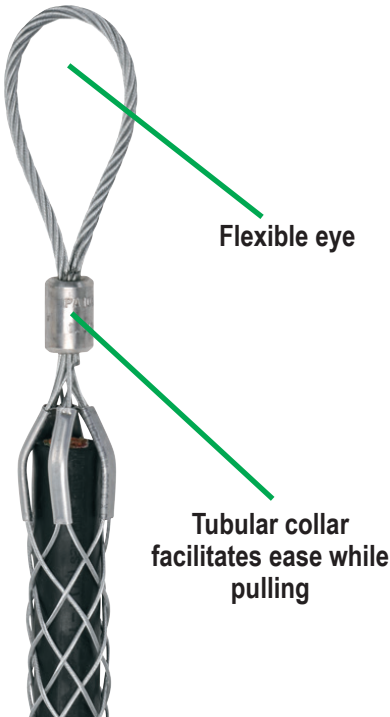


# BRYANT® Wire Management Products

## Cord Grips Family Overview - Continued

### ***Pulling Grips***



Pulling Grips are designed to serve as reusable tools for light industrial pulling of electrical cable and for underground and industrial plant wiring and re-wiring. These grips offer protection from abrasion and ease the cable through bends and rough surfaces. They also serve as a temporary splice, when replacing old cable with new, and to pull slack in new construction or maintenance operations.

### **Light Duty Low Tension Pulling Grips**

- Ideal for use in utility work, industrial and commercial building service lines, underground transmission line stringing
- Range 0.75 – 1.74 inches

### **Junior Low Tension Pulling Grips**

- Ideal for use in utility work, industrial and commercial building service lines, underground transmission line stringing
- Range 0.25 – 1.24 inches

**BRYANT®**

# Light Duty Low Tension Pulling Grips

## Features

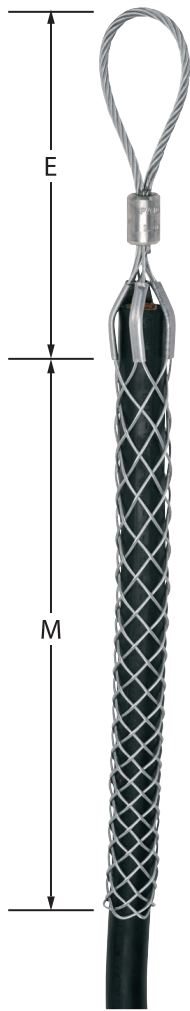
- Flexible eye
- Single weave variable mesh provides uniform positive gripping power
- High strength galvanized steel
- Reusable
- Easily mates with swivel and link type connections
- Tubular metal shoulders protect cable ends
- Easily installed on cable

## Applications

- Utility work
- Service lines in industrial and commercial buildings
- Light-duty underground transmission lines stringing

## Agency Approvals

- CSA Certified File LR701228

**PA150**

E = Eye Length  
M = Mesh Length

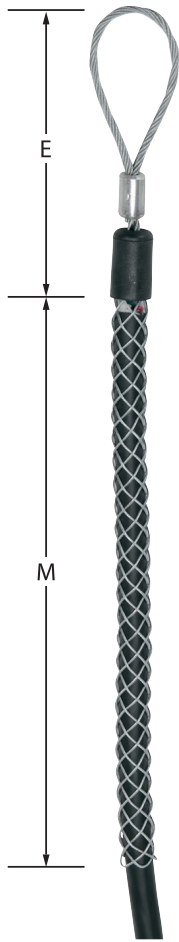
| Bryant® Flexible Eye, Closed Mesh Light Duty Low Tension Pulling Grips |         |                     |                                  |                                                |                        |                         |             |
|------------------------------------------------------------------------|---------|---------------------|----------------------------------|------------------------------------------------|------------------------|-------------------------|-------------|
| Part Number                                                            | Price   | Drawing Link        | Cable Diameter Range Inches [cm] | Approximate Breaking Strength [Pounds/Newtons] | Eye Length Inches [cm] | Mesh Length Inches [cm] | Weight [lb] |
| <a href="#">PA075</a>                                                  | \$65.00 | <a href="#">PDF</a> | 0.75-0.99 [1.90-2.51]            | 4,000 [17,792]                                 | 6.0 [15.24]            | 12.0 [30.48]            | 0.3         |
| <a href="#">PA100</a>                                                  | \$67.00 | <a href="#">PDF</a> | 1.00-1.24 [2.54-3.15]            | 5,300 [23,574]                                 | 7.0 [17.78]            | 13.0 [33.02]            | 0.4         |
| <a href="#">PA125</a>                                                  | \$65.00 | <a href="#">PDF</a> | 1.25-1.49 [3.17-3.78]            | 5,300 [23,574]                                 | 7.0 [17.78]            | 14.0 [35.56]            | 0.4         |
| <a href="#">PA150</a>                                                  | \$76.00 | <a href="#">PDF</a> | 1.50-1.74 [3.81-4.42]            | 6,800 [30,246]                                 | 8.0 [20.32]            | 15.0 [38.10]            | 0.6         |



**CAUTION:** Never use grip to approximate breaking strength. Refer to technical data page for safety and working load factors. Banding is necessary to guard against accidental release of grip and provide maximum reliability.

**BRYANT®**

# Junior Low Tension Pulling Grips

**PJ075**

E = Eye Length  
M = Mesh Length

## Features

- Single weave variable mesh provides uniform positive grip power
- High strength galvanized steel
- Flexible eye easily attaches to pulling line snake or fish tape
- Reusable
- Pulls one or several cables
- Installs easily over building wire

## Applications

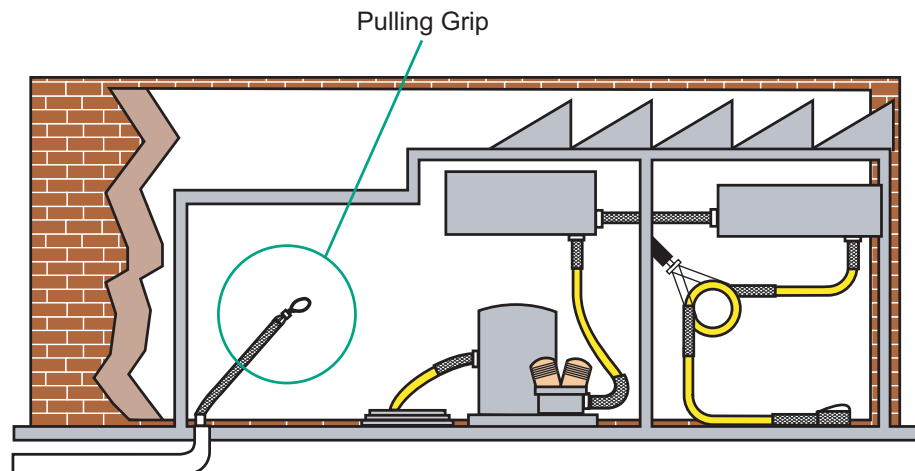
- Utility work
- Service lines in industrial and commercial buildings
- Light-duty underground transmission lines stringing

## Agency Approvals

- CSA Certified File LR701228

**Bryant® Flexible Eye, Closed Mesh Junior Low Tension Pulling Grips**

| Part Number           | Price   | Drawing Link        | Cable Diameter Range Inches [cm] | Approximate Breaking Strength [Pounds/Newtons] | Eye Length Inches [cm] | Mesh Length Inches [cm] | Weight [lb] |
|-----------------------|---------|---------------------|----------------------------------|------------------------------------------------|------------------------|-------------------------|-------------|
| <a href="#">PJ025</a> | \$26.00 | <a href="#">PDF</a> | 0.25-0.36 [0.63-0.91]            | 450 [2,002]                                    | 3.25 [8.25]            | 4.25 [10.79]            | 0.1         |
| <a href="#">PJ037</a> | \$30.50 | <a href="#">PDF</a> | 0.37-0.49 [0.94-1.24]            | 900 [4,003]                                    | 3.75 [9.52]            | 7.00 [17.78]            | 0.1         |
| <a href="#">PJ050</a> | \$33.50 | <a href="#">PDF</a> | 0.50-0.61 [1.27-1.55]            | 1,300 [5,782]                                  | 4.25 [10.79]           | 8.50 [21.59]            | 0.1         |
| <a href="#">PJ062</a> | \$38.00 | <a href="#">PDF</a> | 0.62-0.74 [1.57-1.88]            | 1,950 [8,674]                                  | 5.00 [12.70]           | 10.00 [25.40]           | 0.1         |
| <a href="#">PJ075</a> | \$42.50 | <a href="#">PDF</a> | 0.75-0.99 [1.90-2.51]            | 2,800 [12,454]                                 | 5.75 [14.60]           | 10.00 [25.40]           | 0.2         |
| <a href="#">PJ100</a> | \$45.00 | <a href="#">PDF</a> | 1.00-1.24 [2.54-3.15]            | 3,900 [17,347]                                 | 6.50 [16.51]           | 11.50 [29.21]           | 0.3         |



**CAUTION:** Never use grip to approximate breaking strength. Refer to technical data page for safety and working load factors. Banding is necessary to guard against accidental release of grip and provide maximum reliability.

# Technical Data

## Working Load Factors for Wire Mesh Grips

There are many variables associated with the use of wire mesh cable grips. Working load is an estimation of several factors including tension, cable diameter, number of cables gripped, gripping surface and more. Safety factors associated in the product's use must be considered together with the effects of abrasion, corrosion, prior use and abuse and other variables specific to the application.

The appropriate breaking strength of a Bryant® cable grip represents an average calculation based on data established from actual testing performed in our engineering laboratories. Under

normal usage conditions, the recommended factor of safety is 5 for pulling grips and 10 for support grips.

Any warranty as to quality, performance of fitness-for-use of the grips is always premised on the condition that the published strengths apply only to new, unused grips, and that such products are properly stored, handled, used, maintained and inspected by the user at a frequency appropriate for the use and condition of the grip.

### Example

| Grip Style | Part Number             | Approximate Breaking Strength | Safety Factor | Max. Recommended Load |
|------------|-------------------------|-------------------------------|---------------|-----------------------|
| Pulling    | <a href="#">PA075</a>   | 4000 lbs.                     | 5             | 800 lbs.              |
| Support    | <a href="#">SPC150U</a> | 1610 lbs.                     | 10            | 161 lbs.              |

Note: The maximum recommended working load is the greatest tension to be exerted on a grip for any application, with a margin of safety to protect against unforeseen and unusual circumstances.

### Wire Mesh Grip Materials

| Material                       | Features                                                                          | Product Group                                          |
|--------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------|
| Galvanized steel wire          | High strength<br>Not subject to continuous outside environment                    | Pulling grips<br>Bus drop grips<br>Strain relief grips |
| Tin-Coated bronze wire         | Corrosion-resistant for normal outside areas<br>Non-magnetic<br>Moderate strength | Support grips                                          |
| Stainless steel wire [302/304] | Corrosion resistant                                                               | Strain relief grips                                    |

### Applicable Code Requirements:

Bryant Economy Cable Grips meet the following requirements

|             |                                                |
|-------------|------------------------------------------------|
| NEC® 300.19 | Support of conductors in vertical raceways     |
| NEC® 350    | Liquidtight flexible metal conduit termination |
| NEC® 400.14 | Flexible cord and cable protection             |
| NEC® 400.10 | Strain relief at joints and terminals          |

### Operating Temperatures

| Material                   | Temperature Range             |
|----------------------------|-------------------------------|
| Aluminum                   | -40 to +300°F [-40 to +149°C] |
| Aluminum Deluxe Cord Grips | -30 to +240°F [-34 to +115°C] |

### Flammability [Non-metallic deluxe cord Grips will not support combustion]

| Component | Rating   |
|-----------|----------|
| Mesh Grip | UL 94HB  |
| Fitting   | UL 94V-2 |

### Hazardous Locations

|                                                                                                                                                      | Product Categories                                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| The product categories listed on the right are suitable for use in hazardous locations per Class I Div. 2, Class II Div. 1 & 2, Class III Div. 1 & 2 | Deluxe cord grip, aluminum fitting<br>Dust-tight strain relief grips |

### Wet Locations

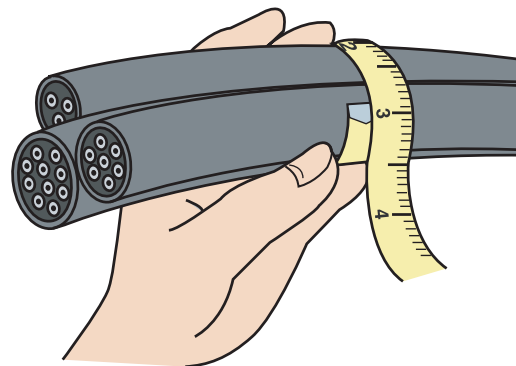
|                                                                                                                                  | Product Categories                 |
|----------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| The products noted to the right are suitable for use in wet locations when a listed sealing ring is used between box and fitting | Deluxe cord grip, aluminum fitting |

# Multiple Cable/Grip Selection Chart

## Multiple Cable Selection Charts for Cables and Wires of Unequal Diameters

### How to choose the correct grip size:

1. Find the grip circumference range by measuring the circumference of the bundle of different diameter cables to be gripped [see illustration].
2. Divide the bundle circumference by 3.14 to determine the diameter.
3. Choose a grip offering a range of cable diameters the same as the cable diameter.



### Selection Chart for Determining Grip Size for Multiple Equal Diameter Cables Held in a Single Grip

1. Under "Number of Cables in One Grip", find the diameter range of your cables in vertical column. Read Grip Size and Grip Diameter Range to the left.
2. If your diameter is the maximum of the range shown, stay with the same size grip.
3. Example: 3 cables, each with 0.89" [2.26 cm] diameter, select a 1.50"-1.74" [3.81 cm - 4.42 cm] range or 150 Grip Size.

| Number of Cables in One Grip |           |                             |                          |                          |                          |                          |                          |                          |                          |
|------------------------------|-----------|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                              | Grip Size | Grip Dia. Range Inches [cm] | 2                        | 3                        | 4                        | 5                        | 6 / 7                    | 8                        | 9                        |
| Pulling and Support          | 50        | 0.50-0.61<br>[1.27-1.55]    | 0.30-0.38<br>[0.76-0.97] | 0.25-0.31<br>[0.63-0.79] | 0.22-0.27<br>[0.56-0.69] | 0.19-0.24<br>[0.48-0.61] | 0.17-0.22<br>[0.43-0.56] | 0.15-0.19<br>[0.38-0.48] | 0.14-0.18<br>[0.36-0.46] |
|                              | 62        | 0.62-0.74<br>[1.57-1.88]    | 0.38-0.44<br>[0.97-1.12] | 0.31-0.36<br>[0.79-0.91] | 0.27-0.31<br>[0.69-0.79] | 0.24-0.29<br>[0.61-0.74] | 0.22-0.26<br>[0.56-0.66] | 0.19-0.23<br>[0.48-0.58] | 0.18-0.21<br>[0.46-0.53] |
|                              | 75        | 0.75-0.99<br>[1.90-2.51]    | 0.44-0.59<br>[1.12-1.50] | 0.36-0.49<br>[0.91-1.24] | 0.31-0.42<br>[0.79-1.07] | 0.29-0.38<br>[0.74-0.97] | 0.26-0.34<br>[0.66-0.86] | 0.23-0.31<br>[0.58-0.79] | 0.21-0.28<br>[0.53-0.71] |
|                              | 100       | 1.00-1.24<br>[2.54-3.15]    | 0.59-0.75<br>[1.50-1.90] | 0.49-0.63<br>[1.24-1.60] | 0.42-0.54<br>[1.07-1.37] | 0.38-0.48<br>[0.97-1.22] | 0.34-0.43<br>[0.86-1.09] | 0.31-0.39<br>[0.79-0.99] | 0.28-0.35<br>[0.71-0.89] |
|                              | 125       | 1.25-1.49<br>[3.17-3.78]    | 0.75-0.90<br>[1.90-2.29] | 0.63-0.76<br>[1.60-1.93] | 0.54-0.65<br>[1.37-1.65] | 0.48-0.58<br>[1.22-1.47] | 0.43-0.52<br>[1.09-1.32] | 0.39-0.46<br>[0.99-1.17] | 0.35-0.42<br>[0.89-1.07] |
|                              | 150       | 1.50-1.74<br>[3.81-4.42]    | 0.90-1.07<br>[2.29-2.72] | 0.76-0.89<br>[1.93-2.26] | 0.65-0.77<br>[1.65-1.96] | 0.58-0.67<br>[1.47-1.70] | 0.52-0.60<br>[1.32-1.52] | 0.46-0.54<br>[1.17-1.37] | 0.42-0.49<br>[1.07-1.24] |
|                              | 175       | 1.75-1.99<br>[4.44-5.05]    | 1.07-1.22<br>[2.72-3.10] | 0.89-1.02<br>[2.26-2.59] | 0.77-0.88<br>[1.96-2.24] | 0.67-0.77<br>[1.70-1.96] | 0.60-0.69<br>[1.52-1.75] | 0.54-0.62<br>[1.37-1.57] | 0.49-0.56<br>[1.24-1.42] |
|                              | 200       | 2.00-2.49<br>[5.08-6.32]    | 1.22-1.53<br>[3.10-3.89] | 1.02-1.28<br>[2.59-3.25] | 0.88-1.10<br>[2.24-2.79] | 0.77-0.96<br>[1.96-2.44] | 0.69-0.86<br>[1.75-2.18] | 0.62-0.77<br>[1.57-1.96] | 0.56-0.71<br>[1.42-1.80] |
|                              | 250       | 2.50-2.99<br>[6.35-7.59]    | 1.53-1.83<br>[3.89-4.65] | 1.28-1.53<br>[3.25-3.89] | 1.10-1.32<br>[2.79-3.35] | 0.96-1.16<br>[2.44-2.95] | 0.86-1.03<br>[2.18-2.62] | 0.77-0.93<br>[1.96-2.36] | 0.71-0.85<br>[1.80-2.16] |
|                              | 300       | 3.00-3.49<br>[7.62-8.86]    | 1.83-2.14<br>[4.65-5.44] | 1.53-1.79<br>[3.89-4.55] | 1.32-1.54<br>[3.35-3.91] | 1.16-1.35<br>[2.95-3.43] | 1.03-1.20<br>[2.62-3.05] | 0.93-1.08<br>[2.36-2.74] | 0.85-0.99<br>[2.16-2.51] |
|                              | 350       | 3.50-3.99<br>[8.89-10.13]   | 2.14-2.44<br>[5.44-6.20] | 1.79-2.05<br>[4.55-5.21] | 1.54-1.76<br>[3.91-4.47] | 1.35-1.54<br>[3.43-3.91] | 1.20-1.37<br>[3.05-3.48] | 1.08-1.24<br>[2.74-3.15] | 0.99-1.13<br>[2.51-2.87] |
|                              | 400       | 4.00-4.49<br>[10.16-11.40]  | 2.44-2.75<br>[6.20-6.98] | 2.05-2.30<br>[5.21-5.84] | 1.76-1.98<br>[4.47-5.03] | 1.54-1.74<br>[3.91-4.42] | 1.37-1.55<br>[3.48-3.94] | 1.24-1.39<br>[3.15-3.53] | 1.13-1.27<br>[2.87-3.23] |
|                              | 450       | 4.50-4.99<br>[11.43-12.67]  | 2.75-3.06<br>[6.98-7.77] | 2.30-2.56<br>[5.84-6.50] | 1.98-2.20<br>[5.03-5.59] | 1.74-1.93<br>[4.42-4.90] | 1.55-1.72<br>[3.94-4.37] | 1.39-1.55<br>[3.53-3.94] | 1.27-1.41<br>[3.23-3.58] |