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## INTRODUCTION

BURNDY wiring accessories have been designed to supplement and enhance BURNDY connector selection and use. All have been designed and engineered for easy installation

and long life, reflecting over 85 years of experience and resulting contributions to all aspects of the electrical industry.

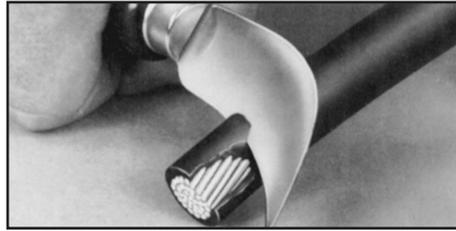
## PENETROX™

### HOW TO INSTALL CONNECTORS:

#### 1. Select the right connector.

F-2

Always use an aluminum connector for aluminum or copper conductor. Choose a connector that's marked for the wire size you're using. Never use a copper connector on aluminum conductor.

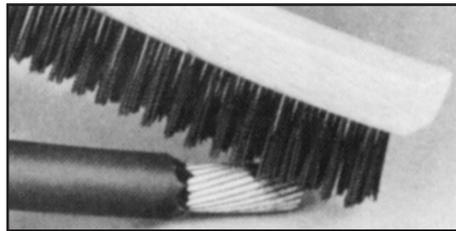


#### 2. Strip carefully.

Remove the insulation without nicking the wire.

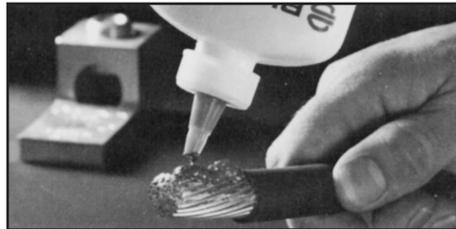
#### 3. Brush thoroughly.

Always wire-brush the stripped portion of the wire. An unplated terminal pad, and the surface to which the terminal will be attached should also be wire-brushed.



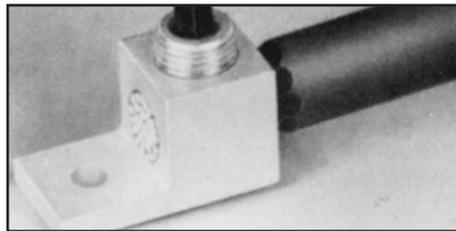
#### 4. Apply PENETROX™

For mechanical connectors, apply PENETROX™ joint compound liberally to the conductor to prevent the formation of surface oxides once the connection is made. Also apply PENETROX™ to any terminal pad.



#### 5. Tighten completely.

For mechanical connectors, use wrench or screwdriver to securely tighten the aluminum connectors, as recommended by BURNDY.



#### 6. Crimp.

For compression connectors, choose the right die and the right tool. Insert the wire completely and make the recommended number of crimps.



**TYPES PENETROX™  
A, A-13, E AND HT**

**OXIDE-INHIBITING  
JOINT COMPOUNDS**

PENETROX™ oxide-inhibiting compounds produce low initial contact resistance, seal out air and moisture, prevent oxidation or corrosion, exhibit superior weathering characteristics, are usable over wide temperature ranges, and provide a high conductivity “gas-tight” joint. All PENETROX™ compounds contain homogeneously suspended metal particles. The suspended metal particles assist in penetrating thin oxide films, act as electrical “bridges” between conductor strands, aid in gripping the conductor, improve electrical conductivity and enhance the integrity of the connection.

The specially formulated PENETROX™ compounds are for use with compression and bolted connectors providing an improved service life for both copper and aluminum connections. Additionally, the nontoxic compounds are an excellent lubricant for threaded applications reducing galling and seizing.



**PENETROX™ with brush lid**

All types of PENETROX™ are available in an 8 oz. bottle with a brush lid for ease of application.



**PENACARTRIDGE**

PENACARTRIDGE is a 1 lb. cartridge filled with PENETROX-A. It's designed to fit standard caulking guns for easy insertion into transmission and distribution connectors. Additionally, this packaging design provides a convenient method for applying PENETROX™ to many different applications.



**PENETROX™ A-13**

PENETROX™ A-13 is a synthetic base compound with evenly suspended zinc particles. It is recommended for aluminum to aluminum, aluminum to copper connections plus aluminum conduit threads. It is compatible with rubber, polyethylene and other insulating materials. UL Listed for all voltages.

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**PENETROX™ A**

PENETROX A is a natural (petroleum) base compound with evenly suspended zinc particles. It is recommended for aluminum to aluminum, aluminum to copper connections and aluminum conduit threads. It is not recommended for use with rubber or polyethylene insulated conductors. UL listed to 600V.



**PENETROX™ E**

PENETROX™ E is a synthetic base compound with evenly suspended copper particles. It is recommended for copper to copper, copper threads and all grounding applications. UL Listed.



**PENETROX™ HT**

PENETROX™ HT is a synthetic silicone based compound with evenly suspended zinc particles and nickel-aluminum alloy particles. It is recommended for aluminum to aluminum connections. It is compatible with rubber. Designed for use with High Temperature ACSS and ACCC connectors. Not UL Listed.

**PENETROX™ A, A-13, E AND HT**

**TECHNICAL INFORMATION**

**PENETROX A**

PENETROX A consists of a natural (petroleum) base vehicle in which zinc particles are suspended. For aluminum to aluminum, aluminum to copper applications and aluminum conduit threads. It is not recommended for use with rubber and polyethylene insulated conductors. UL Listed to 600 volts.

**PENETROX A-13**

PENETROX A-13 consists of a non-petroleum base vehicle in which zinc particles are suspended. Recommended for aluminum to aluminum, aluminum to copper applications and aluminum conduit threads. Compatible with insulating materials such as rubber, or polyethylene. UL Listed and recommended for all voltages.

**PENETROX E**

PENETROX E consists of a non-petroleum base vehicle in which copper granules are suspended. Recommended for copper to copper applications, grounding and for use on copper conduit threads. UL Listed to 600 volts.

**PENETROX HT**

PENETROX HT consists of a non-petroleum base vehicle in which zinc and nickel-aluminum particles are suspended. Recommended for use with aluminum to aluminum High Temperature rated ACSS and ACCC conductors. Not UL Listed.

**Easy to apply:**

1. Scratch brush the conductor surfaces until bright and clean.
2. Immediately apply PENETROX™ to the conductive surfaces.
3. For EHV applications, remove all excess PENETROX™ after installation is complete.



**SHELF LIFE**

When stored in its original container in cool (under 100°F) dry environment, PENETROX™ oxide inhibiting compound will remain workable and functional for 5 years from the Date of Manufacture (MO) marked on the container.



**PROPERTIES OF PENETROX™**

Property	Value PENETROX™ Definition	PENETROX™ HT	PENETROX™ E & A13	PENETROX™ A
Penetration (Unworked)	The value in accordance to ASTM D217 indicates the consistency of a grease. The higher the number, the softer the grease.	240	250	230
Dropping Point (Minimum)	The temperature at which the grease passes from the semi-solid to a liquid state under test conditions.	>580° F	350° F	230° F
Pour Point (Maximum)	The lowest temperature at which the compound will flow. Pour point is the lubricant's ability to perform in cold conditions.	-58° F	-40° F	-15° F

\*MSDS sheets available through customer service.

**ORDERING INFORMATION**

Catalog Number				Container Type	Container Size
PENETROX™ A	PENETROX™ A-13	PENETROX™ E	PENETROX™ HT †		
PENA 1/2	—	—	—	Tube	1/2 oz.
<b>PENA-4</b>	<b>PENA13-4</b>	<b>PENE-4</b>	<b>PENHT-4</b>	Squeeze Bottle	4 oz.
<b>P8A</b>	<b>PENA13-8</b>	<b>PENE-8</b>	<b>PENHT-8</b>	Squeeze Bottle	8 oz.
<b>PENA8BLB</b>	<b>PENA138BLB</b>	<b>PENE8BLB</b>	<b>PENHT8BLB</b>	Bottle with Brush Lid	8 oz.
<b>PENACARTRIDGE</b>	<b>PENA13CARTRIDGE</b>	—	<b>PENHT1LB</b>	Cartridge	1 lb.*
<b>PENA-QT</b>	<b>PENA13-QT</b>	<b>PENE-QT</b>	—	Plastic Tub	1 Quart
<b>PENA-GAL</b>	<b>PENA13-GAL</b>	<b>PENE-GAL</b>	<b>PENHTGAL</b>	Can	1 Gallon
<b>PENA-5GAL</b>	<b>PENA13-5GAL</b>	<b>PENE-5GAL</b>	—	Pail	5 Gallons
<b>PENA-55GAL</b>	<b>PENA13-55GAL</b>	<b>PENE-55GAL</b>	—	Drum	55 Gallons

\* 1 lb. cartridge will fit standard caulking guns.

† Not UL Listed.



B38-0305-00 Wire Brush

## TYPE BDSC

### Duct Sealing Compound

BURNDY Duct Sealing Compound is permanently pliable and is a non-cracking material which can be painted when necessary for a more aesthetic appearance. A gray, non-toxic, non-corrosive, and non-irritating compound, our duct seal will adhere to most clean, dry surfaces with no adverse effects on plastic or metal materials. There is no reaction when used with bare hands.

Supplied in a convenient block shape overwrapped with release paper, and then bagged into a clear PVC bag (which can be reused and resealed) along with application data. Duct sealing compound is used primarily in the building trades to seal around junction boxes, flashing, and service mast entries.

### Features & Benefits:

- Dough-like material easily shapes to suit any application
- Unlimited shelf life, won't dry out or crack over time; permanent pliable, non-cracking
- May be painted immediately after application for a more aesthetic appearance
- Dielectric strength approximately 100V/mil. using ASTM D149-64
- Non-toxic and non-irritating
- 100% non-volatile solids with non-drying, synthetic polymers with inert mineral fibers
- Tolerance range is 40° F to 194° F; will not sag at 280° F for brief time periods
- Recommended working range during application is 20° F
- Perfect for sealing conduit openings, gaps, and holes against drafts, dust, moisture and noise
- Commonly used in electrical trade to seal around junction boxes, flashing, and service mast entrances

Catalog Number	Block Size	Carton Quantity
<b>BDSC1</b>	1 lb.	50 1-lb blocks
<b>BDSC5</b>	5 lbs.	10 5-lb blocks



TYPES CSB & CSJ

Cold Seal Splice Kits

These cold applied splice sealing products are made of specially formulated silicone rubber and offer excellent insulation and moisture proof sealing for in-line cable connector systems or elbow to cable jacket applications. The rubber sleeves are factory expanded and held over a removable, plastic rip core housing. Installs quickly and easily. Type CSJ also includes a mastic seal. Operating temperature range: -40°C to 105°C. Meets ANSI C119.1-1986.



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Features & Benefits

- Easy, safe installation
- Suitable for a wide range of cable sizes
- UV resistance, thermal stability
- No special tools or training required
- Forms a moisture proof seal
- Superior, time-saving insulation technology
- Indoor and outdoor applications

In-Line Splice Sealing Kits Type CSB - Low Voltage conductor only

Catalog Number	Conductor Range	Application Range (min-max diameter)	Supplied Tube Length	Relaxed Tube Length
CSB037800SR1	#2 - 1/0	0.37" - 0.84"	6.50"	8.00"
CSB051900SR1	2/0 - 400	0.51" - 1.18"	7.50"	9.00"
CSB097900SR1	500 - 800	0.97" - 1.95"	7.50"	9.00"
CSB0971200SR1	500 - 800	0.97" - 1.95"	10.50"	12.00"
CSB125900SR1	900 - 1000	1.25" - 2.65"	7.50"	9.00"
CSB163900SR1	1250 - 2000	1.63" - 3.67"	7.50"	9.00"

Cable Jacket Sealing Kits Type CSJ (includes mastic seal) - for JCN Cable Medium Voltage (up to 35kV) conductor

Catalog Number	Conductor Range 15kV Cable	Conductor Range 25kV Cable	Conductor Range 35kV Cable	Application Range (min-max diameter)	Supplied Tube Length	Relaxed Tube Length
CSJB097600SR1	#2 - 4/0	#2 - 2/0	1/0	0.97" - 1.95"	4.50"	6.00"
CSJB125800SR1	2/0 - 1000	1/0 - 750	1/0 - 500	1.25" - 2.65"	6.50"	8.00"
CSJB163900SR1	750 - 1500	600 - 1250	350 - 1000	1.63" - 3.67"	7.50"	9.00"

TYPE HS-T-PF

THIN WALL HEAT SHRINK TUBING

Cross-Linked Polyolefin

6 Inch Lengths

Type HS-T-PF is a flexible thin wall, flame retardant heat shrink tubing made of cross-linked polyolefin. The 2:1 shrink ratio allows for faster shrink recovery, covering wire sizes: #18 AWG to 300 kcmil. Operating temperatures from -55° C to 135° C with a shrink temperature of 120° C.



Meets SAE-AMS-DTL-23053/5  
600 V

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Catalog Number	Nominal Diameter Inches	Min. Exp. I.D. In.	Max. Recov. I.D. In.	Nom. Wall Thickness In.	Conductor Range	Pieces per Package	
						# Pieces Black	# Pieces Each Color
HSM116T6PF26	1/16	0.06	0.03	0.02	#18	8	3
HSB116T6PF26	1/16	0.06	0.03	0.02	#18	26	0
HSM332T6PF24	3/32	0.09	0.05	0.02	#18-16	6	3
HSB332T6PF24	3/32	0.09	0.05	0.02	#18-16	24	0
HSM18T6PF20	1/8	0.12	0.06	0.02	#18-14	2	3
HSB18T6PF20	1/8	0.12	0.06	0.02	#18-14	20	0
HSM316T6PF18	3/16	0.19	0.09	0.02	#18-12	6	2
HSB316T6PF18	3/16	0.19	0.09	0.02	#18-12	18	0
HSM14T6PF14	1/4	0.25	0.12	0.18	#14-10	2	2
HSB14T6PF14	1/4	0.25	0.12	0.18	#14-10	14	0
HSM38T6PF12	3/8	0.38	0.19	0.02	#8-6	6	1
HSB38T6PF12	3/8	0.38	0.19	0.02	#8-6	12	0
HSM12T6PF10	1/2	0.50	0.12	0.02	#6-2	4	1
HSB12T6PF10	1/2	0.50	0.12	0.02	#6-2	10	0
HSM34T6PF8	3/4	0.75	0.38	0.02	#1-3/0	2	1
HSB34T6PF8	3/4	0.75	0.38	0.02	#1-3/0	8	0
HSM100T6PF7	1	1.00	0.50	0.18	2/0-300	1	1
HSB100T6PF7	1	1.00	0.50	0.18	2/0-300	7	0

HSB series — all black

HSM series — multiple colors: black, blue, clear, green, red, white, yellow

HSB11612T6PF14	1/16, 3/32, 1/8, 3/16, 1/4, 3/8, 1/2	—	—	14	0
HSB38100T6PF8	3/8, 1/2, 3/4, 1"	—	—	8	0

Multiple diameter packages contain two pieces of each size listed: Black only.

**TYPE HS-T-PF**

**THIN WALL HEAT SHRINK TUBING**

Cross-Linked Polyolefin

**4 Foot Reels**

Type HS-T-PF is a flexible thin wall, flame retardant heat shrink tubing made of cross-linked polyolefin. The 2:1 shrink ratio allows for faster shrink recovery, covering wire sizes: #18 AWG to 300 kcmil. Operating temperatures from -55° C to 135° C with a shrink temperature of 120° C.



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Meets SAE-AMS-DTL-23053/5  
600 VOLTS

**Specify Color Code in Third Position of Catalog Number:**

Example: HSC316T48PF

- B** : BLACK
- BL**: BLUE
- C** : CLEAR
- G** : GREEN
- R** : RED
- W** : WHITE
- Y** : YELLOW

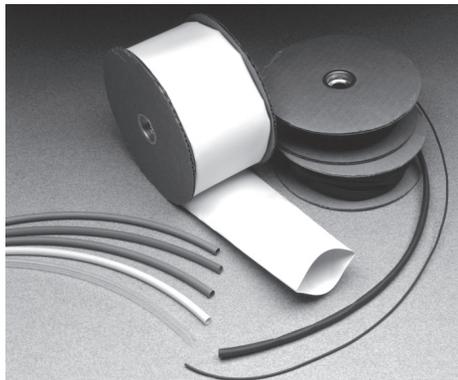
Catalog Number	Nominal Diameter Inches	Min. Exp. I.D. In.	Max. Recov. I.D. In.	Nom. Wall Thickness In.	Conductor Range
HS_116T48PF	1/16	0.06	0.03	0.018	#18
HS_332T48PF	3/32	0.09	0.05	0.020	#18 - 16
HS_18T48PF	1/8	0.12	0.06	0.020	#18 - 14
HS_316T48PF	3/16	0.19	0.09	0.020	#18 - 12
HS_14T48PF	1/4	0.25	0.12	0.180	#14 - 10
HS_38T48PF	3/8	0.38	0.19	0.020	#8 - 6
HS_12T48PF	1/2	0.50	0.12	0.020	#6 - 2
HS_34T48PF	3/4	0.75	0.38	0.020	#1 - 3/0
HS_100T48PF	1	1.00	0.50	0.180	2/0 - 300
HS_150T48PF	1-1/2	1.50	0.75	0.180	350 - 750
HS_200T48PF	2	2.00	1.00	0.180	250 - 500

**TYPE HS-T-PF**

**THIN WALL HEAT SHRINK TUBING**

Cross-Linked Polyolefin

25 Foot Reels



Type HS-T-PF is a flexible thin wall, flame retardant heat shrink tubing made of cross-linked polyolefin. The 2:1 shrink ratio allows for faster shrink recovery, covering wire sizes: #18 AWG to 300 kcmil. Operating temperatures from -55° C to 135° C with a shrink temperature of 120° C.



Meets SAE-AMS-DTL-23053/5  
600 VOLTS

**Specify Color Code in Third Position of Catalog Number:**

Example: HSC116T300PF

- B** : BLACK
- BL**: BLUE
- C** : CLEAR
- G** : GREEN
- R** : RED
- W** : WHITE
- Y** : YELLOW



Catalog Number	Nominal Diameter Inches	Min. Exp. I.D. In.	Max. Recov. I.D. In.	Nom. Wall Thickness In.	Conductor Range
HS_116T300PF	1/16	0.06	0.03	0.018	#18
HS_332T300PF	3/32	0.09	0.05	0.020	#18 - 16
HS_18T300PF	1/8	0.12	0.06	0.020	#18 - 14
HS_316T300PF	3/16	0.19	0.09	0.020	#18 - 12
HS_14T300PF	1/4	0.25	0.12	0.180	#14 - 10
HS_38T300PF	3/8	0.38	0.19	0.020	#8 - 6
HS_12T300PF	1/2	0.50	0.12	0.020	#6 - 2
HS_34T300PF	3/4	0.75	0.38	0.020	#1 - 3/0
HS_100T300PF	1	1.00	0.50	0.180	2/0 - 300

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**TYPE HS-H-PF**

**HEAVY WALL HEAT SHRINK TUBING**

Cross-Linked Polyolefin

Cut Lengths and 4 Foot Sticks



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Type HS-H-PF is a heavy wall, flame retardant heat shrink tubing made of cross-linked polyolefin. The shrink ratio is 3:1, and the inside diameter is coated with an adhesive sealant to protect against moisture and corrosion. UL486D Listed for direct burial applications. Accommodates #14 AWG - 500 kcmil conductors. Operating temperatures from -55° C to 135° C with a shrink temperature of 120° C.



Meets SAE-AMS-DTL-23053/5  
600 V

Catalog Number	Length	Nominal Diameter Inches	Min. Exp. I.D. In.	Max. Recov. I.D. In.	Nom. Wall Thickness In.	Conductor Range	Number of Pcs. Per Package
HSB35H3PF25	3"	0.35	0.35	0.15	0.07	#14-10	25
HSB35H6PF25	6"	0.35	0.35	0.15	0.07	#14-10	25
HSB35H48PF5	4'	0.35	0.35	0.15	0.07	#14-10	5
HSB34H6PF10	6"	0.75	0.75	0.22	0.09	#6-2	10
HSB34H9PF10	9"	0.75	0.75	0.22	0.09	#6-2	10
HSB34H48PF5	4'	0.75	0.75	0.22	0.09	#6-2	5
HSB110H6PF5	6"	1.10	1.10	0.40	0.12	#1-3/0	5
HSB110H9PF5	9"	1.10	1.10	0.40	0.12	#1-3/0	5
HSB110H48PF5	4'	1.10	1.10	0.40	0.12	#1-3/0	5
HSB150H9PF3	9"	1.50	1.50	0.50	0.16	2/0-350	3
HSB150H12PF3	12"	1.50	1.50	0.50	0.16	2/0-350	3
HSB150H48PF5	4'	1.50	1.50	0.50	0.16	2/0-350	5
HSB200H9PF2	9"	2.00	2.00	0.75	0.16	250-500	2
HSB200H12PF2	12"	2.00	2.00	0.75	0.16	250-500	2
HSB200H48PF2	4'	2.00	2.00	0.75	0.16	250-500	2

Available in black only.

**TYPE HSC-FR**

**VISI-SHRINK™**

Fire Retardant Clear Heat Shrink Tubing



UL Recognized to 600V

Type HSC-FR is a flexible polyvinyl chloride clear heat-shrink tubing. Excellent flame retardant properties and a 2:1 shrink ratio, the VISI-SHRINK tubing enables inspectors to read die index embossments on installed connectors easily. UL Recognized, 105° C, 600V, the operating temperature from -20° C to 105° C with a shrink temperature of 135° C.

**Features & Benefits**

- UL 224, VW-1 Rated
  - ◇ Self-extinguishing flame retardant properties.
- Clear Tubing
  - ◇ Allows inspection of die index embossment and shiner after installation is complete. Should any corrosion occur it will be visible during inspection.
- Low Shrink Temperature
  - ◇ Only requires common hot air guns to apply.
- Meets MIL-M-23053/Z-206C



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Catalog Number	I.D. Expanded	I.D. After Recovery	Wall Thickness	Conductor Range		Standard Reel Size (Feet)
				Code	Flex	
HSC18FR	0.13	0.06	0.03	#16-#14	#16-#14	50
HSC18FR250	0.13	0.06	0.03	#16-#14	#16-#14	250
HSC14FR	0.25	0.13	0.03	#12-#8	#12-#10	50
HSC14FR250	0.25	0.13	0.03	#12-#8	#12-#10	250
HSC38FR	0.38	0.19	0.03	#6-#4	#8-#6	50
HSC38FR250	0.38	0.19	0.03	#6-#4	#8-#6	250
HSC12FR	0.50	0.25	0.03	#4-#1	#6-#4	50
HSC12FR250	0.50	0.25	0.03	#4-#1	#6-#4	250
HSC34FR	0.75	0.38	0.03	1/0-3/0	#2-1/0	50
HSC34FR250	0.75	0.38	0.03	1/0-3/0	#2-1/0	250
HSC100FR	1.00	0.50	0.04	4/0-300	1/0-4/0	25
HSC100FR100	1.00	0.50	0.04	4/0-300	1/0-4/0	100
HSC112FR	1.50	0.75	0.04	350-750	250-500	25
HSC112FR100	1.50	0.75	0.04	350-750	250-500	100
HSC200FR	2.00	1.00	0.05	800-1000	500-750	25
HSC200FR100	2.00	1.00	0.05	800-1000	500-750	100

**NOTES:**

1. Shrink temperature is 135° C (275° F).
2. For best results move heat gun along the length of heat shrink to avoid concentrations.
3. To extend useful life, store material below 70°F.
4. For additional Heat Shrinkable Tubing see "URD" section Type RYAC and RK169-2, RK170-2 in this section.

**TYPE HS-FR**

**THIN WALL HEAT SHRINK**

Fire Retardant  
Heat Shrink Tubing

UL Recognized to 600V

Type HS-FR is a flexible polyvinyl chloride thin wall heat shrink. Offering insulating, color identification and strain relieving properties for terminations and splices. The 2:1 shrink ratio allows for faster shrink recovery, covering wire sizes: #16 AWG to 1000 kcmil. UL Recognized, 105° C, 600V, operating temperatures from -20° C to 105° C with a shrink temperature of 135°.



**Features & Benefits**

- UL 224, VW-1 Rated
  - ◇ Self-extinguishing flame retardant properties.
- Multi-use Tubing
  - ◇ Insulate, strain relief.
- Easy Identification
  - ◇ Available in wide range of colors.
- Low Shrink Temperature
  - ◇ Only requires common hot air guns to apply.
- Meets MIL-M-23053/Z-206C

**How to Order:**

Example: **HSB18FR**

- B** - Black
- BLU** - Blue
- G** - Green
- R** - Red
- W** - White
- Y** - Yellow

F-12



Catalog Number	I.D. Expanded	I.D. After Recovery	Wall Thickness	Conductor Range		Standard Reel Size (Feet)
				Code	Flex	
HS_18FR	0.125	0.062	0.025	#16 - #14	#16 - #14	50
HS_18FR250	0.125	0.062	0.025	#16 - #14	#16 - #14	250
HS_14FR	0.250	0.125	0.025	#12 - #8	#12 - #10	50
HS_14FR250	0.250	0.125	0.025	#12 - #8	#12 - #10	250
HS_38FR	0.375	0.187	0.025	#6 - #4	#8 - #6	50
HS_38FR250	0.375	0.187	0.025	#6 - #4	#8 - #6	250
HS_12FR	0.500	0.250	0.025	#4 - #1	#6 - #4	50
HS_12FR250	0.500	0.250	0.025	#4 - #1	#6 - #4	250
HS_34FR	0.750	0.375	0.030	1/0 - 3/0	#2 - 1/0	50
HS_34FR250	0.750	0.375	0.030	1/0 - 3/0	#2 - 1/0	250
HS_100FR	1.000	0.500	0.035	4/0 - 300	1/0 - 4/0	25
HS_100FR100	1.000	0.500	0.035	4/0 - 300	1/0 - 4/0	100
HS_112FR	1.500	0.750	0.040	350 - 750	250 - 500	25
HS_112FR100	1.500	0.750	0.040	350 - 750	250 - 500	100
HS_200FR	2.000	1.000	0.045	800 - 1000	500 - 750	25
HS_200FR100	2.000	1.000	0.045	800 - 1000	500 - 750	100

**NOTES:**

1. Shrink temperature is 135° C (275° F).
2. For best results move heat gun along the length of heat shrink to avoid concentrations.
3. To extend useful life, store material below 70° F.
4. For additional Heat Shrinkable Tubing see "URD" section Type RYAC and RK169-2, RK170-2 in this section.

**TYPE HSIC - FR**

**HEAVY WALL HEAT SHRINKABLE END CAP**

UL LISTED TO 600V

Type HSIC-FR, Heat Shrink Insulating End Cap Fire Retardant is a heavy wall, fire retardant end cap made of cross-linked thermally stabilized black polyolefin. Used to insulate exposed conductors in energized applications. The 3:1 shrink ratio offers greater range, accommodating copper wire sizes, #8 AWG thru 2500+ kcmil. Performs effectively over lead, aluminum, steel, polyethylene, EPR, and PVC jacketed materials. Blue thermal chromatic lines disappear indicating correct installation temperature and provide inspectability. I.D. adhesive provides superior moisture and weather resistant characteristics.



**Features & Benefits**

- Minimum 28 Oxygen index, UL94-VO rated.
  - ◊ Self-extinguishing flame retardant properties.
- 3:1 shrink ratio
  - ◊ Minimum inventory required.
- Thermal chromatic lines
  - ◊ Indicate proper installation.
- Low shrink temperature, 150°C
  - ◊ Only requires common hot air gun to apply.
- Meets sealing requirements: ANSI-C119.1, UL486D
  - ◊ Weather and moisture resistant.



1. Slide the HSIC-FR end cap onto the cable and hold in place using forefinger or thumb.



2. Beginning at closed end apply heat, blue thermochromatic lines will begin to disappear at 150° C. Gradually, move heat source to open end and around cap. Once lines are no longer visible and adhesive flows out of open end, discontinue heating.



3. HSIC-FR end cap installed on cable.

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Catalog Number	600V Cable		Internal Diameter		Wall Thickness		Length ± 20%		Number of Pcs. per Package
	Code	Flex	(Min) Exp.	(Max) Rec	Exp.	Rec. ± 20%	Exp.	Rec.	
HSIC8-1FR	#8-#1	#8-#4	0.50	0.16	0.03	0.08	3.00	2.50	10
HSIC4-40FR	#4-4/0	#4-2/0	0.75	0.24	0.03	0.08	3.50	2.50	10
HSIC10-500FR	1/0-500 kcmil	#1-313.1 kcmil	1.10	0.35	0.04	0.12	4.00	3.00	5
HSIC30-1000FR	3/0-1000 kcmil	2/0-646 kcmil	1.50	0.47	0.05	0.16	4.50	3.25	5
HSIC200FR	300-1750 kcmil	250-1111 kcmil	2.00	0.63	0.05	0.16	4.50	3.50	5
HSIC350FR	1250 kcmil (min)	—	3.50	1.18	0.05	0.16	5.00	4.50	5

**TYPE BSC**

**Push-On Cable End Cap  
Containing “Super-Seal”  
Waterproofing Mastic**

Waterproofing seals work instantly and stay in place with tape. The maximum conductors shown in the table are based upon caps that have been stretched when making the installations. The same items can be effectively installed on small conductors since the mastic has adhesive qualities when pressed by firmly pushing the caps against the conductor ends.



Close-up of Super-Seal Waterproofing Mastic

**Features & Benefits**

- Effective method for sealing conductor ends and conduit pipe
- Flexible, easy to apply - No tools required
- Waterproof seals work instantly and stay in place without tape
- Super-Seal is non-hardening with no adverse effect on cable insulation
- Easy removal, reusable
- Different colors for each conductor range accommodated
- Material: PVC Rated to 600 Volts
- Packaged in clear bags labeled with size and application data

Bagged in clear polyethylene with an information tag. Shelf service life is indefinite since Super-Seal is non-hardening. Super-Seal has no adverse effect on cable insulation.

Additional intermediate sizes and larger sizes through 4.88" O.D. can also be supplied on special orders to specific color codes. Contact factory for information.

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**Push On Cable End Caps with Super-Seal**

Catalog Number	O.D. Accommodated (inches)	Color	Length (inches)	Thickness of Super-Seal in cap (inches)
BSC687	0.69 - 0.75	Red	1.50	0.38
BSC1000	1.00 - 1.08	Orange	1.50	0.38
BSC1125	1.13 - 1.21	Yellow	1.50	0.38
BSC1375	1.38 - 1.47	Gray	1.50	0.38
BSC1500	1.53 - 1.63	Black	1.50	0.38
BSC1875	1.90 - 2.04	Yellow	1.50	0.38
BSC2375	2.39 - 2.55	Blue	1.50	0.38
BSC250025	2.50 - 2.66	Black	2.50	0.62

**TYPE BPC**

**Force Fit Cable Caps**

BPC caps are sized to provide force fits on the listed diameters of conductors. Caps are color coded as indicated and are packaged in clear polyethylene bags which show size and application data. Caps conform to the conductor shape and will remain in place without using tape. A moisture seal cannot always be assured using this method however. All caps are 1.5" tall.



Additional intermediate sizes and larger sizes through 4.88" O.D. can also be supplied on special orders to specific color codes. Contact factory for information.

**Features & Benefits**

- Simple, fast installation with no tools required
- Accepts wide range of diameters (0.32"-3.6")
- Tight fitting
- Packaged in clear bags labeled with size and application data
- Different colors for each conductor range accommodated
- Material: PVC Rated to 600 Volts

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Catalog Number	Conductor O.D. Range (inches)	Conductor Size Ratings (Based on 600 V XLP Insulation)		Cap Color Code	Pieces per Bag	Standard Box Quantity
		Concentric & Compressed Str.	Compact Strand			
BPC312	.32 - .38	6 & 4	6, 4 & 2	Orange	100	500
BPC375	.38 - .44	4 & 2	2	Red	100	500
BPC437	.44 - .51	1	1 & 10	Pink	100	500
BPC500	.51 - .55	1/0	2/0	Yellow	100	500
BPC562	.57 - .65	2/0 & 3/0	3/0	Pale Blue	100	500
BPC625	.63 - .70	-	4/0	Pink	100	500
BPC687	.69 - .75	4/0	250	Red	100	500
BPC750	.76 - .84	250 & 300	300 & 350	Black	100	500
BPC843	.85 - .93	350	400	Brown	50	250
BPC875	.88 - .96	400	500	Maroon	50	250
BPC1000	1.00 - 1.08	500	600	Orange	50	250
BPC1125	1.13 - 1.21	600	750	Yellow	50	250
BPC1187	1.19 - 1.27	750	-	Black	50	250
BPC1250	1.30 - 1.38	-	1000	Red	50	250
BPC1375	1.38 - 1.47	1000	-	Gray	50	250
BPC1500	1.53 - 1.63	1250	-	Black	40	200
BPC1687	1.70 - 1.80	1500	-	Pale Blue	40	200
BPC1875	1.90 - 2.04	2000	-	Yellow	40	200
BPC2000	2.02 - 2.18	-	-	Orange	40	200
BPC2375	2.39 - 2.55	-	-	Blue	40	200
BPC2500	3.50 - 3.66	-	-	Black	40	200
BPC3500	3.50 - 3.66	-	-	Red	40	200

WIREMIKE™

Stainless Steel Wire Micrometer

- Strong, durable, high quality
- Allow for use as both caliper and ruler
- Most formats measures I.D. and O.D. of tubing, thin-wall and rigid conduit including IPS, ACSR, stranded and solid commercial cables



WIREMIKE

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Catalog # WIREMIKE, WIREMIKED and RK1942 are for use on:

ACSR

#6 to 336.4 (26/7) Stranded

Stranded AWG

#18 to 2000 kcmil

Solid

#20 to 4/0 AWG

IPS Tubing (Cu/Al) and Rigid Conduit:

1/4" to 2-1/2"

Tubing Sizes:

3-1/8" inside maximum; 2-15/16" outside maximum

Thin-wall Conduit:

3/8" to 2-1/2"

Variations:

WIREMIKE

Stainless Steel with inch/fraction markings

WIREMIKECI

Stainless Steel, no ruler capabilities but may be used for reference on specific completed crimps (see more detail below on WIREMIKECI)

WIREMIKED

Stainless Steel, decimal markings in place of fraction markings, same capabilities as catalog # WIREMIKE™

RK1942

Convenience packaging of WIREMIKE (with inch markings) in packaging suitable for hanging on a rack; sold in multiples of 10 only

Catalog # WIREMIKECI is for use on:

Compression Connectors and Splices (including Compression Grounding)

#18 to 2500 kcmil Copper Class B

#10 to 4/0 Solid Aluminum / Copper

#18 to 3500 kcmil Concentric Aluminum

#8 to 1100 kcmil Compact Aluminum

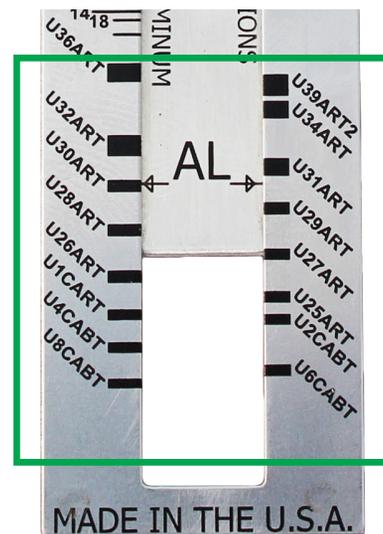
#14 to 1111 kcmil Copper DLO

Also used for reference only\* for inspection of completed crimp when using Butting Copper or Aluminum Dies with the 750, 46, 35, or 39 series of tools.

Copper Dies U8CRT to U44XRT

Aluminum Dies U8CABT to U39ART-2

Close up for the Die Inspection Section (Used for Reference Only\*) Catalog # WIREMIKECI only



\*WIREMIKECI tool is to provide measurements for reference only, not to confirm the suitability of connection. Customer is responsible to independently verify suitability of connection.

## MISCELLANEOUS ACCESSORIES

### TYPE BHSG1100

### HEAT GUN

250° - 1100° F (121° - 650° C)

Multi-purpose, low cost heat gun has an electronic variable thermal control dial. BHSG1100 meets the requirements of UL. It has a temperature range of 250° - 1100° F (121° - 650° C). 2 speed motor. Built-in safety stand heat guard included. Professional heat gun and accessories are recommended for all of your BURNDY heat shrink applications.



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