**PARTS LIST**

**FLAT CABLE FESTOON COMPONENTS**

<table>
<thead>
<tr>
<th>TROLLEY</th>
<th>TOW CLAMP</th>
<th>END CLAMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>FPT-06</td>
<td>#W25–FT-02</td>
<td>#W25–FE-02</td>
</tr>
<tr>
<td>Description: Fiberglass reinforced molded nylon with zinc plated steel cable clamp.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ROUNDED CABLE & HOSE FESTOON COMPONENTS**

<table>
<thead>
<tr>
<th>TROLLEY</th>
<th>TOW CLAMP</th>
<th>END CLAMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>W25-RT-02</td>
<td>W25–RE-02</td>
<td>W25–FE-02</td>
</tr>
<tr>
<td>W25-RT-03</td>
<td>W25–RE-03</td>
<td>W25–FE-03</td>
</tr>
</tbody>
</table>

Description: Steel with zinc plating.

**INSTALLATION and MAINTENANCE INSTRUCTIONS**

**WIRE ROPE FESTOON KITS with NYLON TROLLEYS**

**WARNING**

Failure to read, understand, and follow these installation instructions may result in damage to festoon or personal injury.

**TROLLEY INSTALLATION**

**TENSION BRACKET**

Securely fasten bracket must be able to withstand minimum 1050 lbs. (473 kg) lateral force. Improper mounts could give way, causing damage or personal injury.

**STEPS**

1. Mount tension brackets or other suitable device for holding stretched wire rope. See Figure 3.

2. Install eye-bolts in tension brackets with end clamps on fixed cable end of system only. See Figure 3. Eye bolt should protrude maximum 0.25" (6mm) through nut (Fig. 4).

3. Slide rubber bumper onto wire rope. Thread wire rope through eye bolt on one end of system. Install thimble in loop. Secure wire rope with two (2) cable clamps. See Figure 3. Repeat on other end, pulling wire rope as tight as possible before securing.

4. Tighten wire rope by turning nuts on eye-bolts. See Figure 4.

5. Install tow bar on crane or moving machine with slot in tow bar facing downward. End of tow bar must be beneath wire rope and extend beyond wire rope minimum of 2". Affix tow clamp to under side of tow bar. See Figure 5.

6. Lay-out trolleys on floor. Install cable or hose in trolley hangers allowing for: 1–Three foot loop depth. 2–One additional loop between first intermediate trolley and end clamp. 3–One additional loop between last trolley and tow clamp. 4–Length at hangers allowing for: 1–Three foot loop depth. 2–One additional loop between last trolley and tow clamp. Complete hook-up. Tension festoon by moving thru full Active Travel. Adjust loop depth as required for best operation.

7. Affix cable or hose to end clamp and tow clamp and complete hook-up. Test festoon by moving thru full Active Travel. Adjust loop depth as required for best operation.

8. Tighten clamps to secure cable or hose.

**TROLLEY REMOVAL**

To install trolley – Place top section in position on wire rope. Slide sections together until they snap click in place.

To remove – Insert small, straight bladed screwdriver into slot beside cable opening, rotate 90° on side of trolley and pry gently as shown above. Do not turn screwdriver. Slide Apart.

**NOTE:** Sections may be assembled in only one way. Slide “un-blocked” end into “un-blocked” end.
**ROUND CABLE FESTOON INSTALLATION DIAGRAM**

- System Length (SL)
- Storage Distance (SD)
- Active Travel (AT)

**ROUND CABLE & HOSE KITS**

<table>
<thead>
<tr>
<th>Loop Depth</th>
<th>System Length (SL)</th>
<th>Storage Distance (SD)</th>
<th>Minimum Cable Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>30&quot;</td>
<td>48&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Add cable or hose to each end

**Example:**
- FF08 = 30" or 48" loop depths only and are provided as guide. Kits include necessary components for festoon system with 48" loop depth at system length shown. Very loop depth or cable length to suit application. Shorter loop depth = shorter active travel.

**Legend**
- AT = Active Travel
- SL = System Length
- SD = Storage Distance
- LD = Loop Depth

---

**FLAT CABLE FESTOON INSTALLATION DIAGRAM**

- System Length (SL)
- Storage Distance (SD)
- Active Travel (AT)

**FLAT CABLE KITS**

<table>
<thead>
<tr>
<th>Loop Depth</th>
<th>System Length (SL)</th>
<th>Storage Distance (SD)</th>
<th>Minimum Cable Required</th>
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<td>30&quot;</td>
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- Add cable or hose to each end

**Example:**
- FF08 = 30" or 48" loop depths only and are provided as guide. Kits include necessary components for festoon system with 48" loop depth at system length shown. Very loop depth or cable length to suit application. Shorter loop depth = shorter active travel.

---

**Legend**
- AT = Active Travel
- SL = System Length
- SD = Storage Distance
- LD = Loop Depth
### ROUND CABLE & HOSE KITS

<table>
<thead>
<tr>
<th>LOOP DEPTH</th>
<th>ACTIVE TRAVEL (AT) KIT NO.</th>
<th>SYSTEM LENGTH (SL)</th>
<th>STORAGE DISTANCE (SD)</th>
<th>MINIMUM CABLE REQUIRED (MC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30” 48”</td>
<td>FROP-02</td>
<td>10” 18”</td>
<td>21” 21”</td>
<td>16” 25”</td>
</tr>
<tr>
<td></td>
<td>FROP-03</td>
<td>14” 24”</td>
<td>25” 25”</td>
<td>22” 34”</td>
</tr>
<tr>
<td></td>
<td>FROP-04</td>
<td>17” 30”</td>
<td>28” 28”</td>
<td>27” 42”</td>
</tr>
<tr>
<td></td>
<td>FROP-05</td>
<td>21” 37”</td>
<td>32” 32”</td>
<td>32” 60”</td>
</tr>
<tr>
<td></td>
<td>FROP-06</td>
<td>25” 43”</td>
<td>35” 35”</td>
<td>38” 58”</td>
</tr>
<tr>
<td></td>
<td>FROP-07</td>
<td>28” 49”</td>
<td>39” 39”</td>
<td>43” 67”</td>
</tr>
<tr>
<td></td>
<td>FROP-08</td>
<td>32” 55”</td>
<td>42” 42”</td>
<td>46” 75”</td>
</tr>
</tbody>
</table>

**KIT NUMBER EXPLANATION**

Example: FR04 – 03 Round cable/hose festoon – Three trolleys

Size 4 saddle*

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*Saddle sizes:

FR04 = 0.30” (7mm) to 0.59” (15mm) OD cable/hose.
FR05 = 0.60” (15mm) to 0.84” (24mm) OD cable/hose.

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### FLAT CABLE KITS

<table>
<thead>
<tr>
<th>LOOP DEPTH</th>
<th>ACTIVE TRAVEL (AT) KIT NO.</th>
<th>SYSTEM LENGTH (SL)</th>
<th>STORAGE DISTANCE (SD)</th>
<th>MINIMUM CABLE REQUIRED (MC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30” 48”</td>
<td>FFOB-02</td>
<td>12” 20”</td>
<td>23” 23”</td>
<td>21” 21”</td>
</tr>
<tr>
<td></td>
<td>FFOB-03</td>
<td>16” 27”</td>
<td>27” 27”</td>
<td>25” 25”</td>
</tr>
<tr>
<td></td>
<td>FFOB-04</td>
<td>20” 33”</td>
<td>33” 33”</td>
<td>28” 28”</td>
</tr>
<tr>
<td></td>
<td>FFOB-05</td>
<td>24” 40”</td>
<td>40” 40”</td>
<td>32” 32”</td>
</tr>
<tr>
<td></td>
<td>FFOB-06</td>
<td>28” 47”</td>
<td>51” 51”</td>
<td>35” 35”</td>
</tr>
<tr>
<td></td>
<td>FFOB-07</td>
<td>32” 54”</td>
<td>58” 58”</td>
<td>39” 39”</td>
</tr>
<tr>
<td></td>
<td>FFOB-08</td>
<td>36” 60”</td>
<td>66” 66”</td>
<td>42” 42”</td>
</tr>
</tbody>
</table>

**KIT NUMBER EXPLANATION**

Example: FF08 – 03 Flat cable festoon – Three trolleys

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*Notice:

(1) Cable length listed in chart is enough for ACTIVE TRAVEL only, measured centerline to centerline; see diagram above. ADD cable or hose to each end as required for hook-up to your system.

(2) Active travel, system length and minimum cable values on charts are for 30” or 48” loop depths only and are provided as guide. Kits include necessary components for festoon system with 48” loop depth at system length shown. Very loop depth or cable length to suit application. Shorter loop depth a shorter active travel.
**INSTALLATION and MAINTENANCE INSTRUCTIONS**

**WIRE ROPE FESTOON KITS with NYLON TROLLEYS**

**WARNING**
Failure to read, understand, and follow these installation instructions may result in damage to festoon or personal injury.

**TROLLEY INSTALLATION**

1. **STEP 1–** Mount tension brackets or other suitable device for holding stretched wire rope. See Figure 3.

2. **STEP 2–** Install eye-bolts in tension brackets with end clamp on fixed cable end of system only. See Figure 3. Eye-bolt should protrude maximum 0.25” (6mm) through nut (Fig. 4).

3. **STEP 3–** Slide rubber bumper onto wire rope. Thread wire rope through eye-bolt on one end of system. Install thimble in loop. Secure wire rope with two (2) cable clamps. See Figure 3. Repeat on other end, pulling wire rope as tight as possible before securing.

4. **STEP 4–** Tighten wire rope by turning nuts on eye-bolts. See Figure 4.

5. **STEP 5–** Install tow bar on crane or moving machine with slot in tow bar facing downward. End of tow bar must be beneath wire rope and extend beyond wire rope minimum of 2”. Affix tow clamp to under side of tow bar. See Figure 5.

6. **STEP 6–** Lay-out trolleys on floor. Install cable or hose in trolley hangers allowing for: 1–Three foot loop depth. 2–One additional loop between first intermediate trolley and end clamp. 3–One additional loop between last trolley and tow clamp. 4–Length at each end for hook up. Tighten clamps until just snug.

7. **STEP 7–** Slide bumper to fixed cable end of wire rope. Raise assembled festoon to wire rope and attach trolleys as shown in Figure 1.

8. **STEP 8–** Affix cable or hose to end clamp and tow clamp and complete hook-up. Test festoon by moving thru full Active Travel. Adjust loop depth as required for best operation.

9. **STEP 9–** Tighten clamps to secure cable or hose.

**TROLLEY REMOVAL**

1. **STEP 1–** Pry gently. Do not turn screwdriver. Slide Apart.

2. **STEP 2–** Insert small, straight bladed screwdriver into slot beside cable opening (not slit on side of trolley). Pry gently as shown above. Do not turn screwdriver. Slide Apart.

**NOTE:** Sections may be assembled in only one way. Slide “un-blocked” end into “un-blocked” end of system only. Eye-bolt should protrude maximum 0.25” (6mm) through nut (Fig. 4).