  | ABIT Busbar Insulation Tape |  | ASC-360 Stress Control Tubing |  | AOT Oil Resistant Tubing |

| PRODUCT | Tubing | Tape | Cross Linked Polyolefin | Modified Polyolefin | Voltage Rating | Operating Temp. (°C) | Min. Full Recovery Temp. (°C) | Size (mm) | Inner Diameter as Supplied (mm) | Inner Diameter After Fully Recovered (mm) (Max.) | Wall Thickness After Recovered (mm) (Min.) | Standard Color(s) (Special Colors are Available) | Flammability | Flexibility | Halogen Free/Low Smoke Emissions | RoHS | UV Resistant |
|---------|--------|------|-------------------------|---------------------|----------------|----------------------|-------------------------------|-----------|---------------------------------|--|--|---|--|---------------|----------------------------------|------|--------------|
| | AAT | • | | | | Up to 36kV | -45°C to +105°C | 110°C | 19 to 100 | 19 to 100 | 6 to 49 | 2.5 to 3 | Red | ISO 4589 ≥ 25 | Semi | • | • |
| AATA | • | | | | Up to 36kV | -45°C to +105°C | 110°C | 35 to 130 | 35 to 130 | 12 to 50 | 2.9 to 3.9 | Red | ISO 4589 ≥ 25 | Semi | • | • | • |
| ABTM | • | | | • | Up to 36kV | -45°C to +105°C | 120°C | 15 to 235 | 15 to 235 | 6 to 75 | 2.0 to 3.8 | Red | ISO 4589 ≥ 25 | Normal | • | • | • |
| ABTH | • | | | • | Up to 36kV | -45°C to +105°C | 120°C | 25 to 180 | 25 to 180 | 10 to 58 | 3.9 to 4.1 | Red | ISO 4589 ≥ 25 | Normal | • | • | • |
| ABIT | | • | • | | Up to 36kV | -55°C to +105°C | 100°C | 25 to 100 | 25 to 100 | | 1.1 | Red | ASTM D 2671 Self-Extinguishing, 60 seconds | Normal | • | • | • |
| ASCT | • | | • | | Up to 36kV | -55°C to +110°C | 120°C | 33 to 120 | 33 to 120 | 8 to 34 | 2.4 to 3.2 | Black | | Normal | | • | • |
| ASC-100 | • | | | • | Up to 24kV | -45°C to +105°C | 130°C | 30 to 75 | 30 to 75 | 12 to 30 | 2.2 to 2.4 | Black | | Normal | | • | • |
| ASC-360 | • | | | • | Up to 36kV | -45°C to +105°C | 130°C | 35 to 75 | 35 to 75 | 15 to 30 | 2.3 to 2.4 | Black | | Normal | | • | • |
| ADWT | • | | • | | Up to 36kV | -45°C to +105°C | 130°C | 36 to 100 | 36 to 100 | 12 to 38 | 5.4 to 6.0 | Black | | Normal | • | • | • |
| AGT | • | | • | | Up to 36kV | -40°C to +110°C | 110°C | 35 to 120 | 35 to 120 | 12 to 45 | 3.2 to 5.0 | Red | | Normal | • | • | • |
| AOT | • | | • | | Up to 36kV | -40°C to +110°C | 130°C | 19 to 85 | 19 to 85 | 6 to 35 | 2.0 to 2.9 | Clear | | Normal | • | • | • |

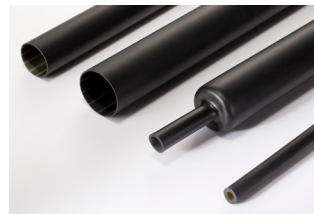
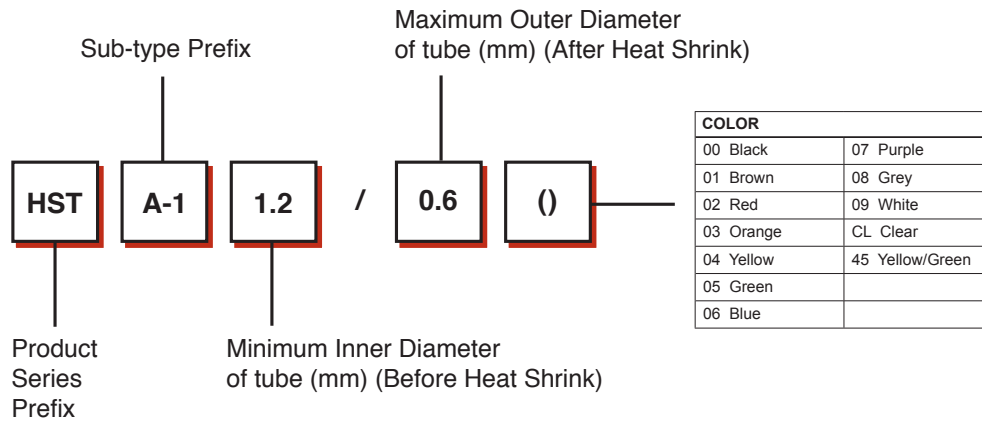
Molded Parts

Our Amphenol-HST line includes reliable molded parts, which are shot from a crosslinked polyolefin material, are UV and weather resistant, available in black or red across several different applications. These parts are heat-shrinkable and can be used to provide strain relief and/or mechanical and electrical preservation.

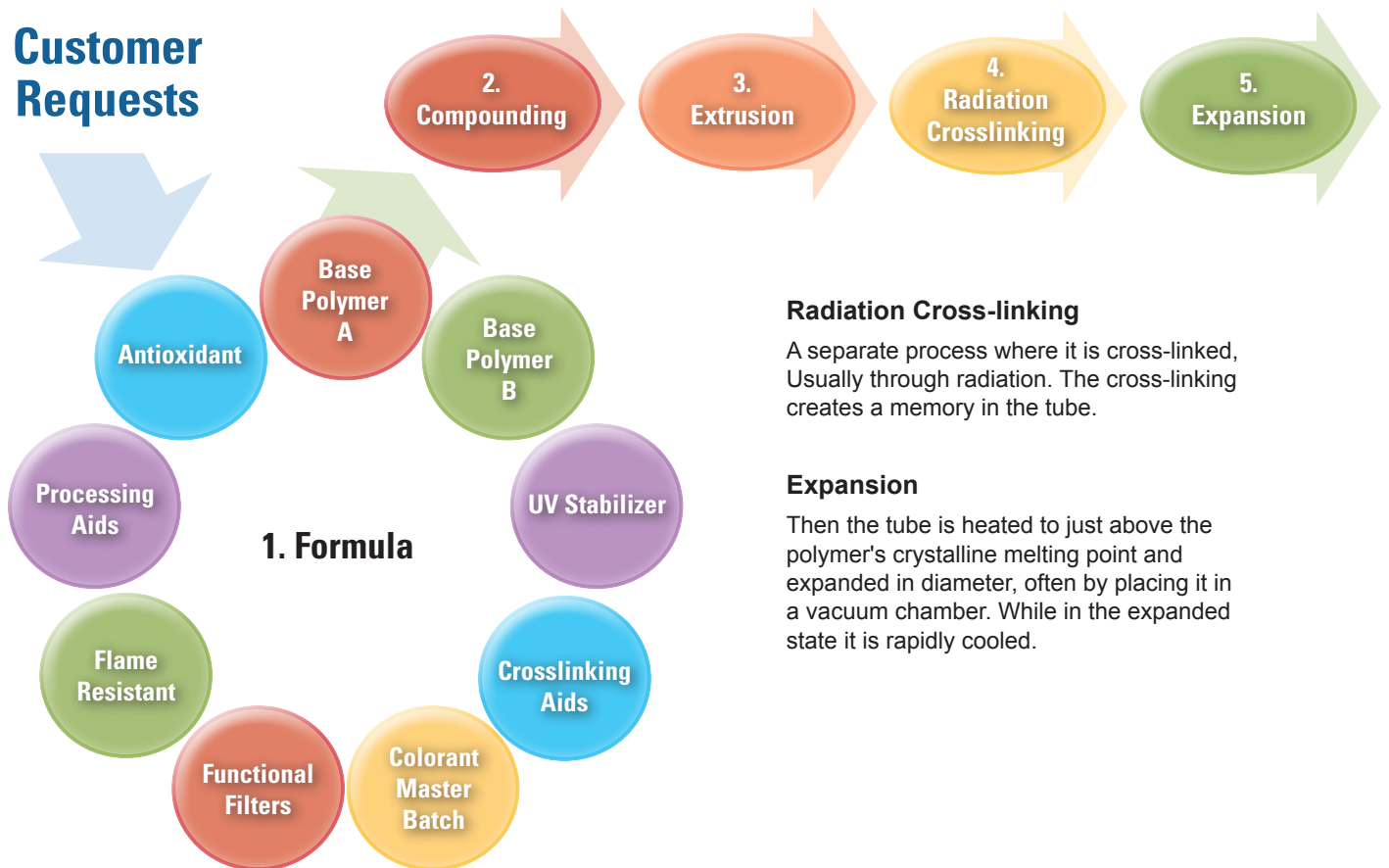
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|---|---|---|--|---|--|
|  | ACB 3 Cores Conductive Cable Breakout |  | AMR Medium Voltage Right/Straight Cable Boot |  | ASEC Cable End Caps with Spiral Adhesive Coating |
|  | ALB Low Voltage Cable Breakout 2 to 5 Cores |  | AMB Medium Voltage 3 Cores Cable Breakout |  | ACEC Cable End Caps with Spiral Adhesive Coating |
|  | ACFT Cable Feed Through |  | AAS Anti-Tracking Rain Shed | | |

| Amphenol P/N | Description | Amphenol P/N | Description |
|-----------------------------------|--|--------------------------------|---|
| ACB | | AMR | |
| HST ACB 60/24 (00) | ACB 3 CORES CONDUCTIVE CABLE BREAKOUT 60MM BK | HST AMR110 (80/36-35/18) (02) | AMR MEDIUM VOLTAGE RIGHT CABLE BOOT 110 RED |
| HST ACB 80/36 (00) | ACB 3 CORES CONDUCTIVE CABLE BREAKOUT 80MM BK | HST AMR120 (80/36-50/18) (02) | AMR MEDIUM VOLTAGE RIGHT CABLE BOOT 120 RED |
| HST ACB 110/48 (00) | ACB 3 CORES CONDUCTIVE CABLE BREAKOUT 110MM BK | HST AMR130 (80/36-50/27) (02) | AMR MEDIUM VOLTAGE RIGHT CABLE BOOT 130 RED |
| HST ACB 125/55 (00) | ACB 3 CORES CONDUCTIVE CABLE BREAKOUT 125MM BK | HST AMR140 (95/38-70/28) (02) | AMR MEDIUM VOLTAGE RIGHT CABLE BOOT 140 RED |
| HST ACB 140/68 (00) | ACB 3 CORES CONDUCTIVE CABLE BREAKOUT 140MM BK | HST AMR150 (145/72-68/34) (02) | AMR MEDIUM VOLTAGE RIGHT CABLE BOOT 150 RED |
| ALB | | HST AMR160 (80/35-34/20) (02) | AMR MEDIUM VOLTAGE STRAIGHT CABLE BOOT 160 RED |
| HST ALB205 22/8 (00) | ALB 2 CORES CABLE BREAKOUT 22MM BK | HST AMR170 (80/35-58/20) (02) | AMR MEDIUM VOLTAGE STRAIGHT CABLE BOOT 170 RED |
| HST ALB208 28/9 (00) | ALB 2 CORES CABLE BREAKOUT 28MM BK | HST AMR180 (140/65-90/33) (02) | AMR MEDIUM VOLTAGE STRAIGHT CABLE BOOT 180 RED |
| HST ALB210 30/12 (00) | ALB 2 CORES CABLE BREAKOUT 30MM BK | AMB | |
| HST ALB215 40/16 (00) | ALB 2 CORES CABLE BREAKOUT 40MM BK | HST AMB 320 60/24 (02) | AMB MEDIUM VOLTAGE 3 CORES CABLE BREAKOUT 60 RED |
| HST ALB220 60/23 (00) | ALB 2 CORES CABLE BREAKOUT 60MM BK | HST AMB 330 80/36 (02) | AMB MEDIUM VOLTAGE 3 CORES CABLE BREAKOUT 80 RED |
| HST ALB220L 60/23 (00) | ALB 2 CORES CABLE BREAKOUT 60LMM BK | HST AMB 340 110/48 (02) | AMB MEDIUM VOLTAGE 3 CORES CABLE BREAKOUT 110 RED |
| HST ALB230 90/60 (00) | ALB 2 CORES CABLE BREAKOUT 90MM BK | HST AMB 350 125/55 (02) | AMB MEDIUM VOLTAGE 3 CORES CABLE BREAKOUT 125 RED |
| HST ALB230 100/42 (00) | ALB 2 CORES CABLE BREAKOUT 100MM BK | HST AMB 360 140/68 (02) | AMB MEDIUM VOLTAGE 3 CORES CABLE BREAKOUT 140 RED |
| HST ALB230L 90/60 (00) | ALB 2 CORES CABLE BREAKOUT 90LMM BK | HST AMB 370 170/77 (02) | AMB MEDIUM VOLTAGE 3 CORES CABLE BREAKOUT 170 RED |
| HST ALB235 110/50 (00) | ALB 2 CORES CABLE BREAKOUT 110MM BK | AAS | |
| HST ALB240 150/90 (00) | ALB 2 CORES CABLE BREAKOUT 150MM BK | HST AAS 110 35/12 (02) | AAS ANTI-TRACKING RAIN SHEDS 110 RED |
| HST ALB240L 150/90 (00) | ALB 2 CORES CABLE BREAKOUT 150LMM BK | HST AAS 120 48/20 (02) | AAS ANTI-TRACKING RAIN SHEDS 120 RED |
| HST ALB310 38/16 (00) | ALB 3 CORES CABLE BREAKOUT 38MM BK | HST AAS 130 60/25 (02) | AAS ANTI-TRACKING RAIN SHEDS 130 RED |
| HST ALB310L 38/16 (00) | ALB 3 CORES CABLE BREAKOUT 38LMM BK | HST AAS 140 60/30 (02) | AAS ANTI-TRACKING RAIN SHEDS 140 RED |
| HST ALB320 60/24 (00) | ALB 3 CORES CABLE BREAKOUT 60MM BK | HST AAS 150 75/30 (02) | AAS ANTI-TRACKING RAIN SHEDS 150 RED |
| HST ALB320L 60/24 (00) | ALB 3 CORES CABLE BREAKOUT 60LMM BK | HST AAS 160 100/35 (02) | AAS ANTI-TRACKING RAIN SHEDS 160 RED |
| HST ALB325 70/28 (00) | ALB 3 CORES CABLE BREAKOUT 70MM BK | HST AAS 170 120/45 (02) | AAS ANTI-TRACKING RAIN SHEDS 170 RED |
| HST ALB325L 70/28 (00) | ALB 3 CORES CABLE BREAKOUT 70LMM BK | ASEC | |
| HST ALB330 80/36 (00) | ALB 3 CORES CABLE BREAKOUT 80MM BK | HST ASEC 105 12/4 (00) | ASEC CABLE END CUP WITH ADHESIVE 105 BK |
| HST ALB330L 80/36 (00) | ALB 3 CORES CABLE BREAKOUT 80LMM BK | HST ASEC 110 14/5 (00) | ASEC CABLE END CUP WITH ADHESIVE 110 BK |
| HST ALB340 110/50 (00) | ALB 3 CORES CABLE BREAKOUT 110MM BK | HST ASEC 115 20/6 (00) | ASEC CABLE END CUP WITH ADHESIVE 115 BK |
| HST ALB350 125/57 (00) | ALB 3 CORES CABLE BREAKOUT 125MM BK | HST ASEC 120 25/8.5 (00) | ASEC CABLE END CUP WITH ADHESIVE 120 BK |
| HST ALB360 140/70 (00) | ALB 3 CORES CABLE BREAKOUT 140MM BK | HST ASEC 130 35/16 (00) | ASEC CABLE END CUP WITH ADHESIVE 130 BK |
| HST ALB370 170/77 (00) | ALB 3 CORES CABLE BREAKOUT 170MM BK | HST ASEC 135 40/15 (00) | ASEC CABLE END CUP WITH ADHESIVE 135 BK |
| HST ALB410 40/15 (00) | ALB 4 CORES CABLE BREAKOUT 40MM BK | HST ASEC 140 55/26 (00) | ASEC CABLE END CUP WITH ADHESIVE 140 BK |
| HST ALB420 55/21 (00) | ALB 4 CORES CABLE BREAKOUT 55MM BK | HST ASEC 150 75/36 (00) | ASEC CABLE END CUP WITH ADHESIVE 150 BK |
| HST ALB425 65/26 (00) | ALB 4 CORES CABLE BREAKOUT 65MM BK | HST ASEC 160 100/52 (00) | ASEC CABLE END CUP WITH ADHESIVE 160 BK |
| HST ALB430 75/26 (00) | ALB 4 CORES CABLE BREAKOUT 75MM BK | HST ASEC 170 120/60 (00) | ASEC CABLE END CUP WITH ADHESIVE 170 BK |
| HST ALB440 80/32 (00) | ALB 4 CORES CABLE BREAKOUT 80MM BK | HST ASEC 180 145/60 (00) | ASEC CABLE END CUP WITH ADHESIVE 180 BK |
| HST ALB445 90/32 (00) | ALB 4 CORES CABLE BREAKOUT 90MM BK | HST ASEC 190 160/82 (00) | ASEC CABLE END CUP WITH ADHESIVE 190 BK |
| HST ALB450 100/45 (00) | ALB 4 CORES CABLE BREAKOUT 100MM BK | HST ASEC 200 200/90 (00) | ASEC CABLE END CUP WITH ADHESIVE 200 BK |
| HST ALB460 125/52 (00) | ALB 4 CORES CABLE BREAKOUT 125MM BK | HST ASEC 110L 14/5 (00) | ASEC CABLE END CUP WITH ADHESIVE 110L BK |
| HST ALB470 160/70 (00) | ALB 4 CORES CABLE BREAKOUT 160MM BK | HST ASEC 130L 40/15 (00) | ASEC CABLE END CUP WITH ADHESIVE 130L BK |
| HST ALB510 40/19 (00) | ALB 4 CORES CABLE BREAKOUT 40MM BK | HST ASEC 140L 55/23 (00) | ASEC CABLE END CUP WITH ADHESIVE 140L BK |
| HST ALB520 55/24 (00) | ALB 4 CORES CABLE BREAKOUT 55MM BK | HST ASEC 145L 62/23 (00) | ASEC CABLE END CUP WITH ADHESIVE 145L BK |
| HST ALB530 80/33 (00) | ALB 4 CORES CABLE BREAKOUT 80MM BK | HST ASEC 150L 75/32 (00) | ASEC CABLE END CUP WITH ADHESIVE 150L BK |
| HST ALB540 100/42 (00) | ALB 4 CORES CABLE BREAKOUT 100MM BK | HST ASEC 150XL 75/36 (00) | ASEC CABLE END CUP WITH ADHESIVE 150XL BK |
| ACFT | | HST ASEC 160L 105/45 (00) | ASEC CABLE END CUP WITH ADHESIVE 160L BK |
| HST ACFT 100 (45/15-15/5) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 100 BK | ACEC | |
| HST ACFT 105 (70/40-20/6) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 105 BK | HST ACEC 120 25/8.5 (00) | ACEC CONDUCTIVE CABLE END CUP WITH ADHESIVE 120 BK |
| HST ACFT 110 (85/42-15/5) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 110 BK | HST ACEC 130 42/15 (00) | ACEC CONDUCTIVE CABLE END CUP WITH ADHESIVE 130 BK |
| HST ACFT 120 (60/30-45/10) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 120 BK | HST ACEC 140 55/23 (00) | ACEC CONDUCTIVE CABLE END CUP WITH ADHESIVE 140 BK |
| HST ACFT 130(100/52-20/8) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 130 BK | HST ACEC 145 62/23 (00) | ACEC CONDUCTIVE CABLE END CUP WITH ADHESIVE 145 BK |
| HST ACFT 130L (100/52-20/8) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 130L BK | HST ACEC 150 75/32 (00) | ACEC CONDUCTIVE CABLE END CUP WITH ADHESIVE 150 BK |
| HST ACFT 130XL (100/50-20/6) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 130XL BK | HST ACEC 150L 75/36 (00) | ACEC CONDUCTIVE CABLE END CUP WITH ADHESIVE 150L BK |
| HST ACFT 135 (150/92-14/5) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 135 BK | HST ACEC 160 105/45 (00) | ACEC CONDUCTIVE CABLE END CUP WITH ADHESIVE 160 BK |
| HST ACFT 140 (160/92-60/20) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 140 BK | | |
| HST ACFT 150(160/92-100/45) (00) | ACFT LOW VOLTAGE SINGLE CORE CABLE BREAKOUT 150 BK | | |

Amphe-HST Part Number Guide



Customer Requests



Radiation Cross-linking

A separate process where it is cross-linked, Usually through radiation. The cross-linking creates a memory in the tube.

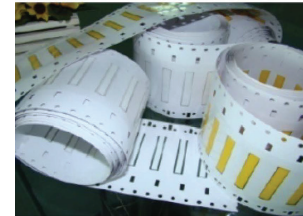
Expansion

Then the tube is heated to just above the polymer's crystalline melting point and expanded in diameter, often by placing it in a vacuum chamber. While in the expanded state it is rapidly cooled.

Amphe-Mark Sleeves

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-------------|---------------------------|-------------|-------------------|-------|--------------|----------------------|
| A-2F-2PF- | 2.4/ | 50 | S1- | 09- | A- | 250 |
| Series | Expanded Diameter (D)(mm) | Length (mm) | Perforated Scores | Color | Carrier Tape | Pack Size Option |
| A-2F-2PF | 2.4 | 50 | Omit | 09 | A | 250: for 250 spool |
| A-2F-3PF | 3.2 | | S1 | 04 | B | 1K: for 1000 Pcs/Box |
| A-2(HF)-2PF | 4.8 | | S2 | 02 | C | |
| A-2(HF)-3PF | 6.4 | | S3 | 06 | | |
| | 9.5 | | | | | |
| | 12.7 | | | | | |
| | 19.1 | | | | | |
| | 25.4 | | | | | |
| | 38.1 | | | | | |
| | 50.8 | | | | | |

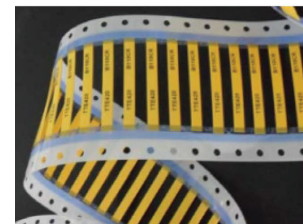
| Standard Color |
|----------------|
| 09 White |
| 04 Yellow |
| 02 Red |
| 06 Blue |



Single Sided Carrier Tape - A



Double Sided Carrier Tape - B



Double Sided Carrier Tape - C

| D (mm) | A-2F-2PF & A-2 (HF)-2PFd(mm) | A-2F-3PF & A-2(HF) 3PFd(mm) |
|--------|------------------------------|-----------------------------|
| 2.4 | 1.2 | 0.8 |
| 3.2 | 1.6 | 1.1 |
| 4.8 | 2.4 | 1.6 |
| 6.4 | 3.2 | 2.1 |
| 9.5 | 4.8 | 3.2 |
| 12.7 | 6.4 | 4.2 |
| 19.1 | 9.5 | 6.4 |
| 25.4 | 12.7 | 8.5 |
| 38.1 | 19.1 | 12.7 |
| 50.8 | 25.4 | 16.9 |



| Code | Definition | # of markers from 1 |
|------|-------------|---------------------|
| Omit | None | 1 |
| S1 | 1 Prescores | 2 |
| S2 | 2 Prescores | 3 |
| S3 | 3 Prescores | 4 |

Application Equipment

- Thermal Transfer Printer
- Hand Operated Heating Tool
- Tabletop Over / Belt Heater

* Consult Amphenol for Suggestions

Cross References

| MARKET | | AMPHE-HST | Raychem | Sumitomo | DSG-Canusa | Alpha | 3M | LG | |
|------------|------------------|----------------------------|------------------|---------------------|----------------------------|-------------|-------------|--------------|---------|
| ELECTRONIC | Thin Wall Tubing | A-2(Z) | VERSAFIT V2 | F2(Z) | DERAY-H | | | GSHS-1625G | |
| | | A-2(3X) | VERSAFIT 3X | F2(3X) | | | | | |
| | | A-2(CB) | VERSAFIT V4 | F3(Z) | DERAY ITW | | | GSHS-1625GT | |
| | | A-2(HF) | ZHTM | SUMITUBE-NH | CZT 200 | | | | |
| | | A-2R | CRN | B8 | CHM 140 | FIT 295 | SR350 | | |
| | | A-2F | RNF-100/VERSAFIT | B2(Z) | CPX 100/CPX 876/ DERA-1 | FIT 221 | FP 301(1&2) | GSHS-1635F | |
| | | A-2F(3X) | RNF-3000 | B2(3X) | CPX 300/DERAY-1 3000 | FIT321V | | GSHS-3635 | |
| | | A-2F(4X) | RP-4800 | | | | | | |
| | | A-2F(Y/G) | DCPT 2:1 | B2(Y/G) | CPX 201 | FIT206 | GYS | GSHS-1635Y/G | |
| | | A-2F(Y/G) 3:1 | DCPT 3:1 | | DERAY IGY | | | | |
| | | A-2(LS) | LSTT | | DERAY LSB | | | | |
| | A-1 | CGPE-105 | C | DERAY HB | | | | | |
| | ABG | | | | | | | | |
| | A-150K | RT375/RNF-150 | K2 | | | | GSHS-1650F | | |
| | A-175K | KYNAR,RW-175 | K | CKN-175/DERAY KY175 | FIT350 | MFP | GSHS-1675 | | |
| | ADR | DR-25 | | DERAY V25 | | | | | |
| | A-200E | Viton | FE3 | DERAY VT200 | FIT650 | Viton | | | |
| | ATFE | TFE | | DERAY PTFE | | | | | |
| | AFSP | SMOUV | FSP-1 | CFSP | | | | | |
| | A-5 (3X) | ATUM | W3B2 | DERAY IAKT | FIT321 | EPS300 | | | |
| | A-5 (4X) | ATUM | W3B2 | DERAY IAKT | FIT321 | EPS300 | | | |
| | A-5(3X)-M | SST | | | | | | | |
| | ABK | ES-2000/RBK | SA2 | CBK | FIT421 | EPS4000,SMS | GSHS-4635WS | | |
| | A-5(2000) | AP-2000 | O2 | | | | GSHS-2690NW | | |
| | A-5(3X)-F | ATUM | W3B2 | DERAY IAKT | FIT321 | EPS300 | | | |
| | A-5(4X)-F | ATUM | W3B2 | DERAY IAKT | FIT321 | EPS300 | | | |
| | ENERGY | Medium & Heavy Wall Tubing | AR2 | | | | | | |
| | | | ARA2 | MWTM | | CFM | | 3M™ MW | LG-PMWT |
| | | | AR3 | | | | | | |
| | | | ARA3 | WCSM/XCSM | | CFW | FIT700 | | LG-PMWT |
| | | | ARA-6X | HRNF | SCH (6X) | CFHR | FIT621 | | |
| | | | AFRA2 | | | FCFM | | | |
| | | | AFRA3 | BSTSFR/SSTFR | | FCFW | | HDT | |
| ARS | | | | | PLA | | | | |
| ASTV | | | TCS2 | | CFTV | | CCT | LG-CATV | |
| ARTH | | | WCSM | | | | | | |
| ARTM | | | MWTM | | | | | | |
| AOT | | OBT | | | | | | | |
| AGT | | | | | | | | | |
| ADWT | | CICM | | HVDW | | | | | |
| ASC-360 | | SCTM | | | | | | | |
| ASC-100 | | JSCR | SCR-100 | CSCR | | | | | |
| ASCT | | | SCR-100 | HSCT | | | | | |
| ABIT | | HVBT | | | | | | | |
| ABTM | | | | | | | | | |
| ABTH | | BBIT | | CBTM | | BBI | | | |
| AAT | | | | | | | | | |
| ABT | | BBIT | | CBTM | | BBI | LG-BBHV | | |
| ACB | | | | CCB-CON | | | | | |
| ALB | | 302K/402W/502S/502K/502R | | CCB | | | LG-BBHV | | |
| ACFT | | | | | | | | | |
| AMR | | | | | | | | | |
| AMB | | | | CCBA | | | | | |
| AAS | | | | | | | | | |
| ASEC | SSC/ESC | | CEC | | SKE | | | | |
| ACEC | | | | | | | | | |



AMPHENOL CORPORATION

Amphenol Industrial

Phone: 888-364-9011

191 Delaware Avenue

Sidney, NY 13838-1395

www.amphenol-industrial.com