





# Plymouth Bishop Product Specifications

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# Heavy Duty 2 Vinyl Plastic Electrical Tape

## HEAVY DUTY TAPE FOR INSULATING AND MECHANICAL APPLICATIONS

- 1 10 mil thickness
- 1 High dielectric strength
- 1 Flame retardant
- 1 UL and CSA approved
- 1 Highly resistant to sun, water, oil, acids, alkalies, corrosive chemicals
- 1 Meets ASTM Specification D-2301

**RECOMMENDED USES:** General splicing. Primary insulation for splices at not more than 600 volts. Protective outer jacket. Use where maximum mechanical protection is required. Method of bonding the abrasive to the vinyl prevents transfer and gives greater adhesive strength.

### STANDARD SIZES:

- 1 3/4 in x 66 ft.  
19mm x 20m
- 1 3/4 in x 108 ft.  
19mm x 31m

**DESCRIPTION:** Heavy Duty 2 Vinyl Plastic Electrical Tape is a general purpose electrical grade, pressure sensitive vinyl tape that gives complete electrical and mechanical protection for heavy duty taping jobs. Heavier thickness results in quicker buildups for added protection.

### SPECIFICATIONS:

| PROPERTY              | VALUE               | UNIT    | TEST METHOD |
|-----------------------|---------------------|---------|-------------|
| <b>PHYSICAL</b>       |                     |         |             |
| Color                 | Black               | -       | -           |
| Thickness             | 0.010               | inch    | ASTM-D-1000 |
|                       | 0.254               | mm      |             |
| Tensile Strength      | 30                  | lb./in. | ASTM-D-1000 |
| Elongation            | 225                 | %       | ASTM-D-1000 |
| Adhesion to Steel     | 25                  | oz./in. | ASTM-D-1000 |
| Adhesion to Backing   | 25                  | oz./in. | ASTM-D-1000 |
| Flammability          | 4 max.              | second  | ASTM-D-1000 |
| Flagging              | 0.10                | inch    | ASTM-D-1000 |
| Temperature Rating    |                     |         |             |
| Maximum               | 80                  | °C      | UL-510      |
|                       | 105                 | °C      | CSA-22.2    |
| Minimum               | -10                 | °C      | UL-510      |
|                       | 0                   | °C      | CSA-22.2    |
| <b>ELECTRICAL</b>     |                     |         |             |
| Dielectric Strength   |                     |         |             |
| Standard              | 10,000              | volts   | ASTM-D-1000 |
| Wet                   | 9,000               | volts   | ASTM-D-1000 |
| Dielectric Constant   | 3.2                 | -       | ASTM-D-150  |
| Power Factor          | 0.07                | -       | ASTM-D-150  |
| Insulation Resistance | 1 x 10 <sup>6</sup> | megohms | ASTM-D-1000 |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.

\*Formerly known as Slipknot 10

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# Revere<sup>®</sup> 7 Vinyl Plastic Electrical Tape

## GENERAL PURPOSE TAPE FOR INSULATING AND MECHANICAL APPLICATIONS

- 7 Mil thickness
- High dielectric strength
- Flame retardant
- Highly resistant to sun, water, oil, acids, alkalis, corrosive chemicals
- UL and CSA approved

**RECOMMENDED USES:** General splicing. Primary insulation for splices at not more than 600 volts. Protective outer jacket. Harnessing and binding cables.

### STANDARD SIZES:

3/4 in. x 66 ft.      1 1/2 in x 66 ft.  
19 mm x 20 m      38 mm x 20 m

**DESCRIPTION:** Revere 7 Vinyl Plastic Electrical Tape is a general purpose electrical grade, pressure sensitive vinyl tape that gives complete electrical and mechanical protection for most general taping jobs with more dielectric protection than similar tapes. Method of bonding the adhesive to the vinyl prevents transfer and gives greater adhesive strength. Thin, tough and resilient, it can be stretched to conform easily without breaking.

## SPECIFICATIONS

| PROPERTY              | VALUE               | UNIT    | TEST METHOD |
|-----------------------|---------------------|---------|-------------|
| <b>PHYSICAL</b>       |                     |         |             |
| Color                 | Black               | -       | -           |
| Thickness             | 0.007               | inch    | ASTM-D-1000 |
|                       | 0.178               | mm      |             |
| Tensile Strength      | 18                  | lb/in   | ASTM-D-1000 |
| Elongation            | 220 min.            | %       | ASTM-D-1000 |
| Adhesion              |                     |         |             |
| to Steel              | 20                  | oz/in   | ASTM-D-1000 |
| to Backing            | 18                  | oz/in   | ASTM-D-1000 |
| Flammability          | 4 max.              | second  | ASTM-D-1000 |
| Flagging              | 0.10 max.           | inch    | ASTM-D-1000 |
| Temperature           |                     |         |             |
| Rating-Maximum        | 80                  | °C      | UL-510      |
|                       | 105                 | °C      | CSA-22.2    |
| Minimum               | -10                 | °C      | UL-510      |
|                       | -10                 | °C      | CSA-22.2    |
| <b>ELECTRICAL</b>     |                     |         |             |
| Dielectric Strength   |                     |         |             |
| Standard              | 7,000 min           | volts   | ASTM D 1000 |
| Wet                   | 6,300 min           | volts   | ASTM D 1000 |
| Dielectric Constant   | 3.2                 | -       | ASTM D 150  |
| Power Factor          | 0.07                | -       | ASTM D 150  |
| Insulation Resistance | 1 x 10 <sup>6</sup> | megohms | ASTM D 1000 |

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Rev & Revised 12/96



# 12 Vinyl Pipewrap Tape

## CORROSION PROTECTION TAPE

- 20 mil thickness
- Highly resistant to sun, water, oil, acids, alkalies, corrosive chemicals
- Bacteria and fungus resistant
- Abrasion resistant
- Electrical protection

**RECOMMENDED USES:** Protect pipe joints, conduit and couplings for overhead or direct buried applications.

### STANDARD SIZES:

- 2 in x 100 ft.  
51mm x 31m  
Printed or unprinted

Consult factory for other sizes.

**DESCRIPTION:** 12 Vinyl Pipewrap Tape is a corrosion protection pressure sensitive vinyl tape that gives complete environmental, mechanical and electrical protection for most pipe wrapping jobs. Method of bonding the adhesive to the vinyl prevents transfer and gives greater adhesive strength. Thick, tough and resilient, it can be stretched to conform easily without breaking.

12-V Revised 12/96

### SPECIFICATIONS:

| PROPERTY              | VALUE               | UNIT    | TEST METHOD |
|-----------------------|---------------------|---------|-------------|
| <b>PHYSICAL</b>       |                     |         |             |
| Color                 | Black               | -       | -           |
| Thickness             | 0.020               | inch    | ASTM-D-1000 |
|                       | 0.508               | mm      |             |
| Tensile Strength      | 50                  | lbs/in  | ASTM-D-1000 |
| Elongation            | 200                 | %       | ASTM-D-1000 |
| Adhesion to Steel     | 21                  | oz/in   | ASTM-D-1000 |
| Adhesion to Backing   | 19                  | oz/in   | ASTM-D-1000 |
| <b>ELECTRICAL</b>     |                     |         |             |
| Dielectric Strength   | 14,000              | volts   | ASTM-D-1000 |
| Dielectric Constant   | 3.2                 | -       | ASTM-D-150  |
| Power Factor          | 0.07                | -       | ASTM-D-150  |
| Insulation Resistance | 1 x 10 <sup>6</sup> | megohms | ASTM-D-1000 |

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# 11 Vinyl Pipewrap Tape

## CORROSION PROTECTION TAPE

- 10 mil thickness
- Highly resistant to sun, water, oil, acids, alkalis, corrosive chemicals
- Bacteria and fungus resistant
- Abrasion resistant
- Electrical protection

**RECOMMENDED USES:** Protect pipe joints, conduit and couplings for overhead or direct buried applications.

### STANDARD SIZES:

- 2 in x 100 ft.  
51mm x 31m  
Printed or Unprinted

Consult factory for other sizes.

**DESCRIPTION:** 11 Vinyl Pipewrap Tape is a corrosion protection pressure sensitive vinyl tape that gives complete environmental, mechanical and electrical protection for most pipe wrapping jobs. Method of bonding the adhesive to the vinyl prevents transfer and gives greater adhesive strength. Thick, tough and resilient, it can be stretched to conform easily without breaking.

## SPECIFICATIONS:

| PROPERTY              | VALUE               | UNIT    | TEST METHOD |
|-----------------------|---------------------|---------|-------------|
| <b>PHYSICAL</b>       |                     |         |             |
| Color                 | Black               | -       | -           |
| Thickness             | 0.010               | inch    | ASTM-D-1000 |
|                       | 0.254               | mm      |             |
| Tensile Strength      | 23                  | lbs/in  | ASTM-D-1000 |
| Elongation            | 200                 | %       | ASTM-D-1000 |
| Adhesion to Steel     | 22                  | oz/in   | ASTM-D-1000 |
| Adhesion to Backing   | 18                  | oz/in   | ASTM-D-1000 |
| <b>ELECTRICAL</b>     |                     |         |             |
| Dielectric Strength   | 10,000              | volts   | ASTM-D-1000 |
| Dielectric Constant   | 3.2                 | -       | ASTM-D-150  |
| Power Factor          | 0.07                | -       | ASTM-D-150  |
| Insulation Resistance | 1 x 10 <sup>6</sup> | megohms | ASTM-D-1000 |

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# Premium 37 Color Coding Vinyl Plastic Electrical Tape

## ALL WEATHER COLOR CODING AND INSULATING TAPE

- 1 7 Mil Thickness
- 1 Vivid colors for quick reference
- 1 Industry approved colors
- 1 Highly resistant to sun, water, oil, acid, alkalis, corrosive chemicals
- 1 Cold and weather resistant
- 1 Flame retardant
- 1 UL and CSA approved
- 1 Meets ASTM Specification D-3005

**RECOMMENDED USES:** Quick identification of electrical phases, circuits, feeders and branches. Also can be used to identify container contents, marking of piping and conduit systems and as a warning tape. Primary insulation for splices at not more than 600 Volts. Low temperature applications.

**COLORS:** Red, white, blue, yellow, orange, green, violet, brown, and grey

### STANDARD SIZES:

- 1 3/4 in. x 66 ft.  
19mm x 20m
- 1 1/2 in x 20 ft.  
13mm x 6m

Consult factory for other sizes.

**DESCRIPTION:** Premium 37 Color Coding Vinyl Plastic Electrical Tape is a colored, electrical grade, pressure sensitive, vinyl tape. Nine colors available. Excellent adhesion to aluminum and copper conductors, plastic and rubber insulations and jackets where quick identification is most commonly needed. Thin, tough, resilient, it can be stretched to conform easily without breaking. Easily applied at low temperatures.

### SPECIFICATIONS

| PROPERTY                     | VALUE               | UNIT    | TEST METHOD |
|------------------------------|---------------------|---------|-------------|
| <b>PHYSICAL</b>              |                     |         |             |
| Thickness                    | 0.007               | inch    | ASTM-D-1000 |
|                              | 0.178               | mm      |             |
| Tensile Strength             | 18                  | lb/in   | ASTM-D-1000 |
| Elongation                   | 200                 | %       | ASTM-D-1000 |
| Adhesion to Steel            | 20                  | oz/in   | ASTM-D-1000 |
| Adhesion to Backing          | 20                  | oz/in   | ASTM-D-1000 |
| Adhesion to Backing @ -7°C   | 50                  | oz/in   | ASTM-D-1000 |
| Unwind @ 7°C                 | 100                 | oz/in   | ASTM-D-1000 |
| Flammability                 | 4 max.              | second  | ASTM-D-1000 |
| Flagging                     | 0.10 max            | inch    | ASTM-D-1000 |
| Temperature Rating Maximum   | 80                  | °C      | UL-510      |
|                              | 105                 | °C      | CSA-22.2    |
| Minimum                      | -10                 | °C      | UL-510      |
|                              | -18                 | °C      | CSA-22.2    |
| <b>ELECTRICAL</b>            |                     |         |             |
| Dielectric Strength Standard | 7,000               | volts   | ASTM-D-1000 |
|                              | 6,300               | volts   | ASTM-D-1000 |
| Dielectric Constant          | 3.2                 | -       | ASTM-D-150  |
| Power Factor                 | 0.01                | -       | ASTM-D-150  |
| Insulation Resistance        | 1 x 10 <sup>6</sup> | megohms | ASTM-D-1000 |

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# Premium 85 CW Vinyl Plastic Electrical Tape

## ALL-WEATHER INSULATING AND JACKETING TAPE

- ↗ 8.5 mil thickness
- ↗ Cold and weather resistant
- ↗ High dielectric strength
- ↗ Highly elastic
- ↗ Flame retardant
- ↗ UL and CSA approved
- ↗ Highly resistant to sun, water, oil, acids, alkalis, corrosive chemicals
- ↗ Meets ASTM Specification D-3005

**RECOMMENDED USES:** For general splicing. Provides primary insulation for splices at not more than 600 Volts. Use as a protective outer jacket. 8.5 Mil Cold Weather Tape is excellent for low temperature applications.

### STANDARD SIZES:

- 3/4 in. x 66 ft., 19mm x 20m
- 1 1/2 in. x 66 ft., 38mm x 20m
- 1 1/2 in. x 108 ft., 38mm x 33m

**DESCRIPTION:** Premium 85 CW Vinyl Plastic Electrical Tape is an all-weather, pressure sensitive, vinyl tape that gives complete electrical and mechanical protection for most general taping jobs with more dielectric protection than similar tapes. The method of bonding the adhesive to the vinyl prevents transfer and gives greater adhesive strength. Thin, tough and resilient, it can be stretched to conform easily without breaking. It is easily applied at low temperatures.

## SPECIFICATIONS:

| PROPERTY                          | VALUE               | UNIT    | TEST METHOD |
|-----------------------------------|---------------------|---------|-------------|
| <b>PHYSICAL</b>                   |                     |         |             |
| Color                             | Black               | -       | -           |
| Thickness                         | 0.0085              | inch    | ASTM-D-1000 |
|                                   | 0.216               | mm      | ASTM-D-1000 |
| Tensile Strength                  | 20                  | lb/in.  | ASTM-D-1000 |
| Elongation                        | 250                 | %       | ASTM-D-1000 |
| Adhesion to Steel to Backing      | 20                  | oz/in.  | ASTM-D-1000 |
|                                   | 20                  | oz/in.  | ASTM-D-1000 |
| to Backing @ -7°C                 | 50                  | oz/in.  | ASTM-D-1000 |
| Unwind @ -7°C                     | 113                 | second  | ASTM-D-1000 |
| Flammability                      | 4 max.              | inch    | ASTM-D-1000 |
| Flagging                          | 0.10 max.           | inch    |             |
| Temp. Rating Maximum              | 80                  | °C      | UL 510      |
|                                   | 105                 | °C      | CSA 22.2    |
| Minimum                           | -10                 | °C      | UL 510      |
|                                   | -18                 | °C      | CSA 22.2    |
| <b>ELECTRICAL</b>                 |                     |         |             |
| Dielectric Strength Standard min. | 11,000              | Volts   | ASTM-D-1000 |
|                                   | 10,000              | Volts   | ASTM-D-1000 |
| Wet min.                          |                     |         |             |
| Dielectric Constant               | 3.2                 | -       | ASTM-D-150  |
| Power Factor                      | 0.01                | -       | ASTM-D-150  |
| Insul. Resistance                 | 1 x 10 <sup>6</sup> | megohms | ASTM-D-1000 |

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Prem85 Revised 11/97

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# Premium 111 Black Vinyl Plastic Electrical Tape

## ALL-WEATHER INSULATING AND JACKETING TAPE

- 7 Mil Thickness
- Cold and weather resistant
- High Dielectric Strength
- Highly elastic
- Flame retardant
- UL and CSA Approved
- Highly resistant to sun, water, oil, acids, alkalies, corrosive chemicals
- Meets ASTM Specification D-3005

**RECOMMENDED USES:** General splicing. Primary insulation for splices at not more than 600 volts. Protective outer jacket. Low temperature applications.

### STANDARD SIZES:

19mm x 20m

19mm x 6m

Other sizes available on request.

**DESCRIPTION:** Premium 111 Black Vinyl Plastic Electrical Tape is an all-weather, pressure sensitive, vinyl tape that gives complete electrical and mechanical protection for most general taping jobs with more dielectric protection than similar tapes. Method of bonding the adhesive to the vinyl prevents transfer and gives greater adhesive strength. Thin, tough and resilient, it can be stretched to conform easily without breaking. Easily applied at low temperatures.

Prem-111 Revised 12/96

## SPECIFICATIONS

| PROPERTY            | VALUE               | UNIT    | TEST METHOD |
|---------------------|---------------------|---------|-------------|
| <b>PHYSICAL</b>     |                     |         |             |
| Color               | Black               | -       | -           |
| Thickness           | 0.007               | inch    | ASTM-D-1000 |
| Tensile Strength    | 18                  | lb/in   | ASTM-D-1000 |
| Elongation          | 240                 | %       | ASTM-D-1000 |
| Adhesion to Steel   |                     | oz/in   | ASTM-D-1000 |
| to Backing          | 20                  | oz/in   | ASTM-D-1000 |
| to Backing @ 7°C    | 50                  |         |             |
| Unwind @ -7°C       | 100                 | oz/in   | ASTM-D-1000 |
| Flammability        | 4 max.              | second  | ASTM-D-1000 |
| Flagging            | 0.10 max.           | in      | ASTM-D-1000 |
| Temp. Rating        |                     |         |             |
| Maximum             | 80                  | °C      | UL 510      |
|                     | 105                 | °C      | CSA 22.2    |
| Minimum             | -10                 | °C      | UL 510      |
|                     | -18                 | °C      | CSA 22.2    |
| <b>ELECTRICAL</b>   |                     |         |             |
| Dielectric Strength |                     |         |             |
| Standard min.       | 10,000              | volts   | ASTM-D-1000 |
| Wet min.            | 9,000               | volts   | ASTM-D-1000 |
| Dielectric Constant | 3.2                 | -       | ASTM-D-150  |
| Power Factor        | 0.01                | -       | ASTM-D-150  |
| Insul. Resistance   | 1 x 10 <sup>6</sup> | megohms | ASTM-D-1000 |

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# Premium 111 Grey Vinyl Plastic Electrical Tape

## ALL-WEATHER INSULATING AND JACKETING TAPE

- 7 Mil Thickness
- Cold and weather resistant
- High Dielectric Strength
- Highly elastic
- Flame retardant
- UL and CSA Approved
- Highly resistant to sun, water, oil, acids
- Meets ASTM Specification D-3005

alkalies, corrosive chemicals

**RECOMMENDED USES:** General splicing. Primary insulation for splices at not more than 600 volts. Protective outer jacket. Low temperature applications.

### STANDARD SIZES:

19mm x 6m

Other sizes available on request.

**DESCRIPTION:** Premium 111 Grey Vinyl Plastic Electrical Tape is an all-weather, pressure sensitive, vinyl tape that gives complete electrical and mechanical protection for most general taping jobs with more dielectric protection than similar tapes. Method of bonding the adhesive to the vinyl prevents transfer and gives greater adhesive strength. Thin, tough and resilient, it can be stretched to conform easily without breaking. Easily applied at low temperatures.

Prem-111 Revised 10/97

## SPECIFICATIONS

| PROPERTY            | VALUE               | UNIT    | TEST METHOD |
|---------------------|---------------------|---------|-------------|
| <b>PHYSICAL</b>     |                     |         |             |
| Color               | Grey                | -       | -           |
| Thickness           | 0.007               | inch    | ASTM-D-1000 |
| Tensile Strength    | 18                  | lb/in   | ASTM-D-1000 |
| Elongation          | 240                 | %       | ASTM-D-1000 |
| Adhesion to Steel   |                     | oz/in   | ASTM-D-1000 |
| to Backing          | 20                  | oz/in   | ASTM-D-1000 |
| to Backing @ 7°C    | 50                  |         |             |
| Unwind @ -7°C       | 100                 | oz/in   | ASTM-D-1000 |
| Flammability        | 4 max.              | second  | ASTM-D-1000 |
| Flagging            | 0.10 max.           | in      | ASTM-D-1000 |
| Temp. Rating        |                     |         |             |
| Maximum             | 80                  | °C      | UL 510      |
|                     | 105                 | °C      | CSA 22.2    |
| Minimum             | -10                 | °C      | UL 510      |
|                     | -18                 | °C      | CSA 22.2    |
| <b>ELECTRICAL</b>   |                     |         |             |
| Dielectric Strength |                     |         |             |
| Standard min.       | 10,000              | volts   | ASTM-D-1000 |
| Wet min.            | 9,000               | volts   | ASTM-D-1000 |
| Dielectric Constant | 3.2                 | -       | ASTM-D-150  |
| Power Factor        | 0.01                | -       | ASTM-D-150  |
| Insul. Resistance   | 1 x 10 <sup>6</sup> | megohms | ASTM-D-1000 |

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Revised 1/95



# Columbia Vinyl Plastic Electrical Tape

## GENERAL PURPOSE INSULATING TAPE

- 7 Mil Thickness
- Pressure Sensitive
- High Dielectric Strength
- Resistant to sun, water, oil, acids, alkalies, corrosive chemicals
- UL Approved
- Economical
- Conformable, Flexible
- Abrasion resistant

**RECOMMENDED USES:** Use for general splicing, or as a primary insulation for splices up to 600 Volts. Use as a protective outer jacket. For harnessing and binding wires, hoses and shapes.

### STANDARD SIZES:

3/4 in. x 60 ft.

100 rolls per case

Other sizes available on request.

**DESCRIPTION:** Columbia Brand Electrical Tape is an economy grade electrical vinyl tape that gives complete electrical and mechanical protection for most taping jobs. Columbia Tape offers the advantages of both economy and consistent quality.

Colum-V

### SPECIFICATIONS

| PROPERTY                | VALUE | UNIT      | TEST METHOD |
|-------------------------|-------|-----------|-------------|
| <b>PHYSICAL</b>         |       |           |             |
| Color                   | Black | -         | -           |
| Thickness               | 0.007 | inch      | ASTM-D-1000 |
| Tensile Strength        | 16    | lbs/in    |             |
| Elongation              | 125   | %         | ASTM-D-1000 |
| Adhesion to Steel       | 17    | oz/in     | ASTM-D-1000 |
| to Backing              | 17    | oz/in     | ASTM-D-1000 |
| Flammability            | Pass  | -         | ASTM-D-1000 |
| Temperature rating max. | 80    | C°        | UL-510      |
| Dielectric Strength     | 1100  | Volts/mil | ASTM-D-1000 |

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# 100 ASTM Friction Tape

## GENERAL PURPOSE MECHANICAL TAPE

- Adhesive compound on both sides
- Adheres to metal, cable and wire
- Good mechanical strength
- Meets ASTM-D-69

**RECOMMENDED USES:** For providing mechanical protection against abrasion and penetration of cable, splices and wire. Temporary binding and harnessing tape and a multitude of miscellaneous general purpose uses. When applied over tool handles, it effects a non-slip surface.

## STANDARD SIZES:

- 3/4 in. x 30 ft. / 19 mm x 9m
- 3/4 in. x 60 ft. / 19 mm x 18m
- 3/4 in. x 82 1/2 ft. / 19mm x 25m
- 1 in. x 82 1/2 ft. / 25mm x 25m
- 1 1/2 in. x 60 ft. / 38mm x 18m
- 1 1/2 in. x 82 1/2 ft. / 38mm x 25m
- 2 in. x 60 ft. / 51mm x 18m
- 2 in. x 82 1/2 ft. / 51mm x 25m

**DESCRIPTION:** 100 ASTM Friction Tape is comprised of a high quality cotton fabric coated on both sides with a natural synthetic rubber adhesive compound. This results in a high grade friction tape which exceeds the requirements of ASTM-D-69. The superior adhesion permits either side of tape to be applied to the surface being covered.

## SPECIFICATIONS:

| PROPERTY            | VALUE   | UNIT    | TEST METHOD |
|---------------------|---------|---------|-------------|
| <b>PHYSICAL</b>     |         |         |             |
| Color               | Black   | -       | -           |
| Thickness           | 0.015   | inch    | ASTM-D-69   |
|                     | 0.381   | mm      |             |
| Tensile Strength    | 40      | lb/in.  | ASTM-D-69   |
| Adhesion            |         |         |             |
| Standard            | 12      | in/min. | ASTM-D-69   |
| Oven Test           | 12      | in/min. | ASTM-D-69   |
| Parallelism         | 1/8 max | inch    | ASTM-D-69   |
| <b>CHEMICAL</b>     |         |         |             |
| Copper Corrosion    | None    | Visual  | ASTM-D-69   |
| <b>ELECTRICAL</b>   |         |         |             |
| Dielectric Strength | 1,200   | Volts   | ASTM-D-69   |

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Revised 1/95

100A Revised 12/96



# Plyduct® 49 Economy Grade Cloth Duct Tape

## GENERAL PURPOSE CLOTH DUCT TAPE

- Good Adhesion to a Wide Variety of Surfaces
- Easy Unwind and Tear
- Conformable
- Provides a Moisture Barrier
- Temperature Rating 200°F

**DESCRIPTION:** Plyduct 49 is a general purpose economy grade duct tape that adheres well to all types of surfaces. The laminated cloth construction provides superior mechanical strength and will conform well to irregular surfaces.

**RECOMMENDED USES:** For general purpose patching and repairs. Used for masking, bonding, protecting, bundling, sealing, and light duty maintenance.

### SIZE:

- 2 in. x 60 yds.  
51 mm x 54.9 m

Ply49 Revised 12/96

## SPECIFICATIONS

| PROPERTY          | VALUE | UNIT  | TEST METHOD |
|-------------------|-------|-------|-------------|
| <b>PHYSICAL</b>   |       |       |             |
| Color             | Gray  | -     | -           |
| Thickness         | 0.008 | inch  | ASTM-D-1000 |
|                   | 0.254 | mm    |             |
| Tensile Strength  | 22    | lb/in | ASTM-D-1000 |
| Elongation        | 12    | %     | ASTM-D-1000 |
| Adhesion to Steel | 36    | oz/in | ASTM-D-1000 |

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# Plyduct® 48 Cloth Duct Tape

## ALL PURPOSE CLOTH DUCT TAPE

- Excellent adhesion
- Uniform unwind
- Excellent conformability
- Resists twisting and curling
- Temperature rating 200°F
- Tears straight
- Provides a moisture barrier

**DESCRIPTION:** Plyduct 48 is an all purpose cloth duct tape that has excellent adhesion to all types of surfaces. The laminated cloth construction provides superior mechanical strength and will conform well to irregular surfaces.

**RECOMMENDED USES:** Plyduct 48 is excellent for bundling, patching, sealing, mending and heavy duty masking. Use for sealing joints on all types of duct work, repairing and patching hoses, heavy duty harnessing applications.

### SIZE:

- 2 in. x 60 yds.
- 51 mm x 55 m

## SPECIFICATIONS

| PROPERTY          | VALUE  | UNIT  | TEST METHOD |
|-------------------|--------|-------|-------------|
| <b>PHYSICAL</b>   |        |       |             |
| Color             | Silver | -     | -           |
| Thickness         | 0.008  | inch  | ASTM-D-1000 |
|                   | 0.254  | mm    |             |
| Tensile Strength  | 22     | lb/in | ASTM-D-1000 |
| Elongation        | 12     | %     | ASTM-D-1000 |
| Adhesion to Steel | 36     | oz/in | ASTM-D-1000 |

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# 125 Electrical Filler Tape

## FOR RAPID INSULATION BUILD-UP THRU 5KV

- 1 Builds up insulation quickly
- 1 Easy to mold
- 1 Self-amalgamates into a solid flexible mass
- 1 Will not corrode copper or aluminum
- 1 Highly moisture resistant

**RECOMMENDED USES:** 125 can be used as a primary insulation for connections up to 5kV in conjunction with high voltage insulating tape or vinyl plastic electrical tape. 125 is ideal for covering split-bolt connections, padding bus-bar edges and connections, and sealing switchgear and transformer terminals.

### STANDARD SIZE:

- 1 1 1/2 in. X 5 ft.
- 38mm X 1.5m

**DESCRIPTION:** 125 Electrical Filler Tape is a butyl based insulating compound in a 1/8" thick tape form designed for quick, cost effective insulation build-ups. 125 is a self-amalgamating compound that can be readily compressed and molded by hand to conform to irregular shapes and contours. 125 Electrical Filler Tape is to be used in conjunction with other insulating tapes for complete installation.

## SPECIFICATIONS

| PROPERTY            | VALUE            | UNIT   | TEST METHOD |
|---------------------|------------------|--------|-------------|
| <b>PHYSICAL</b>     |                  |        |             |
| Color               | Black            | -      | -           |
| Thickness           | 0.125            | inch   | ASTM-D-4325 |
|                     | 3.170            | mm     |             |
| Elongation          | 1000             | min.   | ASTM-D-4325 |
| Heat Resistance     | Pass @           | Visual | ASTM-D-4325 |
|                     | 95°C             |        |             |
| Operating Temp.     |                  |        |             |
| Max. Continuous     | 80               | °C     | ASTM-D-4388 |
| Emergency Overload  | 95               | °C     |             |
| Separator           | Pass             | Visual | ASTM-D-4388 |
| <b>CHEMICAL</b>     |                  |        |             |
| Water Absorption    | 0.13             | %      | ASTM-D-570  |
| Copper Corrosion    | None             | Visual | ASTM-D-69   |
| <b>ELECTRICAL</b>   |                  |        |             |
| Dielectric Strength | 585 min.         | V/mil  | ASTM-D-4325 |
| Volume Resistivity  | 10 <sup>13</sup> | ohm-cm | ASTM-D-4325 |

(\*Based on testing of a 30 mil sample)

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125FT Revised 12/96



# 150 ASTM Rubber Tape Splicing Compound

## GENERAL PURPOSE INSULATING TAPE FOR USE THRU 2KV

- Self-amalgamating
- Good electrical properties
- Effective moisture seal
- Good conformability

**RECOMMENDED USES:** For insulating of splices on solid dielectric cable thru 2KV in conjunction with a jacketing tape.

### STANDARD SIZES:

- 3/4 in. x 30 ft.  
19mm x 9m
- 1 in. x 30 ft.  
25mm x 9m
- 1 1/2 in. x 30 ft.  
38mm x 9m
- 2 in. x 30 ft.  
51mm x 9m

**DESCRIPTION:** 150 ASTM Rubber Tape is a self amalgamating, low voltage rubber tape which meets the requirements of ASTM-D-4388, Type I. It easily conforms to irregular shapes and surfaces yielding a void free, electrically stable build-up. 150 ASTM Rubber Tape is compatible with all extruded dielectric cable insulations.

### SPECIFICATIONS

| PROPERTY              | VALUE     | UNIT  | TEST METHOD |            |
|-----------------------|-----------|-------|-------------|------------|
| <b>PHYSICAL</b>       |           |       |             |            |
| Color                 | Grey      | -     | -           |            |
| Thickness             | 0.030     | inch  | ASTM-D-4325 |            |
|                       | 0.762     | mm    |             |            |
| Tensile Strength      | 250       | psi   | ASTM-D-4325 |            |
| Elongation            | 300       | %     | ASTM-D-4325 |            |
| Fusion                | 5/64 max. | inch  | ASTM-D-4325 |            |
| Heat Resistance       | 95        | °C    | ASTM-D-4325 |            |
| Operating Temperature | 80        | °C    | ASTM-D-4388 |            |
|                       |           |       |             | Continuous |
|                       |           |       |             | Overload   |
| Overload              | 95        | °C    | ASTM-D-4388 |            |
| <b>ELECTRICAL</b>     |           |       |             |            |
| Dielectric Strength   | 350       | V/mil | ASTM-D-4325 |            |

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Revised 1/95

150 ASTM Revised 12/96





# 122 Rubber Tape Splicing Compound

## GENERAL PURPOSE INSULATING TAPE FOR USE THRU 600V

- | UL approved
- | Self-amalgamating
- | Good electrical properties
- | Good conformability

## RECOMMENDED USES:

For insulating of splices on solid dielectric cable thru 600 volts in conjunction with a jacketing tape.

## STANDARD SIZES:

- | 3/4 in. x 11 ft.  
19mm x 3.3m
- | 3/4 in x 22 ft.  
19mm x 6.7m
- | 2 in x 22 ft.  
51mm x 6.7m

## DESCRIPTION:

122 Rubber Tape is a self-amalgamating, low voltage rubber tape which is UL approved for use as primary insulation at not more than 600 volts. It easily conforms to irregular shapes and surfaces yielding a void free, electrically stable build-up. 122 Rubber tape is compatible with all extruded dielectric cable insulations.

## SPECIFICATIONS:

| PROPERTY            | VALUE | UNIT  | TEST METHOD |
|---------------------|-------|-------|-------------|
| <b>PHYSICAL</b>     |       |       |             |
| Color               | Black | -     | -           |
| Thickness           | 0.030 | inch  | UL510       |
|                     | 0.762 | mm    |             |
| Tensile Strength    | 250   | psi   | UL510       |
| Elongation          | 300   | %     | UL510       |
| Flammability        | Pass  | -     | UL510       |
| Temperature Rating  |       |       |             |
| Weatherability      | 80    | °C    | UL510       |
| <b>ELECTRICAL</b>   |       |       |             |
| Dielectric Strength | 350   | V/mil | UL510       |

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Revised 1/85

122R 2/95



# 170 Brown Friction Tape

## GENERAL PURPOSE MECHANICAL TAPE

- 1 Frictioned compound on both sides
- 1 Adheres to metal, cable and wire
- 1 Good mechanical strength

**RECOMMENDED USES:** For providing mechanical protection against abrasion and penetration of cable, splices and wire. Temporary binding and harnessing tape and a multitude of miscellaneous general purpose uses. When applied over tool handles, it effects a non-slip surface.

### STANDARD SIZES:

- 1 3/4 in. x 70 ft.  
19mm x 21m
- 1 1 in. x 70 ft.  
25mm x 21m
- 1 1 1/2 in. x 70 ft.  
38mm x 21m
- 1 2 in. x 70 ft.  
51mm x 21m

**DESCRIPTION:** 170 Friction Tape is a high quality cotton fabric coated on both sides with a brown rubber adhesive compound. 170 Friction Tape has a natural distinctive rubber color and possesses excellent tack.

### SPECIFICATIONS:

| PROPERTY            | VALUE     | UNIT   | TEST METHOD       |
|---------------------|-----------|--------|-------------------|
| <b>PHYSICAL</b>     |           |        |                   |
| Color               | Brown     | -      | -                 |
| Thickness           | 0.015     | inch   | ASTM-D-69         |
|                     | 0.381     | mm     |                   |
| Tensile Strength    | 40        | lb/in. | ASTM-D-69         |
| Adhesion            |           |        |                   |
|                     | Standard  | 12     | in/min. ASTM-D-69 |
|                     | Oven Test | 12     | in/min. ASTM-D-69 |
| Parallelism         | 1/8 max   | inch   | ASTM-D-69         |
| <b>CHEMICAL</b>     |           |        |                   |
| Copper Corrosion    | None      | Visual | ASTM-D-69         |
| <b>ELECTRICAL</b>   |           |        |                   |
| Dielectric Strength | 1,200     | Volts  | ASTM-D-69         |

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Revised 5/99

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# 10 Plyseal<sup>®</sup> Insulating Mastic

## PERMANENTLY SEAL AND INSULATE SUBSURFACE OR OVERHEAD LOW VOLTAGE ELECTRICAL CONNECTIONS

- 1 Available in roll and pad form
- 1 High dielectric strength
- 1 Superior adhesion to metal, all types of cable insulations and jackets
- 1 Excellent thermal stability
- 1 Impervious to water, salt water, soil and corrosive chemicals
- 1 Will not adversely affect cable insulations or polymeric conducting shields

**RECOMMENDED USES:** For encapsulating and protecting all types of low voltage connections and devices, overhead connections, duct seals and cable end seals.

### STANDARD SIZES:

- 1 3 3/4 in. x 10 ft.  
95mm x 3m
- 1 3 3/4 in. x 3 3/4 in.  
95mm x 95mm
- 1 3 3/4 in. x 6 1/2 in.  
95mm x 165mm

**DESCRIPTION:** 10 Plyseal Insulating Mastic has the superior adhesive qualities and dielectric strength needed to seal and insulate electrical connections up to 600V. It is impervious to ozone, water, soil, chemical or other corrosive chemical. It is unexcelled for cold weather applications and maintains flexibility and a tight seal even when subject to extreme flexure and has excellent thermal stability under load cycling. 10 Plyseal holds fast and permanently to metal, all types of cable insulations and jackets with no adverse effect on cable insulations or polymeric conducting shields. 10Ply 8/99

### SPECIFICATIONS:

| PROPERTY                     | VALUE             | UNIT   | TEST METHOD |                    |
|------------------------------|-------------------|--------|-------------|--------------------|
| <b>PHYSICAL</b>              |                   |        |             |                    |
| Thickness                    | 0.125             | inch   | ASTM-D-4325 |                    |
|                              | 3.17              | mm     |             |                    |
| Operating (1)<br>Temperature | 90                | °C     | ASTM-D-4388 |                    |
|                              |                   |        |             | Continuous         |
|                              |                   |        |             | Emergency Overload |
| <b>CHEMICAL</b>              | Water Absorption  | 0.10   | %           | ASTM-D-570         |
|                              | Copper Corrosion  | None   | Visual      | ASTM-D-69          |
|                              | Ozone Resistance  | Pass   | Visual      | ASTM-D-4325        |
|                              | <b>ELECTRICAL</b> |        |             |                    |
| Dielectric Constant          | 3.2               | -      | ASTM-D-4325 |                    |
| Dissipation Factor           | 0.025             | -      | ASTM-D-4325 |                    |
| Dielectric Strength (2)      | 500               | V/mil  | ASTM-D-4325 |                    |
| Volume Resistivity           | 10 <sup>15</sup>  | ohm-cm | ASTM-D-4325 |                    |

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# 4000 Plyseal<sup>®</sup>-V Insulating Mastic (Vinyl-Backed)

## PERMANENTLY SEAL & INSULATE SUB-SURFACE AND OVERHEAD LOW VOLTAGE ELECTRICAL CONNECTIONS

- 1 Available in roll or pad form
- 1 Vinyl backing
- 1 UV resistant
- 1 High dielectric strength
- 1 Superior adhesion to metal, cable insulations and jackets
- 1 Excludes moisture, may be direct buried or submerged

**RECOMMENDED USES:** For encapsulating and protecting direct buried low voltage connections and devices, terminations, overhead connectors, duct seals, and cable end seals. Ideal for covering molded joints on CN cables.

### STANDARD SIZES:

- 1 4 in x 10 ft.  
102mm x 3m
- 1 4 in. x 4 in.  
102mm x 102mm
- 1 4 in. x 6 1/2 in.  
102mm x 165mm

**DESCRIPTION:** 4000 Plyseal-V is a vinyl backed insulating mastic possessing the superior adhesive qualities and dielectric strength required to seal and insulate direct buried, submerged or overhead electrical connections up to 1000 volts. The vinyl backing adds mechanical strength and is UV resistant. It is impervious to ozone, water, soil and corrosive chemicals. 4000 Plyseal-V holds fast and permanently and will not adversely affect cable insulations and polymeric conducting shields.

4Ply-V

### SPECIFICATIONS:

| PROPERTY              | VALUE                | UNIT   | TEST METHOD |
|-----------------------|----------------------|--------|-------------|
| <b>PHYSICAL</b>       |                      |        |             |
| Thickness             | 0.133                | inch   | ASTM-D-4325 |
|                       | 3.28                 | mm     | ASTM-D-4325 |
| Operating Temperature | 90                   | °C     | ASTM-D-4388 |
|                       | 130                  | °C     |             |
| <b>CHEMICAL</b>       |                      |        |             |
| Water Absorption      | 0.10                 | %      | ASTM-D-570  |
| Copper Corosion       | None                 | Visual | ASTM-D-69   |
| Ozone Resistance      | Pass                 | Visual | ASTM-D-4325 |
| UV Resistance         | Pass                 | Visual | ASTM-D-4325 |
| <b>ELECTRICAL</b>     |                      |        |             |
| Dielectric Strength   | (1) 500              | V/mil  | ASTM-D-4325 |
| Dielectric Constant   | 3.2                  | -      | ASTM-D-4325 |
| Dissipation Factor    | 0.025                | -      | ASTM-D-4325 |
| Volume Resistivity    | 1 x 10 <sup>15</sup> | ohm-cm | ASTM-D-4325 |

(1) 500 V/mil when tested on a .020 in. (.508) thick specimen. Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own test to determine the product's suitability for the intended use.

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# 5000 Bus-Seal® Insulating Mastic (EPR-Backed)

## HIGH VOLTAGE INSULATION FOR SWITCHGEAR BUS CONNECTIONS AND MOLDED JOINTS

- Good electrical properties
- Superior adhesion to metal
- Superior adhesion to pre-insulated bus
- UV resistant
- Moisture, Corrosion and chemical resistant
- For direct burial

**RECOMMENDED USES:** Insulating and water proofing high voltage bus conductors, connectors, equipment lugs and bushings, and insulation continuity of pre-insulated bus. An excellent moisture seal and corrosion protection for junction boxes, bus-duct, and cable tray joints. Outer jacket for direct buried high voltage splices. Ideal for covering molded joints on jacketed CN cable.

### STANDARD SIZES:

- 4 in x 10 ft.  
102mm x 3m

5Bus-S

**DESCRIPTION:** 5000 Bus-Seal is a laminate of W963 Plysafe® EPR High Voltage Tape and 10 Plyseal® Insulating mastic in a roll form. A one-pass application of this laminate provides high dielectric strength, instant adhesion and excellent conformability. Eliminates the necessity of multiple applications of different tapes and compounds.

### SPECIFICATIONS:

| PROPERTY                | VALUE            | UNIT   | TEST METHOD |
|-------------------------|------------------|--------|-------------|
| <b>PHYSICAL</b>         |                  |        |             |
| Thickness               | 0.125            | inch   | ASTM-D-4325 |
|                         | 3.17             | mm     |             |
| <b>CHEMICAL</b>         |                  |        |             |
| Water Absorption        | 0.10             | %      | ASTM-D-570  |
| Copper Corrosion        | None             | Visual | ASTM-D-69   |
| Ozone Resistance        | Pass             | Visual | ASTM-D-4325 |
| UV Resistance           | Pass             | Visual | ASTM-d-4325 |
| <b>ELECTRICAL</b>       |                  |        |             |
| Dielectric Constant     | 3.2              | -      | ASTM-D-4325 |
| Dissipation Factor      | 0.025            | -      | ASTM-D-4325 |
| Dielectric Strength (1) | 500              | V/mil  | ASTM-D-4325 |
| Volume Resistivity      | 10 <sup>15</sup> | ohm-cm | ASTM-D-4325 |

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# B-Sealing Tape

## FOR SEALING TELEPHONE CABLE ENDS AND SPLICE CASE TERMINALS

**RECOMMENDED USES:** B-Sealing Tape is used to form end seals around telephone cable and splice case terminals.

### STANDARD SIZES:

- 1 1/2 in x 15 ft.  
38mm x 4.6m

Consult factory for other sizes.

**DESCRIPTION:** B-Sealing Tape is extruded 1/8" thick from a tacky, soft black butyl rubber compound having exceptional adhesive qualities. It provides a positive seal against moisture and gases. A specially treated paper separates each layer for faster, more efficient use.

### SPECIFICATIONS:

| PROPERTY             | VALUE | UNIT              | TEST METHOD |
|----------------------|-------|-------------------|-------------|
| <b>PHYSICAL</b>      |       |                   |             |
| Color                | Black | -                 | -           |
| Plasticity           |       |                   |             |
| Maximum              | 650   | -                 | *MS-62062   |
| Minimum              | 450   | -                 | *MS-62062   |
| Thickness            | 0.125 | inches            | ASTM-D-1373 |
|                      | 3.175 | mm                |             |
| <b>CHEMICAL</b>      |       |                   |             |
| Carbon Black Content |       |                   |             |
| Maximum              | 43.6  | %                 | *MS-62062   |
| Minimum              | 42.0  | %                 | *MS-62062   |
| Water Absorption     |       |                   |             |
| 24 hours @37.8 °C    | 0.006 | g/in <sup>2</sup> | *MS-62062   |

\*Western Electric Co. Specification

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2/98B-Sealing



# Rubber Mastic (RM) Tape

## SELF BONDING MASTIC TAPE

- Excellent electrical properties
- Superior adhesion
- UV resistant
- Moisture, corrosion, and chemical resistant
- Suitable for direct burial

**RECOMMENDED USES:** For insulating and moisture sealing of splices and terminations on solid dielectric cable. RM Tape can be wrapped, stretched, or molded around irregular shapes for insulation build-up, water sealing and surface protection.

### STANDARD SIZES:

- 1 1/2 in. x .065 in. x 120 in.  
consult factory for other sizes

**DESCRIPTION:** RM Tape is a self-bonding mastic tape which consists of an ethylene propylene rubber (EPR) backing, bonded to a tacky, temperature stable, electrical grade mastic.

### SPECIFICATIONS:

| PROPERTY              | VALUE      | UNIT   | TEST METHOD |
|-----------------------|------------|--------|-------------|
| Thickness             | .065       | inch   | ASTM-D-4325 |
|                       | 1.65       | mm     |             |
| Dielectric Strength   | 400        | V/mil  | ASTM-D-4325 |
| Water Absorption      | 0.10       | %      | ASTM-D-570  |
| UV Resistance         | Pass       | Visual | ASTM-D-4325 |
| Ozone Resistance      | Pass       | Visual | ASTM-D-4388 |
| Operating Temperature | Continuous | 90     | °C          |
|                       | Emergency  | 130    | °C          |
|                       | Overload   |        |             |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.  
RM 12/96

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# Vinyl Mastic (VM) Tape

## PERMANENTLY WATER PROOF AND INSULATE

- Self-fusing.
- UV and Weather Resistant.
- Strong Adhesion to metal, cable insulation and jackets.
- Excellent Corrosion Resistance.
- Superior Dielectric Strength.
- Long lasting Cathodic Protection.

**RECOMMENDED USES:** For sealing, insulating and padding all low voltage electrical connections. Ideal for splicing and sealing applications in the Telecommunications, CATV and Electrical Industries.

### STANDARD SIZES:

- 3/4" x .025" x 20'  
19mm x .635mm x 6m
- 1 1/2" x .025" x 20'  
38mm x .635mm x 6m
- 4" x .047" x 10'  
100mm x 1,2mm x 3m
- 3/4" x .090" x 10'  
19mm x 2,3mm x 3m
- 1 1/2" x .090" x 10'  
38mm x 2,3mm x 3m

**DESCRIPTION:** VM Tapes are made of self-fusing, insulating rubber laminated to a tough, all-weather vinyl. Designed to easily mold around irregular shapes and seal to all clean surfaces. VM Tapes are ideal for sealing, insulating and padding electrical connections up to 600V. Provide excellent cathodic protection for direct buried or submerged applications. Tough vinyl backing is impervious to ozone, water, soil and corrosive chemicals.

VM Tape - Revision A 9/97

### SPECIFICATIONS:

| PROPERTY              | VALUE                | UNIT   | TEST METHOD |
|-----------------------|----------------------|--------|-------------|
| <b>PHYSICAL</b>       |                      |        |             |
| Operating Temperature |                      |        |             |
| Continuous            | 90                   | °C     | ASTM-D-4388 |
| Emergency overload    | 120                  | °C     |             |
| <b>CHEMICAL</b>       |                      |        |             |
| Water Absorption      | 0.10                 | %      | ASTM-D-570  |
| Copper Corrosion      | None                 | Visual | ASTM-D-69   |
| Ozone Resistance      | Pass                 | Visual | ASTM-D-4325 |
| UV Resistance         | Pass                 | Visual | ASTM-D-4325 |
| <b>ELECTRICAL</b>     |                      |        |             |
| Dielectric Strength   | 19.7                 | kV/mm  | ASTM-D-4325 |
| Dielectric Constant   | 3.2                  | -      | ASTM-D-4325 |
| Dissipation Factor    | 0.025                | -      | ASTM-D-4325 |
| Volume Resistivity    | 1 x 10 <sup>15</sup> | ohm-cm | ASTM-D-4325 |

(1) 500 V/mil when tested on a .020 in. (.508mm) thick specimen. Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own test to determine the product's suitability for the intended use.

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# W962 EPR High Voltage Tape

## INSULATING AND JACKETING TAPE FOR USE THRU 138KV

- Self-amalgamating
- Outstanding corona and ozone resistance
- Superior electrical properties
- UV Resistant
- Excellent moisture, corrosion and chemical resistance
- Resistant to cable impregnants

**RECOMMENDED USES:** For insulating and jacketing of splices on power cable from 600 volts through 138,000 volts and for building stress cones and jacketing of terminations on power cable from 600 volts through 35,000 volts. A major component in transition joint construction.

### STANDARD SIZES:

- 3/4 in. x 30 ft., 19mm x 9.1m
- 1 in. x 30 ft., 25mm x 9.1mm
- 1 1/2in. x 30 ft., 38mm x 9.1mm
- 2 in. x 30 ft., 51mm x 9.1m

**DESCRIPTION:** W962 is an ethylene propylene rubber based high voltage tape possessing superior electrical, chemical, mechanical and thermal properties. W962 is a self-amalgamating tape that fuses quickly yielding a void-free, electrically stable build-up. W962 is a high performance tape that has outstanding corona and ozone resistance, low dielectric constant and high dielectric strength. W962 is compatible with all extruded dielectric cable insulations.

W962 2/95

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## SPECIFICATIONS:

| PROPERTY               | VALUE              | UNIT             | TEST METHOD   |
|------------------------|--------------------|------------------|---------------|
| <b>PHYSICAL</b>        |                    |                  |               |
| Color                  | Black              | -                | -             |
| Thickness              | 0.020              | inch             | ASTM-D-4325   |
|                        | 0.508              | mm               |               |
| Tensile Strength       | 450                | psi              | ASTM-D-4325   |
| Elongation             | 920                | %                | ASTM-D-4325   |
| Fusion Heat Resistance | 5/64 max.          | inch             | ASTM-D-4325   |
| Operating Temperature  | 130                | °C               | ASTM-D-4325   |
| Continuous             | 90                 | °C               | ASTM-D-4388   |
| Emergency Overload     | 130                | °C               | ASTM-D-4388   |
| <b>CHEMICAL</b>        |                    |                  |               |
| Water Absorption       | 0.02               | %                | ASTM-D-570    |
| Ozone Resistance       | Pass               | Visual           | ASTM-D-4325   |
| UV Resistance          | Pass               | Visual           | ASTM-D-4325   |
| <b>ELECTRICAL</b>      |                    |                  |               |
| Dielectric Strength    | 950                | V/mil            | ASTM-D-4325   |
| Dielectric Constant    | 24h @ 23°C         | 2.6              | ASTM-D-4325   |
|                        | 168h @ 70°C        | 2.6              | ASTM-D-4325   |
|                        | Dissipation Factor |                  |               |
| 24h @ 23°C             | 0.001              | -                | ASTM-D-4325   |
| 168h @ 70°C            | 0.005              | -                | ASTM-D-4325   |
| Volume Resistivity     | 96h @ 23°C         |                  |               |
|                        | 50% RH             | 10 <sup>16</sup> | ohm-cm        |
|                        | 96h @ 23°C         |                  |               |
| 96% RH                 | 10 <sup>15</sup>   | ohm-cm           | ASTM-D-4325   |
| U-Bend                 | >1000              | hours            | IPCEA S-19-81 |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.



# W963 Plysafe® EPR High Voltage Tape

## INSULATING AND JACKETING TAPE FOR USE THRU 69KV

- 1 Self-amalgamating
- 1 Outstanding corona and ozone resistance
- 1 UV Resistant
- 1 Excellent moisture, corrosion and chemical resistance

**RECOMMENDED USES:** For insulating and jacketing of splices on power cable from 600 volts through 69,000 volts and for building stress cones and jacketing of terminations on power cable from 600 volts thru 35,000 volts. Moisture seal for all water-proofing needs and insulating and protecting bus components. Due to its high stable mechanical and chemical properties, W963 Plysafe is ideal for cable jacket repair and restoration.

### STANDARD SIZES:

- 1 3/4 in. x 30 ft.  
19mm x 9m
- 1 1 in. x 30 ft.  
25mm x 9mm
- 1 1 1/2 in. x 30 ft.  
38mm x 9mm
- 1 2 in. x 30 ft.  
51mm x 9m
- 1 2 in. x 33 ft.  
50mm x 10m

**DESCRIPTION:** W963 is an ethylene propylene rubber based high voltage tape possessing excellent electrical, chemical, and physical properties. W963 Plysafe is a self-amalgamating tape that maintains a tight insulation build-up for void free electrical stability and permanent resistance to moisture penetration. The excellent stretch of W963 Plysafe permits fast taping speeds and uniform build-up with normal taping techniques. W963 Plysafe is compatible with all extruded dielectric cable insulations.

## SPECIFICATIONS

| PROPERTY              | VALUE            | UNIT   | TEST METHOD   |
|-----------------------|------------------|--------|---------------|
| <b>PHYSICAL</b>       |                  |        |               |
| Color                 | Black            | -      | -             |
| Thickness             | 0.030            | inch   | ASTM-D-4325   |
|                       | 0.762            | mm     |               |
| Tensile Strength      | 350              | psi    | ASTM-D-4325   |
| Elongation            | 750              | %      | ASTM-D-4325   |
| Fusion                | 5/64 max.        |        | inch          |
| ASTM-D-4325           |                  |        |               |
| Heat Resistance       | 130              | °C     | ASTM-D-4325   |
| Operating Temperature |                  |        |               |
| Continuous            | 90               | °C     | ASTM-D-4388   |
| Emergency Overload    | 130              | °C     | ASTM-D-4388   |
| <b>CHEMICAL</b>       |                  |        |               |
| Water Absorption      | 0.06             | %      | ASTM-D-570    |
| Ozone Resistance      | Pass             | Visual | ASTM-D-4325   |
| UV Resistance         | Pass             | Visual | ASTM-D-4325   |
| <b>ELECTRICAL</b>     |                  |        |               |
| Dielectric Strength   | 750              | V/mil  | ASTM-D-4325   |
| Dielectric Constant   |                  |        |               |
| 24h @ 23°C            | 2.7              | -      | ASTM-D-4325   |
| 168h @ 70°C           | 2.9              | -      | ASTM-D-4325   |
| Dissipation Factor    |                  |        |               |
| 24h @ 23°C            | 0.005            | -      | ASTM-D-4325   |
| 168h @ 70°C           | 0.015            | -      | ASTM-D-4325   |
| Volume Resistivity    |                  |        |               |
| 96h @ 28°C,<br>50%RH  | 10 <sup>16</sup> | ohm-cm | ASTM-D-4325   |
| 96h @ 23°C,<br>96%RH  | 10 <sup>15</sup> | ohm-cm | ASTM-D-4325   |
| U-Bend                | >1000            | hours  | IPCEA S-19-81 |

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W963 12/96



# L969 Plyvolt<sup>®</sup> Linerless EPR High Voltage Tape

## INSULATING AND JACKETING TAPE FOR USE THRU 69KV

- Linerless
- Self-bonding
- Outstanding corona and ozone resistance
- UV Resistant
- Excellent moisture, corrosion and chemical resistance

**RECOMMENDED USES:** For insulating and jacketing of splices on power cable from 600 volts through 69,000 volts and for building stress cones and jacketing of terminations on power cable from 600 volts through 35,000 volts. Insulate and protect bus bars and joints.

### STANDARD SIZES:

- 3/4 in. x 30 ft.  
19mm x 9m
- 1 in. x 30 ft.  
25mm x 9m
- 1 1/2 in. x 30 ft.  
38mm x 9m
- 2 in. x 30 ft.  
51mm x 9m

**DESCRIPTION:** L969 Plyvolt is an ethylene propylene rubber based high voltage tape possessing excellent electrical, chemical and physical properties. L969 is a linerless, self-bonding tape that permits much quicker taping speeds than a tape with a liner and yields a uniform, void-free build-up. The excellent stretch of L969 Plyvolt allows conformability to the most complex shape and contour. L969 Plyvolt is compatible with all extruded dielectric cable insulations.

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### SPECIFICATIONS:

| PROPERTY              | VALUE       | UNIT             | TEST METHOD        |
|-----------------------|-------------|------------------|--------------------|
| <b>PHYSICAL</b>       |             |                  |                    |
| Color                 | Black       | -                | -                  |
| Thickness             | 0.030       | inch             | ASTM-D-4325        |
|                       | 0.762       | mm               |                    |
| Tensile Strength      | 400         | psi              | ASTM-D-4325        |
| Elongation            | 760         | %                | ASTM-D-4325        |
| Fusion                | 5/64 max.   | inch             | ASTM-D-4325        |
| Heat Resistance       | 130         | °C               | ASTM-D-4325        |
| Operating Temperature |             |                  |                    |
| Continuous            | 90          | °C               | ASTM-D-4388        |
| Emergency Overload    | 130         | °C               | ASTM-D-4388        |
| <b>CHEMICAL</b>       |             |                  |                    |
| Water Absorption      | 0.06        | %                | ASTM-D-570         |
| Ozone Resistance      | Pass        | Visual           | ASTM-D-4325        |
| UV Resistance         | Pass        | Visual           | ASTM-D-4325        |
| <b>ELECTRICAL</b>     |             |                  |                    |
| Dielectric Strength   | 780         | V/mil            | ASTM-D-4325        |
| Dielectric Constant   | 24h @ 23°C  | 2.7              | ASTM-D-4325        |
|                       | 168h @ 70°C | 2.9              | ASTM-D-4325        |
|                       |             |                  |                    |
| Dissipation Factor    | 24h @ 23°C  | 0.005            | ASTM-D-4325        |
|                       | 168h @ 70°C | 0.015            | ASTM-D-4325        |
|                       |             |                  |                    |
| Volume Resistivity    | 96h @ 23°C  |                  |                    |
|                       | 50% RH      | 10 <sup>16</sup> | ohm-cm ASTM-D-4325 |
|                       | 96h @ 23°C  |                  |                    |
|                       | 96% RH      | 10 <sup>15</sup> | ohm-cm ASTM-D-4325 |
| U-Bend                | >1000       | hours            | IPCEA S-19-81      |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.



# 3 Bi-Seal<sup>®</sup> 20 Polyethylene & EPR High Voltage Tape

## INSULATING AND JACKETING TAPE FOR USE THRU 69KV

- Self-amalgamating
- Superior corona and ozone resistance
- UV Resistant
- Excellent moisture, corrosion and chemical resistance
- Excellent temperature characteristics

**RECOMMENDED USES:** For insulating and jacketing of splices on power cable from 600 volts through 69,000 volts and for building stress cones and jacketing of terminations on power cable from 600 volts through 35,000 volts. Insulating electronic circuits and sealing service entrance connections and conduit couplings.

### STANDARD SIZES:

- 3/4 in. x 30 ft.  
19mm x 9m
- 1 in. x 30 ft.  
25mm x 9m
- 1 1/2 in. x 30 ft.  
38mm x 9m
- 2 in. x 30 ft.  
51mm x 9m

**DESCRIPTION:** 3 Bi-Seal 20 is a polyethylene and ethylene propylene rubber based tape possessing superior electrical, chemical, mechanical and thermal properties. 3 Bi-Seal 20 is a self-amalgamating tape that fuses quickly yielding a void free, electrically stable build-up. 3 Bi-Seal 20 is compatible with all extruded dielectric cable insulations.

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### SPECIFICATIONS:

| PROPERTY              | VALUE            | UNIT   | TEST METHOD        |
|-----------------------|------------------|--------|--------------------|
| <b>PHYSICAL</b>       |                  |        |                    |
| Color                 | Black            | -      | -                  |
| Thickness             | 0.020            | inch   | ASTM-D-4325        |
|                       | 0.508            | mm     |                    |
| Tensile Strength      | 450              | psi    | ASTM-D-4325        |
| Elongation            | 860              | %      | ASTM-D-4325        |
| Fusion                | 5/64 max.        | inch   | ASTM-D-4325        |
| Heat Resistance       | 130              | °C     | ASTM-D-4325        |
| Operating Temperature | 90               | °C     | ASTM-D-4388        |
|                       |                  |        | Emergency Overload |
| Emergency Overload    | 130              | °C     | ASTM-D-4388        |
| <b>CHEMICAL</b>       |                  |        |                    |
| Water Absorption      | 0.02             | %      | ASTM-D-570         |
| Ozone Resistance      | Pass             | Visual | ASTM-D-4325        |
| UV Resistance         | Pass             | Visual | ASTM-D-4325        |
| <b>ELECTRICAL</b>     |                  |        |                    |
| Dielectric Strength   | 900              | V/mil  | ASTM-D-4325        |
| Dielectric Constant   | 2.7              | -      | ASTM-D-4325        |
|                       |                  |        | 168h @ 70°C        |
|                       |                  |        | 2.9                |
| Dissipation Factor    | 0.003            | -      | ASTM-D-4325        |
|                       |                  |        | 168h @ 70°C        |
|                       |                  |        | 0.008              |
| Volume Resistivity    | 10 <sup>16</sup> | ohm-cm | ASTM-D-4325        |
|                       |                  |        | 50% RH             |
|                       |                  |        | 96% RH             |
| U-Bend                | 10 <sup>15</sup> | ohm-cm | ASTM-D-4325        |
|                       |                  |        | >1000              |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.

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# 3 Bi-Seal® 30 Polyethylene & EPR High Voltage Tape

## INSULATING AND JACKETING TAPE FOR USE THRU 69KV

- Self-amalgamating
- Superior corona and ozone resistance
- UV Resistant
- Excellent moisture, corrosion and chemical resistance
- Excellent temperature characteristics

**RECOMMENDED USES:** For insulating and jacketing of splices on power cable from 600 volts through 69,000 volts and for building stress cones and jacketing of terminations on power cable from 600 volts through 35,000 volts. Insulating electronic circuits and sealing service entrance connections and conduit couplings.

### STANDARD SIZES:

- 3/4 in. x 30 ft.  
19mm x 9m
- 1 in. x 30 ft.  
25mm x 9m
- 1 1/2 in. x 30 ft.  
38mm x 9m
- 2 in. x 30 ft.  
51mm x m

**DESCRIPTION:** 3 Bi-Seal 30 is a polyethylene and ethylene propylene rubber based tape possessing superior electrical, chemical, mechanical and thermal properties. 3 Bi-Seal 30 is a self-amalgamating tape that fuses quickly yielding a void free, electrically stable build-up. 3 Bi-Seal 30 is compatible with all extruded dielectric cable insulations.

3Bi-30  
12/96

**LIMITED WARRANTY:** Plymouth warrants that its Product will substantially conform to that products written specifications exclusively contained in its Plymouth product data sheet for a period of one (1) year from the date of shipment, (Unless provided otherwise in product's data sheet). Plymouth makes no warranty to the distributor, its customers, or the product's end user for the products merchantability and/or suitability for his/its intended use or purpose, and buyer shall assume all risks associated therewith. Provided that the product is proved to be defective within the terms described above, and provided buyer shall have first complied with all return policies of Plymouth, PLYMOUTH'S SOLE OBLIGATION AND BUYER'S EXCLUSIVE REMEDY UNDER THIS PRODUCT WARRANTY SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT AS IS PROVED TO BE DEFECTIVE WITHIN THE TIME PERIOD SPECIFIED ABOVE. EXCEPT AS EXPRESSLY SET FORTH HEREIN, PLYMOUTH MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. In no event shall Plymouth be liable for collateral, consequential, indirect or incidental damages arising out of, or connected in any way with the supply of products.

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## SPECIFICATIONS:

| PROPERTY              | VALUE            | UNIT   | TEST METHOD        |
|-----------------------|------------------|--------|--------------------|
| <b>PHYSICAL</b>       |                  |        |                    |
| Color                 | Black            | -      | -                  |
| Thickness             | 0.030            | inch   | ASTM-D-4325        |
|                       | 0.762            | mm     |                    |
| Tensile Strength      | 450              | psi    | ASTM-D-4325        |
| Elongation            | 860              | %      | ASTM-D-4325        |
| Fusion                | 5/64 max.        | inch   | ASTM-D-4325        |
| Heat Resistance       | 130              | °C     | ASTM-D-4325        |
| Operating Temperature | 90               | °C     | ASTM-D-4388        |
|                       |                  |        | Emergency Overload |
| Emergency Overload    | 130              | °C     | ASTM-D-4388        |
| <b>CHEMICAL</b>       |                  |        |                    |
| Water Absorption      | 0.02             | %      | ASTM-D-570         |
| Ozone Resistance      | Pass             | Visual | ASTM-D-4325        |
| UV Resistance         | Pass             | Visual | ASTM-D-4325        |
| <b>ELECTRICAL</b>     |                  |        |                    |
| Dielectric Strength   | 900              | V/mil  | ASTM-D-4325        |
| Dielectric Constant   | 2.7              | -      | ASTM-D-4325        |
|                       |                  |        | 24h @ 23°C         |
|                       |                  |        | 168h @ 70°C        |
| Dissipation Factor    | 0.003            | -      | ASTM-D-4325        |
|                       |                  |        | 24h @ 23°C         |
|                       |                  |        | 168h @ 70°C        |
| Volume Resistivity    | 10 <sup>16</sup> | ohm-cm | ASTM-D-4325        |
|                       |                  |        | 50% RH             |
|                       |                  |        | 96h @ 23°C         |
| Volume Resistivity    | 10 <sup>15</sup> | ohm-cm | ASTM-D-4325        |
|                       |                  |        | 96% RH             |
| U-Bend                | >1000            | hours  | IPCEA S-19-81      |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.



# 15 Plybraid® Copper Shielding Braid

## FOR SHIELDING HIGH VOLTAGE SPLICES AND TERMINATIONS

- Tinned All-Copper Construction
- Knitted for greater conformability
- Easy and faster to apply

RECOMMENDED USES: Insulation shielding for splices and terminations of shielded cables.

### STANDARD SIZES:

- 1 in. x 15 ft.  
25 mm x 5m
- 1 in x 100 ft.  
25 mm x 31m

DESCRIPTION: 15 Plybraid is an all-copper knit-mesh designed to allow excellent conformability when hand-applied in the field. Special knit design allows easy application and provides positive metallic shielding.

15Ply 12/96

### SPECIFICATIONS:

| PROPERTY        | VALUE | UNIT    | TEST METHOD |
|-----------------|-------|---------|-------------|
| <b>PHYSICAL</b> |       |         |             |
| Resistance      |       |         |             |
| Max.            | 0.10  | ohms/ft | *BTM-518    |

\* BTM denotes Bishop Test Method where no industry standard is available. Details are available upon request.

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# 17 Plyshield® EPR Shielding Tape

## FOR SHIELDING HIGH VOLTAGE SPLICES AND TERMINATIONS

- 1 Self-amalgamating
- 1 Good conducting properties
- 1 Easy to apply
- 1 UV resistant

**RECOMMENDED USES:** For electro-static shielding on high voltage splices and terminations. Filling indents in compression connectors and rebuilding strand shielding on high voltage splices. Shielding bus and overhead connections.

### STANDARD SIZES:

- 1 3/4 in x 15 ft.  
19mm x 4.6m

Consult factory for other sizes.

**DESCRIPTION:** 17 Plyshield is an ethylene propylene rubber based, self amalgamating and conducting tape. Its unsupported construction makes it ideal for use on power cable where accommodation of expansion and contraction due to load cycling is important. The excellent stretch of 17 Plyshield allows conformability to complex shapes. 17 Plyshield is compatible with all extruded dielectric cable insulations.

17Ply 12/96

### SPECIFICATIONS:

| PROPERTY              | VALUE              | UNIT                | TEST METHOD |
|-----------------------|--------------------|---------------------|-------------|
| <b>PHYSICAL</b>       |                    |                     |             |
| Color                 | Black              | -                   | -           |
| Thickness             | 0.030              | inch                | ASTM-D-4325 |
|                       | 0.762              | mm                  |             |
| Tensile Strength      | 225                | lbs/in              | ASTM-D-4325 |
| Elongation            | 500                | %                   | ASTM-D-4325 |
| Fusion                | 5/64 max.          | inch                | ASTM-D-4325 |
| Operating Temperature | Continuous         | 90                  | °C          |
|                       | Emergency overload | 130                 | °C          |
| <b>CHEMICAL</b>       |                    |                     |             |
| Water Absorption      | 0.02               | %                   | ASTM-D-570  |
| UV Resistance         | Pass               | Visual              | ASTM-D-4325 |
| <b>ELECTRICAL</b>     |                    |                     |             |
| Volume Resistivity    | 96h @ 23°C         |                     |             |
|                       | 50% RH             | 870                 | ohm-cm      |
|                       | 168h @ 90°C        | 1 x 10 <sup>4</sup> | ohm-cm      |

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# 20 Pysil® Silicone Rubber Tape

## TRACKING AND WEATHER RESISTANT TAPE FOR COVERING TERMINATIONS THRU 69kV

- Unique triangular cross-section
- Self-amalgamating
- 180°C (356°F) temperature rating
- UV resistant
- Oil resistant
- Center line for half-lapping guide

**RECOMMENDED USES:** For jacketing of high voltage terminations on extruded dielectric cables thru 69,000 volts. For insulating high temperature silicone insulated cables. A positive oil stop in the construction of transition splices.

### STANDARD SIZES:

- 1 in x 30 ft.  
25mm x 9m

**DESCRIPTION:** 20 Pysil is a self-amalgamating, chemically cross-linked silicone rubber tape, triangular in cross-section and featuring a centerline for precise half-lapping. Track and erosion resistant, 20 Pysil fuses into a solid mass within minutes of application. 20 Pysil employs no adhesive coating, offering a non-contaminating self-cleaning surface which maintains a high tracking resistance. 20Pys 12/96

### SPECIFICATIONS:

| PROPERTY            | VALUE                | UNIT    | TEST METHOD |
|---------------------|----------------------|---------|-------------|
| <b>PHYSICAL</b>     |                      |         |             |
| Color               | *Grey                | -       | -           |
| Thickness: Peak     | 0.020                | inch    | ASTM-D-2148 |
|                     | 0.508                | mm      |             |
| Edge                | 0.007                | inch    | ASTM-D-1000 |
|                     | 0.178                | mm      |             |
| Tensile Strength    | 10                   | lbs/in  | ASTM-D-1000 |
| Elongation          | 400                  | %       | ASTM-D-1000 |
| Fusion              | 2                    | inch    | ASTM-D-1000 |
| <b>CHEMICAL</b>     |                      |         |             |
| Copper Corrosion    | None                 | Visual  | ASTM-D-69   |
| <b>ELECTRICAL</b>   |                      |         |             |
| Dielectric Strength | 600                  | V/mil   | ASTM-D-2148 |
| Dielectric Constant | 3.0                  | -       | ASTM-D-4325 |
| Dissipation Factor  | 0.002                | -       | ASTM-D-4325 |
| Track Resistance    | 1000                 | hour    | ASTM-D-2132 |
| Volume Resistivity  | 3 x 10 <sup>14</sup> | ohms-cm | ASTM-D-4325 |

\*Conforms to Munsell Color 5BG7 7.0/0.4 - Sky Blue Grey

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# 44 Neoprene Jacketing Tape

## For Permanent Cable Jacketing

- Self-amalgamating
- Excellent conformability
- Flame Resistant
- Resists acids and chemicals
- Resists oils, grease and hydrocarbons
- Protects against ozone, heat, moisture and sunlight
- Limited storage life (9 months)

**RECOMMENDED USES:** As a jacketing tape for use on neoprene jacketed cables and for corrosion protection on lead splicing sleeves.

### STANDARD SIZES:

- 3/4 in.x 30 ft.  
19mm x 9m
- 1 in. x 30 ft.  
25mm x 9m
- 1 1/2in. x 30 ft.  
38mm x 9m
- 2 in. x 30 ft.  
51mm x 9m

**DESCRIPTION:** 44 Neoprene is a self-amalgamating neoprene jacketing tape especially formulated for protecting cables against oil, grease and other hydrocarbons. It is chemical and weather resistant and readily conforms to to irregular contours forming a permanent and lasting protective outer sheath.

Neo-44 2/00 Rev. B

## SPECIFICATIONS:

| PROPERTY          | VALUE                | UNIT   |             |
|-------------------|----------------------|--------|-------------|
| TEST METHOD       |                      |        |             |
| <b>PHYSICAL</b>   |                      |        |             |
| Color             | Black                | -      | -           |
| Thickness         | 0.030                | inch   | ASTM-D-4325 |
|                   | 0.762                | mm     |             |
| Tensile Strength  | 450                  | psi    | ASTM-D-4325 |
| Elongation        | 450                  | %      | ASTM-D-4325 |
| Fusion            | 5/64 max.            | inch   | ASTM-D-4325 |
| <b>CHEMICAL</b>   |                      |        |             |
| Ozone             |                      |        |             |
| Resistance        | Pass                 | Visual | ASTM-D-4325 |
| Weathering        | 100                  | Hour   | Mil R900A   |
| Acid and Alkali   | Pass                 | Visual | *BTM 814    |
| Flammability      | 2 max.               | Inch   | UL 44       |
| <b>ELECTRICAL</b> |                      |        |             |
| Dielectric        |                      |        |             |
| Strength          | 450                  | V/mil  | ASTM-D-4325 |
| Dielectric        |                      |        |             |
| Constant          | 5.8                  | -      | ASTM-D-4325 |
| Dissipation       |                      |        |             |
| Factor            | 0.01                 | -      | ASTM-D-4325 |
| Volume            |                      |        |             |
| Resistivity       | $9.5 \times 10^{12}$ | ohm-cm | ASTM-D-4325 |

\*BTM - denotes Bishop Test Method where no industry standard is applicable. Details available upon request.

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# 53 Plyarc<sup>®</sup> Arc and Fire Proofing Tape

## FOR ARC AND FIRE PROOFING HIGH VOLTAGE AND COMMUNI- CATION CABLES AND SPLICES

- Superior arc and flame resistance
- Resistant to water, sewage, chemical and oil
- UV Resistant
- Highly flexible and conformable
- Easy to apply

**RECOMMENDED USES:** For arc and fire proofing all types of cable and cable splices in manholes, cable trays, switch boxes, vaults and substations.

### STANDARD SIZES:

- 1 in. x 20 ft.  
25mm x 6m
- 1 1/2in. x 20 ft.  
38mm x 6m
- 2 in. x 20 ft.  
51mm x 6m
- 3 in. x 20 ft.  
76mm x 6m

**DESCRIPTION:** 53 Plyarc is an unsupported, linerless, elastomeric tape possessing superior arc and flame resistance for cable protection in all types of applications. Unsupported construction offers excellent flexibility and conformability for easy application. When subjected to severe flame conditions, 53 Plyarc will generate a thermally insulating residue for cable protection. 53 Plyarc is water, chemical and UV resistant.

### SPECIFICATIONS:

| PROPERTY             | VALUE                  | UNIT                   | TEST METHOD          |
|----------------------|------------------------|------------------------|----------------------|
| <b>PHYSICAL</b>      |                        |                        |                      |
| Color                | Grey                   | -                      | -                    |
| Thickness            | 0.030                  | inch                   | ASTM-D-1000          |
|                      | 0.762                  | mm                     |                      |
| Tensile Strength     | 40                     | lb/in                  | ASTM-D-1000          |
| Elongation           | 300                    | %                      | ASTM-D-1000          |
| Thermal Conductivity | 18.3                   | BTU                    | ASTM-C-177           |
|                      |                        | Hr-Ft <sup>2</sup> -°F |                      |
| <b>CHEMICAL</b>      |                        |                        |                      |
| Tidewater Resistance | Pass                   | -                      | Con-Ed EO<br>5343-14 |
| Chemical Resistance  | None                   | -                      | *BTM-814             |
| <b>ELECTRICAL</b>    |                        |                        |                      |
| Dielectric Strength  | 15,000                 | volts                  | ASTM-D-1000          |
| Resistivity          | 4.4 x 10 <sup>13</sup> | ohms                   | ASTM-D-257           |
| Flammability         |                        |                        |                      |
| Bunsen Burner        | Pass                   | -                      | Con-Ed EO<br>5343-14 |
| Propane Torch        | Pass                   | -                      | Con-Ed EO<br>5343-14 |
| Plasma Torch         | >110                   | seconds                | Con-Ed EO<br>5343-14 |

\*BTM - denotes Bishop Test Method where no industry standard is applicable. Details available upon request.

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.

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Revised 1/95

53Ply Revised 12/96



## 77 Plyglas® Glass Cloth Tape

### HIGH TEMPERATURE RESIS- TANT AND HIGH MECHANICAL STRENGTH TAPE

- Service temperature of 130°C
- Thermosetting adhesive
- Abrasion resistant

**RECOMMENDED USES:** For insulating and protecting high temperature connections on solid dielectric cable thru 600 volts. Securing 53 Plyarc, Arc and Fire Proofing Tape where adhesion at high temperatures is required. Binding and harnessing applications.

#### STANDARD SIZES:

- 1/2 in.x 66 ft.  
13mm x 20m
- 3/4 in. x 66 ft.  
19mm x 20m
- 1 in. x 108 ft.  
25mm x 33m

Ply77 Revised  
3/96

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**DESCRIPTION:** 77 Plyglas is a woven glass fabric tape with a thermosetting rubber based pressure-sensitive adhesive. It has high tensile strength, and provides excellent tear and abrasion resistance with a service temperature rating of 130°C.

#### SPECIFICATIONS:

| PROPERTY              | VALUE | UNIT    | TEST METHOD |
|-----------------------|-------|---------|-------------|
| <b>PHYSICAL</b>       |       |         |             |
| Color                 | White | -       | -           |
| Thickness             | 0.007 | inch    | ASTM-D-1000 |
|                       | 0.178 | mm      |             |
| Tensile Strength      | 170   | lb/in.  | ASTM-D-1000 |
| Elongation            | 5     | %       | ASTM-D-1000 |
| Adhesion              | 16    | oz/in   | ASTM-D-1000 |
| <b>ELECTRICAL</b>     |       |         |             |
| Dielectric Strength   | 2,500 | volts   | ASTM-D-1000 |
| Insulation Resistance | 5,000 | megohms | ASTM-D-1000 |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.



## Plyflex® Low Voltage Splice Kit

### LOW VOLTAGE SPLICE KIT

- 1000V Service
- One waterproof splice per kit
- All applications including direct burial
- No mixing or pouring, no set-up time
- Splice area stays flexible
- Splice is re-enterable

**RECOMMENDED USES:** For insulating and waterproofing all types of splices and terminations on extruded dielectric cable through 1000V. Suitable for direct burial straight and branch joints. Recommended for:

- Street lighting
- Portable cable splices
- Odd shaped splices
- Submersed locations
- Cable jacket repair
- Motor lead splices
- Overhead and direct burial

### SIZES:

- To 500 kCMIL Inline Splice
- To 4/0 AWG Wye Splice

**DESCRIPTION:** Plyflex Splice Kit utilizes a series of rubber pads and vinyl tape to yield a completely insulated and waterproof splice through 1000V. Each kit contains mastic pads to provide primary insulation and waterproofing, a reinforcing pad to capture mastic and provide mechanical protection, and final overwrap of Premium 85 CW Vinyl Tape. Plyflex installs quickly at any temperature with no set-up time, and maintains flexibility.

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# Plycast Splicing Kits

## RESIN SPLICING KITS

- Waterproof and dustproof
- Tough, buriable shell
- Rated to: 5kV for straight splices, 600V for wye splices, and 1000V using flexible mold
- Rapid curing, low viscosity resin

**RECOMMENDED USES:** Splicing non-shielded cable connections for outdoor, direct burial, and submersed applications. Can be used to repair partially damaged cable.

**DESCRIPTION:** Plycast Kits use epoxy resin and either a plastic two-part mold or a flexible rubber mold to complete a splice.

The two-part mold is snapped together over the completed splice connection. Mastic seals off the ends of the mold and epoxy is poured in to set. High Voltage tape is included for use on 5kV splices.

The flexible mold is formed around a splitbolt or multi-tap connection, and the epoxy is poured in to set.

Plyc 3/95

| CAT. NO.    | TYPE      | RANGE  |
|-------------|-----------|--|
| <b>2636</b> | Wye       | Connector to 1/0 max with split bolt, 2/0 max with crimped; Cable O.D. main to 13/16" max. run to 3/8" max |
| <b>2638</b> | Straight  | up to #2 AWG; connector O.D. up to 13/32"; cable O.D. to 5/8"  |
| <b>2640</b> | Straight  | between #2 AWG and 3/0; connector O.D. up to 5/8"; cable O.D. to 1"  |
| <b>2641</b> | Multi-Tap | up to 4/0 AWG - Straight; up to 1/0 AWG - Wye  |
| <b>2642</b> | Multi-Tap | up to 500 kCMIL - Straight; up to 4/0 AWG - Wye  |

**2636:** Kit contains rigid wye mold, epoxy and tapes which provide a tough, waterproof, dustproof seal. For wye splicing up to 600 Volts. Connectors not included.

**2638-2640:** Kit contains a rigid mold, epoxy and tape which provide a tough, waterproof, dustproof seal. For splicing up to 5kV. Connectors not included.

**2641-2642:** Kit contains a flexible mold, epoxy, and tape for a waterproof, dustproof seal. For splicing up to 1000 Volts. Mold accommodates splitbolt, T's, wyes, taps, and straight splices. Connectors not included.

## RESIN SET-UP TIME

| Ambient Temperature, °F | Minutes: 112 Gram Size #2638, 2641 | Minutes: 286 Gram Size #2640, 2642 | Minutes: 185 Gram Size, #2636 |
|-------------------------|------------------------------------|------------------------------------|-------------------------------|
| 100°F                   | 8                                  | 9                                  | 8                             |
| 90°F                    | 11                                 | 12                                 | 11                            |
| 75°F                    | 14                                 | 20                                 | 16                            |
| 50°F                    | 45                                 | 60                                 | 51                            |
| 40°F                    | 57                                 | 102                                | 87                            |

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# Plyjoint® Cable Splice Kit

## FOR SPLICING HIGH VOLTAGE SHIELDED POWER CABLE 5-15 KV

- For all extruded dielectric cables
- Quick, easy pennant design
- For direct burial
- Meets IEEE Standard No. 404

**RECOMMENDED USES:** For splicing all types of extruded dielectric shielded power cable from 5,000 volts through 15,000 volts. Each kit makes one single conductor splice.

**DESCRIPTION:** Plyjoint® Cable Splice Kits utilize EPR High Voltage Pennants and L969 Plyvolt Linerless EPR High Voltage Tape to splice single conductor shielded power cable. Pennant design yields a pre-engineered splice minimizing measuring and guesswork and L969 Plyvolt Linerless tape permits fast insulation build-up. Each kit contains EPR High Voltage Pennants, L969 Plyvolt Linerless EPR High Voltage Tape, 17 Plyshield® EPR Shielding Tape, 15 Plybraid®, Premium 85 CW Vinyl Tape, abrasive cloth, cleaning solvent wipes, and copper grounding braid. Plyj Revised 12/96

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**SPLICE RATINGS:** Plyjoint® Splice Kits meet or exceed IEEE No. 404 Standard for cable joints.

| Insulation Class                         | 5kV | 8kV  | 15kV |
|--|-----|------|------|
| BIL KV                                   | 75  | 95   | 110  |
| CEV Corona Extinction Voltage KV (RMS)   | 4.3 | 6.9  | 13   |
| AC Withstand Voltage KV (RMS) 1 minute   | 18  | 23   | 35   |
| AC Withstand Voltage KV (RMS) 1 minute   | 27  | 34.5 | 52.5 |
| AC Withstand Voltage KV (RMS) 5 hours    | 18  | 23   | 35   |
| DC Withstand Voltage KV (RMS) 15 minutes | 35  | 45   | 70   |

### PLYJOINT® KIT SELECTION CHART

| NOMINAL SYSTEM<br>TORS<br>VOLTAGE | COPPER CONDUCTORS     |                 | ALUMINUM CONDUCTORS |                 |
|-----------------------------------|-----------------------|-----------------|---------------------|-----------------|
|                                   | 5kV-8kV<br>GN & UN    | 15kV<br>GN & UN | 5kV-8kV<br>GN & UN  | 15kV<br>GN & UN |
| Cable Insulation Type<br>RUBBER   | XLPE, PE, EPR, RUBBER |                 | XLPE, PE, EPR,      |                 |
| CONDUCTOR                         |                       |                 |                     |                 |
| AWG OR kCMIL                      |                       |                 |                     |                 |
| 6 AWG                             |                       |                 |                     |                 |
| 4 AWG                             |                       |                 |                     |                 |
| 2 AWG                             |                       |                 |                     |                 |
| 1 AWG                             |                       |                 |                     |                 |
| 1/0 AWG                           |                       |                 | 2664                | 2654            |
| 2/0 AWG                           |                       |                 |                     |                 |
| 3/0 AWG                           |                       |                 |                     |                 |
| 4/0 AWG                           |                       |                 |                     |                 |
| 250kCMIL                          |                       |                 | 2655                |                 |
| 300kCMIL                          |                       | 2654            |                     |                 |
| 350kCMIL                          | 2654                  |                 |                     | 2655            |
| 400kCMIL                          |                       |                 | 2656                |                 |
| 500kCMIL                          | 2655                  |                 |                     |                 |
| 600kCMIL                          |                       |                 |                     | 2656            |
| 750kCMIL                          |                       |                 |                     |                 |
| 800kCMIL                          |                       | 2656            |                     |                 |
| 1000kCMIL                         |                       | 2656            |                     |                 |



# SWS Stress-Wrap<sup>®</sup> Splice Kit

## FOR SPLICING HIGH VOLTAGE SHIELDED POWER CABLE 5-15 KV

- Reduced cable preparation
- No penciling of cable insulation
- Provides unique reliable stress control
- For direct burial
- Meets IEEE Standard No. 404

**RECOMMENDED USES:** For splicing all types of extruded dielectric shielded power cable from 5,000 volts through 15,000 volts. (Consult factory for uses above 15kV.) Each kit makes one single conductor straight splice for use in manholes, vaults and direct burial situations.

**DESCRIPTION:** SWS Stress-Wrap Splice Kits are a major advance in high voltage splice design. Stress-Wrap stress relief technology increases the reliability of the splice and also simplifies the cable preparation and splice construction. Penciling of the cable insulation is eliminated and standard non-tapered connectors can be used. Each kit contains Stress-Wrap Stress Relief Tape, L969 Plyvolt Linerless EPR High Voltage Tape, 17 Plyshield EPR Shielding Tape, 15 Plybraid, 10 Plyseal Mastic, Premium 85 CW Vinyl Tape, abrasive cloth, cleaning solvent wipes, and solderless grounding device.

**SPLICE RATINGS:** Stress-Wrap Splice Kits meet or exceed IEEE No. 404 Standard for cable joints.

| Insulation Class                         | 5kV | 8kV  | 15kV |
|--|-----|------|------|
| BII kV                                   | 75  | 95   | 110  |
| CEV Corona Extinction Voltage kV: (RMS)  | 4.3 | 6.9  | 13   |
| AC Withstand Voltage kV (RMS) 1 minute   | 18  | 23   | 35   |
| AC Withstand Voltage kV (RMS) 1 hour     | 27  | 34.5 | 52.2 |
| AC Withstand Voltage kV (RMS) 5 hours    | 18  | 23   | 35   |
| AC Withstand Voltage kV (RMS) 15 minutes | 35  | 45   | 70   |

## SWS KIT SELECTION CHART:

| SWS Stress-Wrap <sup>®</sup> Splice Kit |                |                        |                     |                |                              |        |  |
|---|----------------|------------------------|---------------------|----------------|------------------------------|--------|--|
| Copper Conductors                       |                | Nominal System Voltage | Aluminum Conductors |                | Cable Insulation Type        |        |  |
| 5 kV - 8 kV GN & UN                     | 15 kV GN & UN* |                        | 5 kV - 8 kV GN & UN | 15 kV GN & UN* |                              |        |  |
|   |                |                        |                     |                | XLPE, PE, EPR, RUBBER        | RUBBER |  |
|   |                |                        |                     |                | Conductor Size               |        |  |
|   |                |                        |                     |                | AWG or CkMIL mm <sup>2</sup> |        |  |
| SWS-A                                   | SWS-A          | 6 AWG                  | 13.30               | SWS-A          | SWS-A                        |        |  |
|   |                | 4 AWG                  | 21.15               |                |                              |        |  |
|   |                | 2 AWG                  | 33.62               |                |                              |        |  |
|   | 1 AWG          | 42.41                  | SWS-B               |                |                              | SWS-B  |  |
|   | 1/0 AWG        | 53.59                  |                     |                |                              |        |  |
|   | 2/0 AWG        | 67.98                  |                     |                |                              |        |  |
| SWS-B                                   | SWS-B          | 3/0 AWG                | 85.01               | SWS-B          | SWS-B                        |        |  |
|   |                | 4/0 AWG                | 107.20              |                |                              |        |  |
|   | SWS-C          | SWS-C                  | 250 kCMIL           | 127            | SWS-C                        | SWS-C  |  |
|   |                |                        | 300 kCMIL           | 152            |                              |        |  |
| SWS-C                                   | SWS-C          | 350 kCMIL              | 177                 | SWS-D          | SWS-D                        |        |  |
|   |                | 400 kCMIL              | 203                 |                |                              |        |  |
|   | 500 kCMIL      | 253                    |                     |                |                              |        |  |
|   | 600 kCMIL      | 309                    |                     |                |                              |        |  |
| SWS-D                                   | SWS-D          | 750 kCMIL              | 380                 |                |                              |        |  |
|   |                | 800 kCMIL              | 405                 |                |                              |        |  |
| SWS-D                                   | SWS-D          | 1000 kCMIL             | 507                 |                |                              |        |  |

\*Excluding cables with an insulation wall thickness above 300 mils.

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# Plymouth® PIB Medium Voltage Tape

## INSULATING AND JACKETING TAPE FOR USE THRU 46kV

- Self-amalgamating
- Outstanding Corona and ozone resistance
- UV resistant
- Excellent moisture, corrosion and chemical resistance

**RECOMMENDED USES:** For insulating and jacketing of splices on power cable from 600 volts through 46,000 volts and for building stress cones and jacketing of terminations on power cable from 600 volts thru 35,000 volts. Moisture seal for telephone joints and other waterproofing needs. Insulates and protects bus components.

### STANDARD SIZES:

- 19mm x 10m
- 25mm x 10m
- 38mm x 10m
- 50mm x 10m

**DESCRIPTION:** Plymouth PIB is a polyisobutylene based medium voltage tape possessing excellent electrical, chemical and physical properties. It is a self-amalgamating tape that maintains a tight insulation build-up for void-free electrical stability and permanent resistance to moisture penetration. The excellent stretch of Plymouth PIB tape permits fast taping speeds and uniform build-up with normal taping techniques. Plymouth PIB is compatible with all extruded dielectric cable insulations.

### SPECIFICATIONS:

| PROPERTY            | VALUE             | UNIT        | TEST METHOD |
|---------------------|-------------------|-------------|-------------|
| <b>PHYSICAL</b>     |                   |             |             |
| Color               | Black             | -           | -           |
| Thickness           | 0.020             | inch        | ASTM-D-4325 |
|                     | 0.5               | mm          |             |
| Tensile Strength    | 350               | psi         | ASTM-D-4325 |
|                     | 2.4               | MPA         |             |
| Elongation          | 700               | %           | ASTM-D-4325 |
| Fusion              | <5/64             | inch        | ASTM-D-4325 |
| Modulus @ 200%      | 145               | psi         | ASTM-D-4325 |
|                     | 1.0               | MPA         |             |
| Temperature Range   | -40 to 195        | °F          |             |
|                     | -40 to 90         | °C          |             |
| <b>CHEMICAL</b>     |                   |             |             |
| Water Absorption    | 0.02              | %           | ASTM-D-570  |
| Ozone Resistance    | Pass              | Visual      | ASTM-D-4325 |
| UV Resistance       | Pass              | Visual      | ASTM-D-4325 |
| <b>ELECTRICAL</b>   |                   |             |             |
| Dielectric Strength | 900               | V/mil       | ASTM-D-4325 |
| Dielectric Constant | 60HZ, 600V 2.5    | ASTM-D-4325 |             |
|                     |                   |             |             |
| Dissipation Factor  | 60HZ, 600V 0.002  | ASTM-D-4325 |             |
|                     |                   |             |             |
| Volume Resistivity  | >10 <sup>13</sup> | ohms-cm     | ASTM-D-4325 |

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# ColdTerm™ High Voltage Termination Kit

## NEW 35 KV DESIGN

### VERSATILE COLD SHRINK DESIGN FOR 5-35 KV TERMINATIONS

- Universal, compact design for all types of extruded dielectric cables
- Easy to install
- Anti-tracking silicone insulating tube
- Excellent stress relief
- Meets IEEE Standard 48

### DESCRIPTION:

**ColdTerm** Terminations are versatile terminators designed for quick, easy installation on all types of extruded dielectric cable constructions. A

**ColdTerm** Termination consists of a high dielectric constant stress relief tube and a molded silicone insulating tube assembled on a removable supporting core. When the core is removed, the **ColdTerm** shrinks down on the cable for fast, reliable stress relief for all locations. The molded silicone tube offers superior weathering and track resistance. The skirted design for outdoor applications allows for compact installation and prevents conductive drip paths from forming. Unique pull down tabs allow installation on all cable configurations and provide ease of positioning when installing the termination.

### KIT COMPONENTS:

- 3 **ColdTerm** Terminations  
(6 sleeves per kit for Cat. No. 2806 and 2807)
- 1 Roll 20 Plysil® Silicone Rubber Tape
- 1 Roll 17 Plyshield® Semi-Conducting Shielding Tape
- 1 Roll Premium 85CW Vinyl Electrical Tape
- 3 Packs of 10 Plyseal® Mastic Strips
- 3 Tubes of Silicone Grease
- 3 Ground Assemblies
- 3 Plyprep™ Solvent Packs
- Abrasive Cloths
- 3 Gloves
- Instruction Sheet

**CABLE TYPES:** **ColdTerm** Kits are designed for terminating solid extruded dielectric cables to include tape shielded, wire shielded, unshield, jacketed concentric neutral (JCN), and concentric neutral (CN).

**RATINGS:** **ColdTerm** Terminations meet or exceed the Class 1 termination requirements of IEEE Standard 48.

| Voltage Class                    | 5 kV   | 15 kV  | 25 kV   | 35 kV  |
|----------------------------------|--------|--------|---------|--------|
| Corona Extinction Voltage (CEV)  | 4.5 kV | 13 kV  | 21.5 kV | 30 kV  |
| 60 Hz 1 min. Dry Withstand (min) | 25 kV  | 50 kV  | 65 kV   | 90 kV  |
| 60 Hz 6 hrs. Dry Withstand (min) | 15 kV  | 35 kV  | 55 kV   | 75 kV  |
| BIL                              | 75 kV  | 110 kV | 150 kV  | 200 kV |
| Max. Continuous Operating Temp.  | 90°C   | 90°C   | 90°C    | 90°C   |
| Emergency Operating Temp.        | 130°C  | 130°C  | 130°C   | 130°C  |

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1/86 COLDTERM Revision D (1/00)

See next page for more information and recommended uses.



**ColdTerm™**  
High Voltage  
Termination Kit

**RECOMMENDED USES:** Class 1 Terminations for use on all single conductor extruded dielectric power cable from 5 kV through 35 kV. Available in skirted (Outdoor) and unskirted (Indoor) models.

| Cat. No.            | Cable Insulation O.D. Range    | Cable  |  |   |   |   |   |  |
|---------------------|--------------------------------|--|--|---|---|---|---|--|
|                     |                                | 5 kV 100%  | 5 kV 133%<br>8 kV 100%                                   | 15 kV 100%  | 15 kV 133%  | 25/28 kV  | 35 kV 100%  | 35 kV 133%   |
| <b>OUTDOOR 2800</b> | .637 - 1.12"<br>1,62 - 2,84 cm | 3/0 AWG to<br>600 kCMIL<br>85 sq mm to<br>304 sq mm      | 1/0 AWG to<br>500 kCMIL<br>53 sq mm to<br>253 sq mm      | 2 AWG to<br>350 kCMIL<br>34 sq mm to<br>177 sq mm       | 4 AWG to<br>250 kCMIL<br>21 sq mm to<br>127 sq mm       | N/A   | N/A   | N/A  |
| <b>2801</b>         | 0.84 - 1.38"<br>2,13 - 3,51 cm | 350 kCMIL to<br>1000 kCMIL<br>177 sq mm to<br>507 sq mm  | 250 kCMIL to<br>750 kCMIL<br>127 sq mm to<br>380 sq mm   | 3/0 AWG to<br>600 kCMIL<br>85 sq mm to<br>304 sq mm     | 1/0 AWG to<br>500 kCMIL<br>53 sq mm to<br>253 sq mm     | 2 AWG to<br>400 kCMIL<br>34 sq mm to<br>203 sq mm       | N/A   | N/A  |
| <b>2802</b>         | 1.3 - 2.1"<br>3,30 - 5,33 cm   | Over<br>1000 kCMIL<br>Over<br>507 sq mm                  | 750 kCMIL to<br>2000 kCMIL<br>380 sq mm to<br>1013 sq mm | 600 kCMIL to<br>1500 kCMIL<br>304 sq mm to<br>760 sq mm | 500 kCMIL to<br>1500 kCMIL<br>253 sq mm to<br>760 sq mm | 400 kCMIL to<br>1250 kCMIL<br>203 sq mm to<br>633 sq mm | N/A   | N/A  |
| <b>INDOOR 2803</b>  | .637 - 1.12"<br>1,62 - 2,84 cm | 3/0 AWG to<br>600 kCMIL<br>85 sq mm to<br>304 sq mm      | 1/0 AWG to<br>500 kCMIL<br>53 sq mm to<br>253 sq mm      | 2 AWG to<br>350 kCMIL<br>34 sq mm to<br>177 sq mm       | 4 AWG to<br>250 kCMIL<br>21 sq mm to<br>127 sq mm       | N/A   | N/A   | N/A  |
| <b>2804</b>         | 0.84 - 1.38"<br>2,13 - 3,51 cm | 350 kCMIL to<br>1000 kCMIL<br>177 sq mm to<br>507 sq mm  | 250 kCMIL to<br>750 kCMIL<br>127 sq mm to<br>380 sq mm   | 3/0 AWG to<br>600 kCMIL<br>85 sq mm to<br>304 sq mm     | 1/0 AWG to<br>500 kCMIL<br>53 sq mm to<br>253 sq mm     | N/A   | N/A   | N/A  |
| <b>2805</b>         | 1.3 - 2.1"<br>3,30 - 5,33 cm   | Over<br>1000 kCMIL<br>Over<br>507 sq mm                  | 750 kCMIL to<br>2000 kCMIL<br>380 sq mm to<br>1013 sq mm | 600 kCMIL to<br>1500 kCMIL<br>304 sq mm to<br>760 sq mm | 500 kCMIL to<br>1500 kCMIL<br>253 sq mm to<br>760 sq mm | N/A   | N/A   | N/A  |
| <b>OUTDOOR 2806</b> | 0.84 - 1.38"<br>2,13 - 3,51 cm | 350 kCMIL to<br>1000 kCMIL<br>177 sq mm -<br>507 sq mm   | 250 kCMIL to<br>750 kCMIL<br>127 sq mm -<br>380 sq mm    | 3/0 AWG to<br>600 kCMIL<br>85 sq mm to<br>304 sq mm     | 1/0 AWG to<br>500 kCMIL<br>53 sq mm to<br>253 sq mm     | 2 AWG<br>400 kCMIL<br>34 sq mm to<br>203 sq mm          | 1/0 AWG to<br>250 kCMIL<br>53 sq mm to<br>127 sq mm     | 1/0 AWG to<br>2/0 AWG<br>53 sq mm to<br>67 sq mm     |
| <b>2807</b>         | 1.32 - 2.1"<br>3,30 - 5,53 cm  | 1000 kCMIL to<br>2500 kCMIL<br>507 sq mm -<br>1263 sq mm | 750 kCMIL to<br>2000 kCMIL<br>380 sq mm to<br>760 sq mm  | 600 kCMIL to<br>1500 kCMIL<br>304 sq mm to<br>760 sq mm | 500 kCMIL to<br>1500 kCMIL<br>253 sq mm to<br>760 sq mm | 400 kCMIL to<br>1250 kCMIL<br>203 sq mm to<br>633 sq mm | 250 kCMIL to<br>1000 kCMIL<br>127 sq mm to<br>507 sq mm | 2/0 AWG to<br>1000 kCMIL<br>67 sq mm to<br>507 sq mm |

**Note: Cable insulation O.D. is the critical factor in kit selection.**



# Plyterm<sup>®</sup> Cable Termination Kit

## FOR TERMINATING HIGH VOLTAGE SHIELDED POWER CABLE 5-15kV

- Terminates all extruded dielectric cables
- Pennants for reliable stress cones
- Three sizes for entire 5-15kV range
- Meets IEEE Standard No. 48

**RECOMMENDED USES:** For terminating all types of extruded dielectric shielded power cable 5,000 volts thru 15,000 volts. (Consult factory for uses above 15 kV). Each kit contains material to construct three single conductor indoor terminations. To convert to outdoor application, cover termination with 20 Plysil<sup>®</sup> Silicone Rubber Tape.

**DESCRIPTION:** Plyterm<sup>®</sup> Cable Termination Kit is a pennant type termination system utilizing W963 Plysafe<sup>®</sup> EPR High Voltage Pennants to provide quick reliable stress relief. Each kit contains W963 Plysafe<sup>®</sup> pennants and tape, 17 Plyshield<sup>®</sup> EPR Shielding Tape, Premium 85 CW Vinyl Tape, abrasive cloth, cleaning solvent wipes, grounding braid and easy to understand installation instructions.

Plyt

**LIMITED WARRANTY:** Plymouth warrants that its Product will substantially conform to that products written specifications exclusively contained in its Plymouth product data sheet for a period of one (1) year from the date of shipment, (Unless provided otherwise in product's data sheet). Plymouth makes no warranty to the distributor, its customers, or the product's end user for the products merchantability and/or suitability for his/its intended use or purpose, and buyer shall assume all risks associated therewith. Provided that the product is proved to be defective within the terms described above, and provided buyer shall have first complied with all return policies of Plymouth, PLYMOUTH'S SOLE OBLIGATION AND BUYER'S EXCLUSIVE REMEDY UNDER THIS PRODUCT WARRANTY SHALL BE TO REPLACE SUCH QUANTITY OF THE PRODUCT AS IS PROVED TO BE DEFECTIVE WITHIN THE TIME PERIOD SPECIFIED ABOVE. EXCEPT AS EXPRESSLY SET FORTH HEREIN, PLYMOUTH MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED. In no event shall Plymouth be liable for collateral, consequential, indirect or incidental damages arising out of, or connected in any way with the supply of products.

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**TERMINATION RATINGS:** Plyterm<sup>®</sup> terminations meet or exceed IEEE No. 48 standard for cable terminations.

| Insulation Class                               | 5kV | 8kV | 15kV |
|--|-----|-----|------|
| BIL kV   | 75  | 95  | 110  |
| CEV Corona Extinction Voltage kV; (RMS)        | 4.5 | 7.5 | 13.0 |
| 60 Hz 1 min. Dry Withstand (minimum) kV; (RMS) | 25  | 35  | 50   |
| 60 Hz 6 hr. Dry Withstand (minimum) kV; (RMS)  | 15  | 25  | 35   |
| Max. Continuous Operating Temp. °C             | 90  | 90  | 90   |
| Emergency Operating Temp. °C                   | 130 | 130 | 130  |

### PLYTERM<sup>®</sup> KIT SELECTION CHART:

| Cat. No. | Voltage/Sizes            | Outdoor Conversion Required Rolls Of 20 Plysil |
|----------|--------------------------|--|
| 2644     | 5-8kV #8 AWG-1000 KCMIL  | 1 Roll per Kit                                 |
| 2645     | 9-15kV #4 - #2 AWG       | 3 Rolls per Kit                                |
| 2646     | 9-15 kV #1 AWG-250 KCMIL | 4 Rolls per Kit                                |

Data in table represent average test results and are not to be used for specific purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.





# SWT Stress-Wrap<sup>®</sup> Termination Kit

## FOR TERMINATING HIGH VOLTAGE SHIELDED POWER CABLE 5-35 KV

- Three terminations in each kit
- One step stress relief
- For Indoor application
- Convert to outdoor or contaminated area application with use of 20 Plysil Silicone Rubber Tape
- Three sizes cover 5-35kV, #6-2500 kCMIL
- Meets IEEE Standard No. 48

**RECOMMENDED USES:** For terminating all types of extruded dielectric shielded power cable from 5,000 volts thru 35,000 volts. Each kit makes three single conductor indoor terminations. For outdoor applications, termination must be covered with 20 Plysil Silicone Rubber Tape.

**DESCRIPTION:** SWT Stress-Wrap Termination Kit contains all the materials necessary to construct three single conductor indoor terminations on all types of extruded dielectric cable. Each kit contains field proven Stress-Wrap stress control technology, abrasive cloth, cleaning solvent wipes, solderless grounding device, 10 Plyseal Mastic Pad to seal lug, and L969 Plyvolt Linerless EPR High Voltage for final overwrap to provide UV and track resistance. SWT Termination Kits are suitable for all cable constructions without the need for special adapters. Dimensional tolerances of installation are not critical.

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**TERMINATION RATINGS:** Stress-Wrap terminations meet or exceed IEEE No. 48 Standard for cable terminations. Stress-Wrap technology is backed by over two decades of field experience.

| Insulation Class                          | 5kV | 8kV | 15kV | 25kV | 35kV |
|---|-----|-----|------|------|------|
| BIL kV                                    | 75  | 95  | 110  | 150  | 200  |
| CEV Corona Extinction Voltage kV; (RMS)   | 4.5 | 7.5 | 13.0 | 21.5 | 30.0 |
| 60Hz 1min. Dry Withstand (min.) kV; (RMS) | 25  | 35  | 50   | 65   | 90   |
| 60Hz 6 hr. Dry Withstand (min.) kV; (RMS) | 15  | 25  | 35   | 55   | 75   |
| Max. Continuous Operating Temp. °C        | 90  | 90  | 90   | 90   | 90   |
| Emergency Operating Temp. °C              | 130 | 130 | 130  | 130  | 130  |

## SWT KIT SELECTION CHART:

| SWT Stress-Wrap <sup>®</sup> Splice Kit |           |          |          | Outdoor Conversion     |  |          |          |   |   |
|---|-----------|----------|----------|------------------------|--|----------|----------|---|---|
| 5 kV UN&GN                              | 8 kV UN   | 15 kV UN | 15 kV UN | Nominal System Voltage | 8 kV UN&GN                                   | 8 kV UN  | 15 kV UN |   |   |
| 8 kV GN                                 | 15 kV GN  | 28kV GN* | 35kV GN* |                        | 8 kV GN                                      | 15 kV GN | 28kV GN* |   |   |
| XLPE, PE, EPR, RUBBER                   |           |          |          | Cable Insulation Type  | XLPE, PE, EPR, RUBBER                        |          |          |   |   |
| SWT Kit#                                |           |          |          | Conductive Size        | Number of Rolls of PLYSIL for 3 Terminations |          |          |   |   |
|   |           |          |          | Copper/Aluminum        |  |          |          |   |   |
|   |           |          |          | AWG or CkMIL           | mm <sup>2</sup>                              |          |          |   |   |
| SWT-A                                   | SWT-A     | SWT-A    | SWT-B    | 6 AWG                  | 13.30  | 2        | 3        | 4 | 5 |
|   |           |          |          | 4 AWG                  | 21.15  |          |          |   |   |
|   |           |          |          | 2 AWG                  | 33.62  |          |          |   |   |
|   |           |          |          | 1 AWG                  | 42.41  |          |          |   |   |
|   |           |          |          | 1/0 AWG                | 53.59  |          |          |   |   |
|   | 2/0 AWG   | 67.93    |          |                        |  |          |          |   |   |
|   | 3/0 AWG   | 85.01    | 3        | 5                      | 6  |          |          |   |   |
|   | 4/0 AWG   | 107.20   |          |                        |  |          |          |   |   |
|   | 250 kCMIL | 127      |          |                        |  |          |          |   |   |
|   | 300 kCMIL | 152      |          |                        |  |          |          |   |   |
| 350 kCMIL                               | 177       |          |          |                        |  |          |          |   |   |
| SWT-B                                   | SWT-B     | SWT-C    | SWT-C    | 400 kCMIL              | 203  | 4        | 6        | 7 |   |
|   |           |          |          | 500 kCMIL              | 253  |          |          |   |   |
|   |           |          |          | 600 kCMIL              | 309  |          |          |   |   |
|   |           |          |          | 750 kCMIL              | 380  |          |          |   |   |
|   |           |          |          | 800 kCMIL              | 405  |          |          |   |   |
| SWT-C                                   | SWT-C     | SWT-C    | SWT-C    | 1000 kCMIL             | 507  | 7        | 8        | 9 |   |
|   |           |          |          | 1250 kCMIL             | 633  |          |          |   |   |
|   |           |          |          | 1500 kCMIL             | 760  |          |          |   |   |
|   |           |          |          | 1750 kCMIL             | 887  |          |          |   |   |
|   |           |          |          | 2000 kCMIL             | 1010   |          |          |   |   |
|   |           |          |          | 2500 kCMIL             | 1263   |          |          |   |   |

\*Excluding cables with an insulation wall thickness above 300 mils.

\*Excluding cables with an insulation wall thickness above 350 mils.



# 55C Adhesive

## FOR BONDING BETWEEN CABLE INSULATION AND INSULATING MATERIALS

- Fast drying time
- Excellent adhesion
- Swab/cap applicator

**RECOMMENDED USES:** For added bonding between the cable insulation and the first layer of applied insulating tape.

### STANDARD SIZES:

- 4 oz.  
113.6 cc
- 8 oz.  
227.2 cc

**DESCRIPTION:** 55C Adhesive is a fast drying rubber based cement possessing excellent adhesive qualities. 55C is compatible with oil base, rubber, butyl rubber, EPR, thermoplastic and thermo-setting polyethylene cable insulations.

### SPECIFICATIONS:

| PROPERTY        | VALUE | UNIT    | REFERENCE  |
|-----------------|-------|---------|------------|
| <b>PHYSICAL</b> |       |         |            |
| Color           | Black | -       | -          |
| Adhesion        | 50    | Oz./in. | BTM-418    |
| Drying Time     | 5     | Minutes | ASTM-D-418 |
| Solids          | 25    | %       | BTM-813    |
| Viscosity       | 150   | cp      |            |
| ASTM-D-1084     |       |         |            |
| <b>CHEMICAL</b> |       |         |            |
| Flash Point     | -18   | °C      | ASTM-D-816 |

BTM - Denotes Bishop Test Method where no Industry Standard is applicable. Details available upon request.

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.

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# Plyprep™ Cable Preparation Kit

## CONVENIENT CABLE CLEANING KIT

- Safe, non-hazardous cleaning solvent
- Unique tandem packaged wipes  
( 1 saturated wipe, 1 absorbing wipe)
- Abrasive cloth for cable polishing

**RECOMMENDED USES:** Plyprep is used to properly prepare high and low voltage cables prior to splicing or terminating. Use for removing grease, oil, tar, oxide inhibitor, etc. Use to replace ozone depleting solvents, such as 1,1,1, Trichlor.

**DESCRIPTION:** Each Plyprep Cable Preparation Kit includes 3 tandem packaged wipes and #120 grit non-conducting abrasive cloth is used for polishing/abrading cable insulation. The tandem package contains one solvent saturated wipe for cleaning and one dry wipe for absorbing excess solvent for quicker drying. Wipes are lint and contaminant free and are sealed in a foil protective package.

The unique cleaning solvent is a non-hazardous, halogen free solvent which evaporates completely. Plyprep solvent is compatible with all cable insulation, semi-conductive shields, and plastic cable jackets.

PCP1

## SPECIFICATIONS:

| PROPERTY                     | VALUE                           |
|------------------------------|---------------------------------|
| <b>PHYSICAL</b>              |                                 |
| Appearance, odor             | Clear liquid, faint citrus odor |
| Specific Gravity             | 0.76                            |
| Halogen Content              | None                            |
| Toxicity                     | Non-Toxic                       |
| Water Solubility             | Non-Soluble                     |
| Temperature Use Range        | 0°F - 120°F                     |
| Flash Point - Tag Closed Cup | 144°F                           |

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## Plypak™ Custom Engineered Kits

### **CUSTOM DESIGNED SPLICE AND TERMINATION KITS FROM 600V to 138KV**

- Specially designed for each application
- All types of splice configurations
- For PILC and extruded dielectric insulations
- Indoor, Outdoor and reduced length terminations
- Tee, Wye, and transition splices
- For direct burial

**RECOMMENDED USES:** Custom engineered splice and termination kits eliminate the guesswork. Each package is specifically designed for your application. For all requirements where stocked kits will not do the job.

**DESCRIPTION:** Custom Engineered Kits are engineered to meet you specific splicing and terminating needs. Based on details that you provide, Plymouth/Bishop will custom design and package a kit for you special application. We produce the complete kit, which include all the materials to construct the splice or termination. Each kit to include:

- Clear, easy to understand installation instructions and drawings
- Functionally designed tapes
- Connectors or terminal lugs
- Epoxy, lead or tape splice covers

#### **HOW TO USE:**

1. Describe your requirements by completing a job specification sheet and forward this information to your local Plymouth/Bishop Sales Representative, or in case of emergency, directly to Plymouth/Bishop.
2. Plymouth/Bishop's engineering and design staff will generate drawings, installation instructions, and bill of materials for your application.
3. Plymouth/Bishop will quote you a complete kit cost and delivery.

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# GLF<sup>®</sup> Jacket Repair Wrap

## FOR REPAIRING CABLE JACKETS ON MINE, POWER AND COMMUNICATION CABLES

- 1 Excellent abrasion and flame resistance
- 1 UV resistant
- 1 Oil and chemical resistant
- 1 Excellent moisture seal
- 1 MSHA approval number:  
P-7K-SK-153082-1-MSHA
- 1 No heat required
- 1 Will not corrode copper or aluminum

**RECOMMENDED USES:** For jacket repair and restoration on mine trailing cable, direct buried power cable, and communication cable. Durable splice cover for direct buried splices on all types of cable. For sealing and repairing cable conduit.

### STANDARD SIZES:

- 1 2 in. x 6 ft.  
51mm x 1.8m
- 1 2 in. x 8.5 ft.  
51mm x 2.6m

GLF Revised 4/99

**DESCRIPTION:** GLF Jacket Repair Wrap is a unique laminate of a specially formulated Hypalon backing and a flame retardant mastic possessing the superior abrasion and moisture resistance required for all types of cable jacket repair. The laminate is easy to apply and remains flexible at low temperatures. GLF will adhere to all types of cable jackets yielding a positive moisture seal. GLF bears the acceptance no. P-7K-SK-153082-1-MSHA.

### SPECIFICATIONS:

| PROPERTY            | VALUE | UNIT   | TEST METHOD        |
|---------------------|-------|--------|--------------------|
| <b>APPLICATIONS</b> |       |        |                    |
| Thickness           | 0.075 | inch   | ASTM-D-4325        |
|                     | 1.270 | mm     |                    |
| Flame Resistance    | Pass  | -      | MSHA-30-CFR PART 7 |
| Water Absorption    | 0.10  | %      | ASTM-D-570         |
| Copper Corrosion    | None  | Visual | ASTM-D-69          |
| Ozone Resistance    | Pass  | Visual | ASTM-D-4325        |
| UV Resistance       | Pass  | Visual | ASTM-D-4325        |

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## PLYTUFF F/R PVC JACKETING TAPE

### PLYTUFF FLAME RETARDANT PVC TAPE

- 1 Flame retardant
- 1 Works in any weather
- 1 Highly abrasion resistant
- 1 Oil resistant
- 1 Strong adhesive backing
- 1 Excellent dielectrics
- 1 High breaking strength
- 1 Compatible with all jacketing materials
- 1 P-153 MSHA acceptance

**DESCRIPTION:** Plytuff is a specially formulated polyvinyl chloride tape designed for use where flame resistance and toughness are necessary. Adhesive backing is made for excellent adherence to neoprene, hypalon and polyurethane portable cable jackets.

**RECOMMENDED USES:** For use anywhere MSHA-approved complete splices are required. For general electrical repair work where toughness and flame resistance is demanded. Rejacketing of trailing cable splices subjected to abuse on outer surfaces. Sealing ends of hot and cold sleeve-type trailing cable splices against moisture penetration. Jacketing on high voltage splices in hostile environments. Covering nicks and abrasions on cable jackets. Highly flame resistant and designed for applications where water, dirt, grease, oils and other contaminants are encountered in significant amounts. Excellent for use on jackets of low voltage AC or DC trailing cables, mine power feeder and SHD-GC cable, SO cored, diesel cable and other cables subject to abuse. Plytuff tape is used in Plymouth Bishop's PTCS and GLF cable splice kits.

### STANDARD SIZES:

- 1 3/4 in. x .007 in. x 66 ft.
- 1 1 1/2 in. x .007 in. x 66 ft.
- 1 1 1/2 in. x .007 in. x 44 ft.

### SPECIFICATIONS:

| PROPERTY            | VALUE              | UNIT  | TEST METHOD       |
|---------------------|--------------------|-------|-------------------|
| Thickness           | 0.007              | inch  | ASTM D-1000       |
| Tensile Strength    | 17                 | inch  | ASTM D-1000       |
| Elongation          | 150                | %     | ASTM D-1000       |
| Adhesion to Steel   | 22                 | oz/in | ASTM D-1000       |
| Adhesion to Backing | 22                 | oz/in | ASTM D-1000       |
| Flammability        | self-extinguishing | -     | MSHA 30-CFR 18.64 |
| Dielectric Strength | 7,000              | volts | ASTM D-1000       |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.

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## Neoprene Vulcanizable Jacketing Compound

### FOR COVERING SPLICES IN MINE POWER CABLES WITH NEOPRENE JACKETS

- Chemically bonds to cable jacket
- Flows easily
- Cures Quickly
- High abrasion resistance
- Meets MIL Spec. R3065-Type SA175A

**RECOMMENDED USES:** As a vulcanizable jacketing compound for splices in mine power cable with Neoprene jackets. Its easy flow at low molding temperatures makes it suitable for use on polyethylene insulated cables. May be used as insulation as well as jackets on low voltage (1000 V) cable.

#### STANDARD SIZES:

- 1 1/2 in. x .030 in x 30 ft.
- 2 in. x .080 in. x 10 ft.

**DESCRIPTION:** An easy flowing material with broad range of mold temperatures (260° - 330°F). Bonds readily to all Neoprene jackets. Provides a waterproof covering with outstanding resistance to oil and abrasion. Provides flame retardant quality as set forth by the MSHA in test 30 CFR 18.64. Has very good electrical properties. Its quick cure system greatly reduces molding time.

Neo-VJC

#### SPECIFICATIONS:

| PROPERTY            | VALUE                  | UNIT   | TEST METHOD   |
|---------------------|------------------------|--------|---------------|
| <b>PHYSICAL**</b>   |                        |        |               |
| Color               | Black                  | -      | -             |
| Thickness           | 0.030                  | inch   | ASTM-D-1317   |
|                     | 0.080                  | inch   |               |
| Tensile Strength    | 1700                   | psi    | ASTM-D-412    |
| Elongation          | 500                    | %      | ASTM-D-412    |
| Tear Resistance     | 220                    | ppi    | ASTM-D-624    |
| Hardness            | 70                     | Duro   | ASTM-D-2240   |
| Abrasion Resistance |                        |        |               |
| 1000 cycle / H22    | 0.130                  | grams  | Index         |
| <b>CHEMICAL</b>     |                        |        |               |
| UV Resistance       | Passed                 | Visual | *BTM-708      |
| Ozone Resistance    | Passed                 | 0.03%  | MIL-I-2825    |
| Solvent Resistance  | Excellent              | Visual | *BTM-815      |
| Weathering          | 100                    | Hours  | MIL-I-3825    |
| Flammability        | Passed                 | -      | UL44          |
| Flammability        | Passed                 | -      | 30 CFR 18.64  |
| <b>ELECTRICAL</b>   |                        |        |               |
| Dielectric Strength | 450                    | V/mil  | ASTM-D-4325   |
| Volume Resistivity  | 9.5 x 10 <sup>12</sup> | ohm-cm | ASTM-D-4325   |
| U-Bend              | >500                   | Hours  | IPCEA-S-19-81 |

\*BTM - denotes Bishop Test Method where no industry standard is applicable. Details available upon request.

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.

\*\* Physicals - Vulcanized 12 minutes at 300 °F.

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# Neoprene Reinforcing Tape

## FOR REINFORCING SPLICES IN PORTABLE MINE POWER CABLES

- High tensile strength
- Bonds chemically to jacketing materials
- Restores cable to its original strength

**RECOMMENDED USES:** For reinforcing vulcanized splices in portable mine power cables. May be used with either Bishop's Neoprene or Hypalon Vulcanizable Compounds.

### STANDARD SIZES:

- 1 in. x .030 in. x 30 ft.

**DESCRIPTION:** An easy flowing material withing a broad range of mold temperatures (260° - 330°F). Bonds readily to Hypalon, NBR-PVC and Chlorinated Polyethylene jackets. Provides a waterproof covering with outstanding resistance to oil and abrasion. Provides flame retardant quality as set forth by the MSHA in test 30 CFR 18.64. Has very good electrical properties. It's quick cure system greatly reduces molding time.

Neo-RT

### SPECIFICATIONS:

| PROPERTY           | VALUE     | UNIT   | TEST METHOD |
|--------------------|-----------|--------|-------------|
| <b>PHYSICAL**</b>  |           |        |             |
| Color              | Black     | -      | -           |
| Thickness          | 0.030     | inch   | ASTM-D-1373 |
| Tensile Strength   | 2400 psi  |        | ASTM-D-412  |
| Elongation         | 40        | %      | ASTM-D-412  |
| <b>CHEMICAL</b>    |           |        |             |
| Water Absorption   | 2.670     | %      | ASTM-D-570  |
| UV Resistance      | No Effect | Visual | *BTM-708    |
| Ozone Resistance   | Passed    | 0.03%  | MIL-I-3825  |
| Solvent Resistance | Excellent | Visual | *BTM-815    |

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# Hypalon Vulcanizable Jacketing Compound

**FOR COVERING SPLICES AND POTHEADS ON MINE POWER CABLES WITH HYPALON, NBR-PVC AND CHLORINATED POLY-ETHYLENE JACKETS.**

- Chemically bonds to cable jacket
- Flows easily
- Cures quickly
- High abrasion resistance

**RECOMMENDED USES:** As a vulcanizable jacketing compound for splices and potheads on mine power cables with Hypalon and NBR-PVC jackets. Its easy flow at low mold temperatures make it suitable for use on polyethylene insulated cable. May be used as insulation as well as jackets on low voltage (1000 V) cable.

**STANDARD SIZES:**

- 1 1/2 in. x .030 in. x 30 ft.

**DESCRIPTION:** An easy flowing material withing a broad range of mold temperatures (260° - 330°F). Bonds readily to Hypalon, NBR-PVC and Chlorinated Polyethylene jackets. Provides a water-proof covering with outstanding resistance to oil and abrasion. Provides flame retardant quality as set forth bty the MSHA in test 30 CFR 18.64. Has very good electrical properties. It's quick cure system greatly reduces molding time.

Hyp-VJC

**SPECIFICATIONS:**

| PROPERTY            | VALUE            | UNIT       | TEST METHOD   |
|---------------------|------------------|------------|---------------|
| <b>PHYSICAL**</b>   |                  |            |               |
| Color               | **Various        | -          | -             |
| Thickness           | 0.030            | inch       | ASTM-D-1373   |
| Tensile Strength    | 2000 psi         | ASTM-D-412 |               |
| Elongation          | 500              | %          | ASTM-D-412    |
| Tear Resistance     | 150              | lbs/in     | ASTM-D-624    |
| Hardness            | 65               | Duro       | ASTM-D-2240   |
| Abrasion Resistance | 65               | Index      | NBS           |
| <b>CHEMICAL</b>     |                  |            |               |
| UV Resistance       | Passed           | Visual     | *BTM-708      |
| Ozone Resistance    | Passed           | 0.03%      | MIL-I-3825    |
| Solvent Resistance  | Excellent        | Visual     | *BTM-815      |
| Weathering          | 100              | Hours      | MIL-R-9002    |
| Flammability        | Passed           | -          | UL44          |
| Flammability        | Passed           | -          | 30 CFR 18.64  |
| <b>ELECTRICAL</b>   |                  |            |               |
| Dielectric Strength | 500              | VPM        | ASTM-D-149    |
| Volume Resistivity  | 10 <sup>12</sup> | ohm-cm     | ASTM-D-257    |
| U-Bend              | >1000            | Hours      | IPCEA-S-19-81 |

\*BTM - denotes Bishop Test Method where no industry standard is applicable. Details available upon request.

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\*\*Physicals - vulcanized 12 minutes at 300°F.

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# Ethylene Propylene Rubber (EPR) Vulcanizable Insulating Compound

## FOR INSULATING 600 V TO 69,000 V MINE POWER CABLES

- Use for cables through 96kV
- High dielectric strength
- Bond chemically to all cable insulations

**RECOMMENDED USES:** For insulating mine power cable splices and stress cones through 69 kV.

### STANDARD SIZES:

- 1 in. x .030 in. x 30 ft.

**DESCRIPTION:** A true EPR compound that flows easily within a broad range of mold temperatures (260° - 330°F). Cures quickly into an excellent insulator with outstanding resistance to corona and ozone. Has high dielectric properties and thermal stability. Compatible with all extruded cable insulations.

EPR-IC

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### SPECIFICATIONS:

| PROPERTY            | VALUE            | UNIT   | TEST METHOD   |
|---------------------|------------------|--------|---------------|
| <b>PHYSICAL**</b>   |                  |        |               |
| Color               | Orange           | -      | -             |
| Thickness           | 0.030            | inch   | ASTM-D-1373   |
| Tensile Strength    | 1000 psi         |        | ASTM-D-412    |
| Elongation          | 400              | %      | ASTM-D-412    |
| Operation Temp.     |                  |        |               |
| Max. (continuous)   | 90               | °C     | *BTM-608      |
| Min.                | -55              | °C     | MIL-I-3825    |
| <b>CHEMICAL</b>     |                  |        |               |
| Water Absorption    | 0.024            | %      | ASTM-D-570    |
| Corrosion           | Passed           | Visual | MIL-I-7798    |
| UV Resistance       | No Effect        | Visual | *BTM-708      |
| Ozone Resistance    | No Effect        | 0.03%  | MIL-I-3825    |
| Solvent Resistance  | Excellent        | Visual | *BTM-815      |
| <b>ELECTRICAL</b>   |                  |        |               |
| Dielectric Strength | 700              | VPM    | ASTM-D-149    |
| Dielectric Constant | 2.8              | -      | ASTM-D-150    |
| Power Factor        | 0.004            | -      | ASTM-D-150    |
| Volume Resistivity  | 10 <sup>15</sup> | ohm-cm | ASTM-D-257    |
| U-Bend              | >1000            | Hours  | IPCEA-S-19-81 |

\*BTM - denotes Bishop Test Method where no industry standard is applicable. Details available upon request.

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\*\* Physicals - vulcanized 12 minutes at 300°F.



# 60 and 60A Varnished Cambric Tape

## ELECTRICAL INSULATING TAPE

- Excellent insulating properties
- Oil and moisture resistant
- Good conformity
- Class A (105°C) temperature rating
- With and without adhesive

**RECOMMENDED USES:** For primary insulating and building stress cones on paper insulated cable. For insulating armature coils, bus bars and motor connections where clean re-entry is desired.

### SIZES:

- 3/4 in. x 60 ft.  
19mm x 20m
- 1 1/2 in. x 108 ft.  
38mm x 33m

Consult factory for other sizes.

60/A

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**DESCRIPTION:** 60 and 60A Varnished Cambric Tapes are a fine bias (diagonal) weave cotton cloth coated with an electrical insulating varnish which provides good electrical and mechanical protection. 60 Varnished Cambric is a dry, 7 mil thick tape with a light paraffin coating providing good slippage between tape layers. 60A Varnished Cambric is a 10 mil thick tape with a pressure sensitive adhesive which holds tape layers in place after application. Both tapes possess good flexibility to allow tight taping of irregular shape contours and provides good puncture resistance.

## SPECIFICATIONS

| PROPERTY        | VALUE | UNIT       | TEST METHOD |
|-----------------|-------|------------|-------------|
| <b>PHYSICAL</b> |       |            |             |
|                 | 60    | 60A        |             |
|                 | Dry   | W/Adhesive |             |
| Color           | Tan   | Tan        | -           |
| Thickness       | 0.007 | 0.010      | Inch        |
| Tensile         |       |            |             |
| Strength        | 40    | 40         | Lb/in       |
| Elongation      | 50    | 50         | %           |
| Adhesion        |       |            |             |
| to Steel        |       | 16         | oz/in       |
| to backing      |       | 16         | oz/in       |
| Dielectric      |       |            |             |
| Strength        | 1000  | 1000       | V/Mil       |

Data in table represent average test results and are not to be used for specification purposes. The product user should make his/her own tests to determine the product's suitability for the intended use.



# CR Tape

## CR TAPE FOR TEMPORARY COVERING AND MOISTURE SEAL DURING TELEPHONE CABLE SPLICING.

### Recommended Uses:

For a temporary cover and moisture seal during splicing or repairing of insulated telephone cable.

### Standard Sizes:

- 28 in. x 20 ft.  
711 mm x 6.1m

### Description:

CR is a two-layered tape with a white unvulcanized rubber tacky face (1/2 of total thickness) permanently bonded to a layer of black vulcanized rubber which provides the required mechanical strength. The white tacky side is covered with a removable Holland Cloth separator.

CR

### Specifications:

| Property            | Value     | Unit      | Test Method |
|---------------------|-----------|-----------|-------------|
| <b>Physical</b>     |           |           |             |
| Cohesion            | Excellent | -         | PTM-911     |
| Elongation:         |           |           |             |
| Max.                | 750       | %         | PTM-911     |
| Min.                | 400       | %         | PTM-911     |
| Permanent Set       |           |           |             |
| Max.                | 2         | Inches    | PTM-911     |
| Tensile Strength    | 25        | lbs/in    |             |
| Thickness           | 0.050     | inches    | ASTM-D-412  |
|                     | 1.270     | mm        | ASTM-D-4325 |
| <b>Chemical</b>     |           |           |             |
| Weather-O-Meter     |           |           |             |
| 18 Hours            | No effect | -         | PTM-912     |
| <b>Electrical</b>   |           |           |             |
| Dielectric Strength | 350       | volts/mil | ASTM-D-149  |

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\*PTM-Plymouth Test Method

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# DR Tape

## DR TAPE FOR TELEPHONE CABLE SPLICING, AND INSULATION OF EXCHANGE STATION AND OUTSIDE DISTRIBUTING WIRE

**RECOMMENDED USES:**  
 For telephone cable splicing and insulation of exchange station and outside distributing wire splices and connections.

### STANDARD SIZES:

- 1 3/4 in. x 15 ft.  
19 mm x 4.6 m
- 1 2 in. x 15 ft.  
50 mm x 4.6 m

**DESCRIPTION:** DR is a two-layer tape with a white unvulcanized rubber tacky face (1/2 of total thickness) permanently bonded to a layer of black vulcanized rubber which provides the required mechanical strength. The white tacky side is covered with a removable Holland Cloth separator.

DR

### SPECIFICATIONS

| PROPERTY            | VALUE     | UNIT         | TEST METHOD |
|---------------------|-----------|--------------|-------------|
| <b>PHYSICAL</b>     |           |              |             |
| Adhesion            | 3/4       | Turns        | PTM-912     |
| Elongation          | 500       | %            | ASTM-D-412  |
| Permanent Set       |           |              |             |
| Max.                | 1.5       | Inches       | PTM-912     |
| Tackiness           | no unwind | -            | PTM-912     |
| Tensile Strength    | 12        | lbs/in width | ASTM-D-412  |
| Thickness           | 0.045     | inches       | ASTM-D-1375 |
|                     | 1.143     | mm           |             |
| <b>CHEMICAL</b>     |           |              |             |
| Heat Stability      |           |              |             |
| @ 100°C             | Excellent | -            | PTM-912     |
| Weather-O-Meter     |           |              |             |
| 18 Hours            | No effect | -            | PTM-912     |
| <b>ELECTRICAL</b>   |           |              |             |
| Dielectric Strength | 350       | volts/mil    | ASTM-D-149  |

\*PTM-Plymouth Test Method

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