Protect and control cables and hoses to moving machines.

- Complete cable and hose protection from high temperatures and hot chips.
- Rugged stainless steel sections mechanically riveted for strength.
- Operates in temperatures to 250°F.
- Self-lubricating fiber-reinforced Nylon inner liner provides ultimate protection to cables and hoses.
- Installs in any position.
- Wide range of sizes.
- Economical.

Modular design allows shortening or lengthening PowerFlex, replacing damaged sections or altering mounting brackets, all on site. Polished stainless steel outer shell and smooth, self-lubricating fiber-reinforced Nylon inner liner provides ultimate protection to cables and hoses and promotes long conduit life, even in harsh environments.
**How to Order:**
1. Determine size of PowerFlex carrier needed to accommodate total number of cables and/or hoses required for application. Sum of cross sectional areas of all cables and hoses must not exceed 60% of window area (E on Model Chart below).
2. Compute overall PowerFlex length based on following formula (see drawing at right):

\[ \text{TOTAL MACHINE TRAVEL} + L \]

\[ L = \text{curve length} \] (chart below).
3. Select type of mounting flange for each end from tables below.
4. Develop part number:

**EXAMPLE**

MODEL NO. - OVERALL LENGTH (feet)
MOBILE END BRACKET
APPLICATION ARRANGEMENT (see drawings, right)
FIXED END BRACKET
APPLICATION ARRANGEMENT (see drawings, right)

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>OVERALL LENGTH</th>
<th>MOBILE END BRACKET</th>
<th>APPLICATION ARRANGEMENT</th>
<th>FIXED END BRACKET</th>
<th>APPLICATION ARRANGEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2863-13.7</td>
<td>28.63 feet</td>
<td>13.7 feet</td>
<td>13.7 feet</td>
<td>28.63 feet</td>
<td>13.7 feet</td>
</tr>
<tr>
<td>2040-8.8</td>
<td>20.40 feet</td>
<td>8.8 feet</td>
<td>8.8 feet</td>
<td>20.40 feet</td>
<td>8.8 feet</td>
</tr>
<tr>
<td>1528-9.8</td>
<td>15.28 feet</td>
<td>9.8 feet</td>
<td>9.8 feet</td>
<td>15.28 feet</td>
<td>9.8 feet</td>
</tr>
<tr>
<td>1528-5.9</td>
<td>15.28 feet</td>
<td>5.9 feet</td>
<td>5.9 feet</td>
<td>15.28 feet</td>
<td>5.9 feet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OVERALL LENGTH</th>
<th>MOBILE END BRACKET</th>
<th>APPLICATION ARRANGEMENT</th>
<th>FIXED END BRACKET</th>
<th>APPLICATION ARRANGEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>917-3.9</td>
<td>9.17 feet</td>
<td>3.9 feet</td>
<td>3.9 feet</td>
<td>9.17 feet</td>
</tr>
<tr>
<td>917-2.5</td>
<td>9.17 feet</td>
<td>2.5 feet</td>
<td>2.5 feet</td>
<td>9.17 feet</td>
</tr>
<tr>
<td>2739-7.8</td>
<td>27.39 feet</td>
<td>7.8 feet</td>
<td>7.8 feet</td>
<td>27.39 feet</td>
</tr>
<tr>
<td>2040-11.8</td>
<td>20.40 feet</td>
<td>11.8 feet</td>
<td>11.8 feet</td>
<td>20.40 feet</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OVERALL LENGTH</th>
<th>MOBILE END BRACKET</th>
<th>APPLICATION ARRANGEMENT</th>
<th>FIXED END BRACKET</th>
<th>APPLICATION ARRANGEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2863-7.2</td>
<td>28.63 feet</td>
<td>7.2 feet</td>
<td>7.2 feet</td>
<td>28.63 feet</td>
</tr>
<tr>
<td>2040-8.8</td>
<td>20.40 feet</td>
<td>8.8 feet</td>
<td>8.8 feet</td>
<td>20.40 feet</td>
</tr>
<tr>
<td>1528-9.8</td>
<td>15.28 feet</td>
<td>9.8 feet</td>
<td>9.8 feet</td>
<td>15.28 feet</td>
</tr>
</tbody>
</table>

**Model Chart**

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>A'</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>K</th>
<th>MAX CABLE HOSE DIAMETER (IN.)</th>
<th>WFT. FT.</th>
<th>CURVE LENGTH (IN.)</th>
<th>SELF-SUPPORTING LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>917-2.5</td>
<td>2.5</td>
<td>6.1</td>
<td>1.7</td>
<td>0.98</td>
<td>1.73</td>
<td>2.44</td>
<td>4.50</td>
<td>7.24</td>
<td>0.79</td>
<td>0.85</td>
<td>0.79</td>
<td>2.0</td>
</tr>
<tr>
<td>917-3.9</td>
<td>3.9</td>
<td>6.1</td>
<td>1.7</td>
<td>0.98</td>
<td>1.73</td>
<td>2.44</td>
<td>4.50</td>
<td>8.62</td>
<td>0.79</td>
<td>0.85</td>
<td>0.79</td>
<td>2.0</td>
</tr>
<tr>
<td>1514-3.9</td>
<td>3.9</td>
<td>9.1</td>
<td>1.4</td>
<td>1.51</td>
<td>2.21</td>
<td>3.05</td>
<td>6.00</td>
<td>8.00</td>
<td>1.26</td>
<td>1.10</td>
<td>0.79</td>
<td>2.0</td>
</tr>
<tr>
<td>1514-7.2</td>
<td>7.2</td>
<td>9.1</td>
<td>1.4</td>
<td>1.51</td>
<td>2.21</td>
<td>3.05</td>
<td>6.00</td>
<td>8.00</td>
<td>1.26</td>
<td>1.10</td>
<td>0.79</td>
<td>2.0</td>
</tr>
<tr>
<td>1528-3.9</td>
<td>3.9</td>
<td>9.1</td>
<td>1.4</td>
<td>1.51</td>
<td>2.21</td>
<td>3.05</td>
<td>6.00</td>
<td>8.00</td>
<td>1.26</td>
<td>1.10</td>
<td>0.79</td>
<td>2.0</td>
</tr>
<tr>
<td>1528-7.2</td>
<td>7.2</td>
<td>9.1</td>
<td>1.4</td>
<td>1.51</td>
<td>2.21</td>
<td>3.05</td>
<td>6.00</td>
<td>8.00</td>
<td>1.26</td>
<td>1.10</td>
<td>0.79</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**EXAMPLE**

**MODEL CHART**

<table>
<thead>
<tr>
<th>DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED (See drawings above)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL NO.</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>917-2.5</td>
</tr>
<tr>
<td>917-3.9</td>
</tr>
<tr>
<td>1514-3.9</td>
</tr>
<tr>
<td>1514-7.2</td>
</tr>
<tr>
<td>1528-3.9</td>
</tr>
<tr>
<td>1528-7.2</td>
</tr>
</tbody>
</table>

**APPLICATION ARRANGEMENTS**

Most common arrangement. Fixed end is below and located at midpoint of machine travel and PowerFlex carrier is supported on bottom. Application 1. Two PowerFlex carriers operating in opposite respect to each other. Application 2. Opposite of arrangement (1) in that movable end is below fixed end. Support must be 1/2 length machine travel. Application 3.

**Mounting Configurations**

Mounting configuration must be included as part of model number if scoop or square mounting brackets are required on or both ends (see "How to Order", left). Optional top/bottom flange and side flange styles, available on either end of PowerFlex, are symmetrical. Bracket mounting configuration may be field altered.

**Scoop Mount (SM)**

**Square Mount (SQ)**

**Top & Bottom Flange (TF)**

**Side Flange (SF)**

**Easy Customization and Repair**

Unique modular design allows removal or installation of individual links without special tools.
How to Order:
1. Determine size of PowerFlex carrier needed to accommodate total number of cables and/or hoses required for application. Sum of cross-sectional areas of all cables and hoses must not exceed 60% of window area (E on Model Chart below).

2. Compute overall PowerFlex length based on following formula (see drawing at right):
   \[ \frac{1}{2} \text{TOTAL MACHINE TRAVEL} + L \]
   \[ L \] equals curve length (chart below).

3. Select type of mounting flange for each end from tables below.
4. Develop part number:

   **EXAMPLE**
   
   MODEL NO. OVERALL LENGTH (ft) MOVABLE END BRACKET CONFIGURATION (see drawings, right) FIXED END BRACKET APPLICATION ARRANGEMENT (see drawings, right)
   
   Round length to nearest 1/2 foot.

**Note:** Both carriers must be same opposed in respect to each other.

**Application Arrangements**

Most common arrangement. Fixed end is below and located at midpoint of machine travel and PowerFlex carrier is supported on bottom. Application 1

Two PowerFlex carriers operating in respect to each other. NOTE: Both carriers must be same length. Application 2

Opposite of arrangement 1) in that movable end is below fixed end. Support must be 1/2 length machine travel. Application 3

**Mounting Configurations**

Mounting configuration must be included as part of model number if scoop or square mounting brackets are required on one or both ends (see “How to Order”, left).

Optional top/bottom flange and side flanges, available on either end of PowerFlex, are symmetrical. Mounting bracket configuration may be field altered.

**Top & Bottom Flange (TF)**

**Side Flange (SF)**

**Scoop Mount (GM)**

**Square Mount (SQ)**

**Model Chart**

**Dimensions in inches unless otherwise indicated** (see drawings above)

- **A**
- **C**
- **D**
- **E**
- **F**
- **G**
- **K**

**Model No.**

- **117-2.5**
- **117-3.9**
- **117-5.9**
- **1514-3.9**
- **1528-3.9**
- **1528-5.9**
- **1528-7.8**
- **1528-9.8**
- **1514-3.9**
- **917-2.5**
- **917-3.9**
- **917-5.9**
- **2040-5.5**
- **2040-8.8**
- **2739-6.1**
- **2739-7.8**
- **2863-7.2**
- **2863-10.7**
- **2863-13.7**

**Fixed End Bracket Configuration**

- **Configuration A**
- **Configuration B**
- **Configuration C**
- **Configuration D**
- **Configuration E**
- **Configuration F**

**Fixed End Standard**

**Movable End Opposed**

**APPLICATION**

- **1**
- **2**
- **3**

**SUPPORT**

- **Fixed End Support**
- **Movable End Support**

**Support = 1/2 Travel**

**Vertical travel with loop up.**

**Vertical travel with loop down.**

**EASY CUSTOMIZATION AND REPAIR**

Unique modular design allows removal or installation of individual links without special tools.

**COMBINATION TRAVEL**

**Vertical–Loop Up**

**Vertical–Loop Down**

**R/R**

**R**

**R**

**COMBINATION TRAVEL**

**Vertical travel with loop up.**

**Vertical travel with loop down.**
Protect and control cables and hoses to moving machines.

- Complete cable and hose protection from high temperatures and hot chips.
- Rugged stainless steel sections mechanically riveted for strength.
- Operates in temperatures to 250°F.

- Self-lubricating fiber-reinforced Nylon inner liner provides ultimate protection to cables and hoses.
- Installs in any position.
- Wide range of sizes.
- Economical.

Gleason Reel Corp.
600 South Clark Street
Mayville, WI 53050
Phone: 920-387-4120 • Fax: 920-387-4189

Enclosed conduit cable and hose carrier for machine tools, robots and material handling equipment.

Modular design allows shortening or lengthening PowerFlex, replacing damaged sections or altering mounting brackets, all on site. Polished stainless steel outer shell and smooth, self-lubricating fiber-reinforced Nylon inner liner provides ultimate protection to cables and hoses and promotes long conduit life, even in harsh environments.