Since 1911, Gleason Reel Corp. has been in the business of CABLE MANAGEMENT. Our products are designed to convey and protect valuable cables and hoses that power and control moving machines of all types. They improve productivity and safety on the job by moving cables and hoses away from hazardous locations on machinery or the shop floor into a controlled environment. Whether you choose Reels for efficient storage and payout from virtually any angle, Festoon Systems for overhead applications or PowerTrak® for protection on machinery in motion, your cables and/or hoses will last longer and provide better service with a cable management system from Gleason Reel Corp. …The Cable & Hose Management Company!
Track-Master™ Festoon Systems are available in three sizes, as shown above, and with either clips for round cables/hoses (series C40-C, C50-C only), cable clips for flat cables (series C40-F, C50-F, and C60-F), or specially designed clips for holding a mixed load of hoses, round cables and flat cables (series C50-M and C60-M only). See complete technical data in this catalog. Complete line of I-Beam festoons also available... Contact your local Gleason representative today!

### Industrial Duty Festoon Systems

**Series C40-C and C50-C**
- Designed for hose or round cable with 0.31"-2.38" O.D. depending on clip and series specified. One cable or hose per clip. Available with one, two or three clips per trolley. Refer to pages 10 and 14 for more information.

**Series C40-F, C50-F and C60-F**
- Designed for flat cable with 6.5" maximum cable width, depending on series. Will hold multiple flat cables as long as stacked width does not exceed 6.5" and overall stack height is not greater than 2.3". See pages 12, 16 and 21 for more details.

**Series C50-M and C60-M**
- Designed for mixed load...a combination of hoses and round or flat cables with overall package width of 8.5" or less. Diameters of all hoses or round cables or height of flat cables in package must not vary more than 0.25". Hoses or round cables may not be stacked. See data on pages 19 and 24.

### Round Cable & Hose Data

#### TYPE SO CABLE — 600 VOLT

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
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<th></th>
<th></th>
</tr>
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<tbody>
<tr>
<td>16</td>
<td>16</td>
<td>0.085</td>
<td>0.177</td>
<td>12</td>
<td>0.119</td>
<td>0.212</td>
<td>10</td>
<td>0.145</td>
<td>0.253</td>
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<td>0.172</td>
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<tr>
<td>14</td>
<td>0.105</td>
<td>0.197</td>
<td>0.316</td>
<td>0.15</td>
<td>0.237</td>
<td>0.423</td>
<td>0.12</td>
<td>0.279</td>
<td>0.509</td>
<td>0.095</td>
<td>0.316</td>
<td>0.665</td>
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#### TYPE W Cable — 600 Volt

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<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>0.140</td>
<td>0.207</td>
<td>0.509</td>
<td>0.12</td>
<td>0.250</td>
<td>0.625</td>
<td>0.095</td>
<td>0.286</td>
<td>0.689</td>
<td>0.075</td>
<td>0.250</td>
<td>0.750</td>
</tr>
</tbody>
</table>

#### TYPE W-GC Cable — 600 Volt

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<th></th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>0.140</td>
<td>0.207</td>
<td>0.509</td>
<td>0.12</td>
<td>0.250</td>
<td>0.625</td>
<td>0.095</td>
<td>0.286</td>
<td>0.689</td>
<td>0.075</td>
<td>0.250</td>
<td>0.750</td>
</tr>
</tbody>
</table>

### Cable/Hose Weight

- For complete listings for single hydraulic hose do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/Hose Weight. Whenever possible, refer to specific manufacturer’s information regarding cable or hose. If this information is not available, these charts are compositions and may be used by guides to typical cable and hose size and weights.

#### hose GENERAL PURPOSE

- Listings for general purpose hose do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/Hose Weight.

#### Hose SINGLE HYDRAULIC

- Listings for single hydraulic hose do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/Hose Weight.

### Contact Us

Gleason Reel Corp.
300 comparison Lane
Columbus, Ohio 43202

**Contact your local Gleason representative today!**
### FLAT CABLE GLANDS

#### NEOPRENE FLAT CABLE

<table>
<thead>
<tr>
<th>AWG No.</th>
<th>Cond.</th>
<th>Thick x Width</th>
<th>Weight lb/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>4</td>
<td>0.205 x 0.600</td>
<td>0.107</td>
</tr>
<tr>
<td>10</td>
<td>4</td>
<td>0.255 x 0.705</td>
<td>0.120</td>
</tr>
<tr>
<td>8</td>
<td>5</td>
<td>0.215 x 0.625</td>
<td>0.120</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
<td>0.285 x 0.975</td>
<td>0.200</td>
</tr>
<tr>
<td>4</td>
<td>5</td>
<td>0.355 x 1.140</td>
<td>0.300</td>
</tr>
</tbody>
</table>

#### PVC FLAT CABLE

<table>
<thead>
<tr>
<th>AWG No.</th>
<th>Cond.</th>
<th>Thick x Width</th>
<th>Weight lb/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>4</td>
<td>0.205 x 0.625</td>
<td>0.107</td>
</tr>
<tr>
<td>8</td>
<td>5</td>
<td>0.215 x 0.625</td>
<td>0.120</td>
</tr>
<tr>
<td>12</td>
<td>5</td>
<td>0.245 x 0.895</td>
<td>0.200</td>
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<tr>
<td>14</td>
<td>5</td>
<td>0.245 x 0.895</td>
<td>0.200</td>
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### MULTI-CABLE GLAND

#### Cast Aluminum

#### GL-MA-CC Cutting charge

<table>
<thead>
<tr>
<th>Code</th>
<th>G</th>
<th>W</th>
<th>D</th>
<th>Clearance Hole Req'd</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>1.14</td>
<td>0.906</td>
<td></td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>1.81</td>
<td>1.469</td>
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<td></td>
</tr>
<tr>
<td>36</td>
<td>2.21</td>
<td>1.875</td>
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<td>42</td>
<td>2.14</td>
<td>1.77</td>
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<tr>
<td>48</td>
<td>2.72</td>
<td>2.375</td>
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### ROUND CABLE GLANDS

#### Brass

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Code</th>
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<th>W</th>
<th>G</th>
<th>Clearance Hole Req'd</th>
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<tbody>
<tr>
<td>GL-FB</td>
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<td>0.196</td>
<td>0.315</td>
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<td></td>
<td>11</td>
<td>0.275</td>
<td>0.492</td>
<td>0.93</td>
<td>0.750</td>
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<td>0.275</td>
<td>0.590</td>
<td>1.00</td>
<td>0.812</td>
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<tr>
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<td>16</td>
<td>0.315</td>
<td>0.630</td>
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<td>21</td>
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<td>48</td>
<td>1.594</td>
<td>1.988</td>
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<td>2.375</td>
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#### Plastic

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Code</th>
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<th>G</th>
<th>Clearance Hole Req'd</th>
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</thead>
<tbody>
<tr>
<td>GL-FP</td>
<td>07</td>
<td>0.095</td>
<td>0.265</td>
<td>0.72</td>
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<tr>
<td></td>
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<td>0.187</td>
<td>0.312</td>
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<td>13</td>
<td>0.270</td>
<td>0.480</td>
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<tr>
<td></td>
<td>16</td>
<td>0.428</td>
<td>0.546</td>
<td>1.14</td>
</tr>
<tr>
<td></td>
<td>21</td>
<td>0.545</td>
<td>0.709</td>
<td>1.40</td>
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<tr>
<td></td>
<td>29</td>
<td>0.709</td>
<td>1.000</td>
<td>1.81</td>
</tr>
</tbody>
</table>

### Cable Window Size

- 1.50" x 5.12" Max.
- Machined to suit.

### WARRANTY

Gleason warrants for a period of twelve (12) months after date of shipment, all goods manufactured by it to be free from defects in material and workmanship. If, within such warranty period, any such goods are proved to be defective, such goods shall be repaired or, at Gleason’s option, replaced f.o.b. Gleason’s factory, without charge. Gleason’s obligation hereunder shall be confined to such repair or replacement and shall be further conditioned upon Gleason receiving written notice of any alleged defect within 10 days after its discovery and, at Gleason’s option, the return of the alleged defective goods to Gleason, f.o.b. its factory.

The foregoing warranty shall not apply to goods not manufactured by Gleason, or to goods which shall have been repaired or altered by others than Gleason so as to, in Gleason’s judgement, adversely affect the same, or which shall have been subject to other than normal use of service, negligence, accident, or improper maintenance care, or storage. With respect to goods furnished but not manufactured by Gleason, the warranty obligations of Gleason shall in all respects conform and be limited to the warranty extended to Gleason by the supplier.

The foregoing warranty is in lieu of all other express or implied warranties (except of title) and of all other obligations of Gleason.

### Let Us Recommend a System Based on Your Data...

Gleason’s sophisticated computer program selects the appropriate festoon system based on data contained in this catalog as well as information supplied about your specific requirement. Local factory sales representatives have this program and are available for prompt response to your festoon needs. Please use the work sheet inside to transmit all required data. Send or fax the form to your local Gleason representative or directly to the Gleason factory.

### Contents

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- Festoon Types in This Catalog: 2
- Application Photos: 4–5
- System Layout, Terminology: 6–7
- Cable and Hose Application Guidelines: 7
- Options: 27
- Accessories: 28–29
- Cable and Hose Data: 30–31
- Gleason Reel Product Line: 32

#### Technical Data
- C40 c Series: 10–11
- C40 f Series: 12–13
- C50 c Series: 14–15
- C50 f Series: 16–18
- C50 m Series: 19–20
- C60 f Series: 21–23
- C60 m Series: 24–26

#### Ordering
- Input for Application Program: 8
- Order Form: 9
Tow Chains are straight link No. 2/0 machine chain with zinc plate finish. Standard hardware is zinc plated steel. Load limit is 350 lbs.

Junction Box WALL AND RAIL MOUNTED

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>CODE</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>JB - 02 - W</td>
<td>10</td>
<td>10.00</td>
<td>8.00</td>
<td>4.00</td>
</tr>
<tr>
<td>JB - 04 - W</td>
<td>12</td>
<td>12.00</td>
<td>10.00</td>
<td>5.00</td>
</tr>
<tr>
<td>JB - 04X - W</td>
<td>14</td>
<td>14.00</td>
<td>12.00</td>
<td>6.00</td>
</tr>
<tr>
<td>JB - 12 - W</td>
<td>16</td>
<td>16.00</td>
<td>14.00</td>
<td>6.00</td>
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</table>

Substitute code above for "❑" to complete Model Number.

Terminal Blocks

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>S</th>
<th>MAX RATED AMPERES</th>
<th>FOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB - 050</td>
<td>0.38</td>
<td>15 #24 thru #10</td>
<td></td>
</tr>
<tr>
<td>TB - 090</td>
<td>0.56</td>
<td>15 #8 thru #6</td>
<td></td>
</tr>
<tr>
<td>TB - 155</td>
<td>0.75</td>
<td>15 #4 thru #2</td>
<td></td>
</tr>
<tr>
<td>TB - 270</td>
<td>1.19</td>
<td>270 #1 thru #3/0</td>
<td></td>
</tr>
</tbody>
</table>

Substitute code above for "❑" to complete Model Number.

Rail Endstop Assemblies

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>HEIGHT</th>
<th>BOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40-ES-Z</td>
<td>3.00</td>
<td>0.88</td>
<td>0.88</td>
<td></td>
</tr>
<tr>
<td>C50-ES-Z</td>
<td>2.25</td>
<td>1.18</td>
<td>1.18</td>
<td></td>
</tr>
<tr>
<td>C60-ES-Z</td>
<td>4.00</td>
<td>1.75</td>
<td>2.25</td>
<td></td>
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</table>

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

Vinyl End Caps

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>DIAMETER</th>
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<tbody>
<tr>
<td>C40 - EC</td>
<td>1.50</td>
</tr>
<tr>
<td>C50 - EC</td>
<td>1.88</td>
</tr>
<tr>
<td>C60 - EC</td>
<td>2.38</td>
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</table>

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

Substitute desired length in FEET for "❑" to complete Model Number. Round up in half-foot increments.
**A accessories**

**Ty-Raps**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BUNDLE RANGE</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>TY - 08</td>
<td>0.19 - 2.00</td>
<td>8.00</td>
</tr>
<tr>
<td>TY - 13</td>
<td>0.19 - 3.50</td>
<td>13.88</td>
</tr>
<tr>
<td>TY - 30</td>
<td>1.50 - 9.00</td>
<td>30.00</td>
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</table>

Ty-Raps are black nylon with unlocking tensile strength of 120 lbs.

**Cable Clamps**

**FLAT CAMP DESIGN**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WINDOW V</th>
<th>WIDTH W</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-F01-Z</td>
<td>1.88</td>
<td>3.75</td>
</tr>
<tr>
<td>CL-F02-Z</td>
<td>2.62</td>
<td>4.50</td>
</tr>
<tr>
<td>CL-F05-Z</td>
<td>5.00</td>
<td>6.88</td>
</tr>
<tr>
<td>CL-F06-Z</td>
<td>6.56</td>
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</tr>
<tr>
<td>CL-F08-Z</td>
<td>8.56</td>
<td>10.44</td>
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</tbody>
</table>

**MIXED CAMP DESIGN**

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<th>WINDOW V</th>
<th>WIDTH W</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-M01-Z</td>
<td>1.88</td>
<td>3.75</td>
</tr>
<tr>
<td>CL-M02-Z</td>
<td>2.62</td>
<td>4.50</td>
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<tr>
<td>CL-M05-Z</td>
<td>5.00</td>
<td>6.88</td>
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<td>CL-M06-Z</td>
<td>6.56</td>
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<tr>
<td>CL-M08-Z</td>
<td>8.56</td>
<td>10.44</td>
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</tbody>
</table>

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

**Track Hardware**

**Terminal Blocks**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WIDTH W</th>
<th>HEIGHT H</th>
<th>THICKNESS T</th>
</tr>
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<tbody>
<tr>
<td>C40 - TR - Q</td>
<td>1.260</td>
<td>1.180</td>
<td>0.079</td>
</tr>
<tr>
<td>C50 - TR - Q</td>
<td>1.575</td>
<td>1.575</td>
<td>0.109</td>
</tr>
<tr>
<td>C60 - TR - Q</td>
<td>1.968</td>
<td>1.968</td>
<td>0.123</td>
</tr>
</tbody>
</table>

Substitute length (06, 12, 18 ft) for "Q" to complete model number.

**Terminal Blocks**

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>LENGTH L</th>
<th>WIDTH W</th>
<th>HEIGHT H</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40 - CP - Z</td>
<td>4.00</td>
<td>1.59</td>
<td>1.47</td>
</tr>
<tr>
<td>C50 - CP - Z</td>
<td>5.00</td>
<td>2.00</td>
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</tr>
<tr>
<td>C60 - CP - Z</td>
<td>6.25</td>
<td>2.39</td>
<td>2.39</td>
</tr>
</tbody>
</table>

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

---

NO NEED TO SEARCH FOR THE CORRECT ACCESSORY MODEL!

When the Gleason festoon computer program elects a system, you simply indicate which accessories you desire and the correct model number will be selected for you and identified on the OUTPUT page.

These pages provide support data.

---

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED.

---

Ty-Raps are black nylon with unlocking tensile strength of 120 lbs.

Clamping pads are neoprene. Hardware is Zinc-plated steel. Finish is orange polyester powder.

---

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

---

Terminal blocks are made of black nylon with stainless steel hardware. Substitue "S" for "Z" in model numbers above.

---

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

---

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.
**Typical C-Rail System**

**GENERAL LAYOUT • DEFINITIONS • DESCRIPTIONS • TERMS • SYMBOLS**

**SYSTEM IN STORED POSITION**
- Flat cable shown. Round cable/hose similar.
- Minimum Storage Distance (SD): Horizontal area required for storing system when fully retracted (loop depth is at maximum).
- Total System Length (SL): Equal to total Rail Length (RL).
- SL = RL

**SYSTEM IN EXTENDED POSITION**
- Flat cable shown. Round cable/hose similar.
- Intermediate Trolley: Joins two sections of C-Trak.
- Running Gear: Wheels carrying trolleys. Selection based upon your input-weight carried, speed and acceleration of system and special environmental or other wear considerations.
- Coupler: Joins sections of C-Trak. Side adjustable for precise alignment.
- Cable Saddle: Standard on all trolleys, clamp to junction box (FB). Cables required to reach from end clamp to junction box.

**END CLAMP**
- Solid attachment point for cable at fixed end of system. One per system.
- Extra Cable-Fixed End (FC): Cable required to reach from end clamp to junction box (FB).
- Fixed Cable Termination (FB): Junction box (terminal strips optional).

**FIXED END (FE)**

**FIXED CABLE**
- torpedo galvanized steel track sections support entire system weight.

**TERMINATION (FB)**
- Maximum distance first moving carrier (Tow Trolley or Control Unit Trolley) moves from fully stored position to fully extended. Usable length of system.

**TERMINATION (MB)**
- Minimum 5" clearance should be maintained between bottom of loops and any fixed obstructions in total system length.

**TERMINATION (ME)**
- Fixed termination optional.

**TERMINATION (FC)**
- Cable required to reach from end clamp to junction box.

**TERMINATION (MC)**
- Moving cable. Moving end (ME) clamp required to reach from tow trolley to junction box.

**END STOP**
- Secured inside E-Trak. Prevents control unit trolley from overtraveling.

**LOOP DEPTH (LD)**
- Distance from top of C-rail track to bottom of cable loops.

**CLEARANCE**
- Minimum 5" clearance should be maintained between bottom of loops and any fixed obstructions in total system length.

**TOTAL SYSTEM LENGTH (SL)**
- Equal to total RAIL LENGTH (RL).

**ACTIVE TRAVEL DISTANCE (AT)**
- Maximum distance first moving carrier (Tow Trolley or Control Unit Trolley) moves from fully stored position to fully extended. Usable length of system.

**OPTIONS A VAILABLE**

Options are available for most typical festoon requirements and many truly special situations. These pages list a few of the most commonly requested options. If you don’t see what you need, JUST CALL!

1. **Other Wheel Materials**
   - Wheel materials are listed on each system series “spread” (i.e. Series C50-F on page 18) by specific item.

2. **Stainless Steel Hardware**
   - Available on all series as noted on series spread.

3. **Finishes**
   - Standard Gleason finish is thermoset polyester powder coating. Independent laboratory salt spray test result indicate our standard finish shows no sign of corrosion at 598 hours vs. hot-dipped galvanized finish, which failed at 168 hours under identical conditions. Standard color is “safety orange”.

**OTHER FINISHES**
- Other finishes may be specified to suit unique conditions. When specifying other finishes, please provide detailed specifications, as finishes tend to be a localized matter to satisfy local conditions. For example, inland suppliers may not easily identify coastal spec, etc.

4. **Curved Festoon Systems**
   - Festoon systems for curved applications require special attention. Please contact us with your specific need. See photo at right.

5. **Non-standard Designs**
   - Non-standard designs are available to meet your application requirements. Contact us with specification details.

6. **Pre-assembly and Shipping Frame**
   - Gleason offers complete factory pre-assembly of your festoon system. Experienced personnel will assemble all of the system components into their proper operating relationships. This reduces on-site installation time costs and possible installer confusion.
   - Your system will be shipped to you mounted on a shipping frame which is designed to allow your installation crew to transfer the components directly onto your C-Rail.
### Tow Trolley

**Standard...One Required**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Saddle-Radius Diameter</th>
<th>Window Height</th>
<th>Window Width</th>
<th>Overall Length</th>
<th>Overall Width</th>
<th>Overall Height</th>
<th>Track Locator Width</th>
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<tbody>
<tr>
<td>C60-M12-3108T-Z-S</td>
<td>6.30 12.59 1.19</td>
<td>8.56 17.62</td>
<td>6.69</td>
<td>45.06</td>
<td>10.25</td>
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<td>45.06</td>
<td>10.25</td>
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**Optional...Replaces Tow Trolley**

<table>
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<th>Model Number</th>
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</table>

### Control Unit Trolley

**Optional...Replaces Tow Trolley**

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<td>45.06</td>
<td>10.25</td>
<td>5.00</td>
<td>14.59</td>
</tr>
</tbody>
</table>

**C-Rail**

Galvanized Standard. Stainless steel optional on C40 systems.

**Trolley Body**

Standard finish is baked on orange polyester powder coating.

**Saddle**

For flat cable or mixed bundle. Standard finish is baked on orange polyester powder coating.

**Clip**

For hose or round cable. Standard finish is zinc plating.

### Cable & Saddle Guidelines

1. **Bending Cable (All saddles and clips)**

   For good service and long life, it is best to follow the rule: "BIG BENDS ARE BEST". Cable producers vary in applying a multiplier. Gleason uses the chart below.

<table>
<thead>
<tr>
<th>Cable O.D.</th>
<th>MIN. RADIUS</th>
<th>MIN. SADDLE DIA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 0.3 in</td>
<td>Over 0.3 x O.D</td>
<td>Over 8 x O.D.</td>
</tr>
<tr>
<td>Under 0.5 in</td>
<td>4 x O.D</td>
<td>8 x O.D.</td>
</tr>
<tr>
<td>Above 0.5 in</td>
<td>5 x O.D</td>
<td>10 x O.D.</td>
</tr>
</tbody>
</table>

2. **Cable O.D. Variations (Type M saddles)**

   Variations in cable size (O.D.) should be kept to a minimum. Clamp is most effective when all cables/hoses are the same O.D. or close as in figure 1. This ensures secure clamping. Wide variation in O.D. (Fig. 2) makes clamping difficult and cable/hose may not remain secure on the saddle.

3. **Balance in Loading Cable (Type M saddles)**

   This is important for smooth running, long bearing life and component alignment. Distribute the load evenly, with the heaviest cables nearest the centerline.

4. **Flat Cable Stacking (Type F saddles)**

   a) **Secure Clamping**

   EXTREMELY IMPORTANT: At least 50% of the cable surface must be under clamp pressure.

   b) **Height Consideration**

   Flat cable stacking is best when width is 3 or 4 times height (Fig. 5 & 6, above). High stacking can work as long as equal pressure is applied to all cables (Fig. 8).

   c) **Configuration**

   BIG CABLE ON TOP (Fig. 9) provides maximum bending radius for largest cables, improves heat dissipation for power cables and transfers pulling force to largest cables when tow chains are not used.

---

**Running Gear**

Steel standard. Bronze or stainless steel available.

**C-Rail**

Galvanized Standard. Stainless steel optional on C40 systems.

**Trolley Body**

Standard finish is baked on orange polyester powder coating.

**Saddle**

For flat cable or mixed bundle. Standard finish is baked on orange polyester powder coating.

**Clip**

For hose or round cable. Standard finish is zinc plating.
Input Required when Ordering

The following information is required so the Gleason computer software can recommend and quote the ideal festoon system for your application. Enter the data on the form at right and fax to your local Gleason Representative or directly to the Gleason factory at 920-387-3419.

CABLE/HOSE PACKAGE: Properly sizing a festoon system for the cable/hose it will carry is the only way to assure satisfactory operation and long life. Please fill in all known information about each size and type of cable or hose to be carried by your system. The information for the grey areas will be computer generated based on your input and published industry averages. Compare the cable/hose you will be using with the "Cable & Hose Data" in the back of this catalog. If the cable or hose you will be using is unusual in any way, insert the proper data as provided by the cable/hose manufacturer in the appropriate blank. The information for the grey areas will be computer generated based on your input and published industry averages.

SYSTEM PARAMETERS: How far must your system travel? At what speed? With how much acceleration? This is all data that must be known to properly apply a festoon system. See "Typical C-Rail System" (Page 6) for definitions and explanations of required information. Enter data on form at right.

OPTIONS: Included are such items as type of tool device (tow trolley for machine pull is standard…control trolley unit for hand pull is optional), running gear wheel material (steel is standard…bronze and stainless steel optional), hardware material (zinc plated steel standard…stainless steel optional). Enter options desired at right. If blank, standard is assumed. See page 27 for these and other options.

ACCESSORIES: Make your system more functional with custom accessories (Pages 28 & 29). Some accessories such as cable clamps and tow chains will be computer recommended based on application. Where appropriate, all will be automatically sized to fit your system. Enter accessories desired on form at right.

Example Trolleys & Models

Gleason also manufactures I-Beam Festoon systems in a complete range of sizes and capacities. While there is some capability overlap with track systems, I-Beam festoons tend to support heavier loads for longer distances at higher speeds. For more information on Gleason I-Beam Festoons, ask for Catalog "FB".
Inquiry Fax Form
Industrial Festoon Systems

Fax to: ____________________________________________ Date: __________

FOR FACTORY USE ONLY

Representative ______________________________________
Address ____________________________________________
Date _______________________________________________

Customer __________________________________________

City _______________________________________________
State Zip ___________________________________________
Phone Fax __________________________________________

Total Quantity of Systems (this specification): __________

Application: _________________________________________

What is special?: ________________________________

OUR COMPUTER WILL GENERATE THE DATA IN THE SHADED PORTIONS OF THIS FORM

CABLE PACKAGE

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Each</th>
<th>Round / Flat</th>
<th>Jacket Type</th>
<th>AWG</th>
<th>Number Cond.</th>
<th>Fluid Density</th>
<th>Hose I.D.</th>
<th>Work Press.</th>
<th>O.D. or Thickness*</th>
<th>Width (Flat)*</th>
<th>Weight lb/ft*</th>
<th>Min. Radius*</th>
<th>Price /Foot</th>
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</tr>
</tbody>
</table>

* This data will be automatically entered by computer based on charts in back of catalog. Non-standard dimensions, weights or minimum bend radii must be entered by customer based on information obtained from cable/hose manufacturer.

SYSTEM PARAMETERS

1) Active Travel (AT) ______ ft. ______ in.
2) Loop Depth (LD) ______ ft. ______ in.
3) Maximum Speed ______ ft / min
4) Acceleration ______ ft / s²
5) Desired Model ______

This will be calculated by computer if left blank.

Storage Distance (SD) ______ ft. ______ in.

System Length (SL) ______ ft. ______ in.

System Length = Rail Length. Describe any known obstructions that could interfere with Rail Length.

OPTIONS  ✓ desired

1) Tow Device  2) Hardware Mat’l  3) Wheel Mat’l
   4) Ty-Wraps  5) Tow Chains
   6) Wheel Mat’l

ACCESSORIES ✓ desired

1) Cable Clamps
2) Ty-Wraps
3) Tow Chains
4) Cable Glands
5) Junction Boxes
6) Pre-Assembly
7) Quote Cables

Extra Cable at:
Moving End ______ ft.
Fixed End ______ ft.
Option Design Features

- STAINLESS STEEL HARDWARE
- OTHER FINISHES AVAILABLE — PLEASE CONTACT US
- FACTORY PRE-ASSEMBLY ON SHIPPING FRAME

Track Hardware
- RAIL TRACK SECTIONS
- RAIL COUPLER ASSEMBLIES
- VINYL END CAPS
- RAIL HANGER ASSEMBLIES
- RAIL ENDSTOP ASSEMBLIES

Accessories
- HOSE - GENERAL PURPOSE
- JUNCTION BOXES
- CABLE - ROUND OR FLAT
- TERMINAL BLOCKS
- TY-WRAPS
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS

---

Model Number Explained
For STANDARD DESIGN, specific model numbers are on the following page.

Standard Trolley Design
- 0.87” Dia. precision ball bearing wheels
- Bearings are pre-lubricated for life
- Tow trolley included as standard
- Hardware is zinc plated
- Orange baked polyester powder finish
- Cable/hose clips are adjustable †

---

Tow Trolley Standard...One Required

Control Unit Trolley Optional...Replaces Tow Trolley

---

Option Design Features

- STAINLESS STEEL HARDWARE
- OTHER FINISHES AVAILABLE — PLEASE CONTACT US
- FACTORY PRE-ASSEMBLY ON SHIPPING FRAME

Track Hardware
- RAIL TRACK SECTIONS
- RAIL COUPLER ASSEMBLIES
- VINYL END CAPS
- RAIL HANGER ASSEMBLIES
- RAIL ENDSTOP ASSEMBLIES

Accessories
- HOSE - GENERAL PURPOSE
- JUNCTION BOXES
- CABLE - ROUND OR FLAT
- TERMINAL BLOCKS
- TY-WRAPS
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS

---

Model Number Explained
For STANDARD DESIGN, specific model numbers are on the following page.
**Option Design Features**

- **CODE**: 
  - **S**: STAINLESS STEEL HARDWARE
  - **Z**: ZINC PLATED HARDWARE
- **OPTION**: 
  - □ OTHER FINISHES AVAILABLE – PLEASE CONTACT US
  - □ FACTORY PRE-ASSEMBLY ON SHIPPING FRAME
- **S STANDARD STEEL WHEELS**

**Track Hardware**
- See detail pages at back of catalog
  - RAIL TRACK SECTIONS
  - RAIL COUPLER ASSEMBLIES
  - VINYL END CAPS
  - RAIL HANGER ASSEMBLIES
  - RAIL ENDSTOP ASSEMBLIES

**Accessories**
- See detail pages at back of catalog
  - HOSE - FLAT DESIGN
  - JUNCTION BOXES
  - CABLE - ROUND OR FLAT
  - TERMINAL BLOCKS
  - TY-WRAPS
  - HOSE - GENERAL PURPOSE or HYDRAULIC
  - CABLE GLANDS FOR SINGLE CABLES or GROUPS

**Model Number Explained**

For STANDARD DESIGN, specific model numbers are on the following pages.

---

**For ROUND Cable or Hose**

- **GALVANIZED C-RAIL**
- **STAINLESS STEEL TRACK AVAILABLE**
- **FLAT CABLE CLAMP**
- **STEEL WHEELS**

**Standard Trolley Design**
- 0.87" Dia. precision ball bearing wheels
- Bearings are pre-lubricated for life
- Tow trolley included as standard
- Hardware is zinc plated
- Orange baked polyester powder finish
- Cable Clamp allows cable package height to vary up to 0.12"

**Option Design Features**

- **CODE**: 
  - **S**: STAINLESS STEEL HARDWARE
  - **Z**: ZINC PLATED HARDWARE
- **OPTION**: 
  - □ OTHER FINISHES AVAILABLE – PLEASE CONTACT US
  - □ FACTORY PRE-ASSEMBLY ON SHIPPING FRAME
- **S STANDARD STEEL WHEELS**

**Track Hardware**
- See detail pages at back of catalog
  - RAIL TRACK SECTIONS
  - RAIL COUPLER ASSEMBLIES
  - VINYL END CAPS
  - RAIL HANGER ASSEMBLIES
  - RAIL ENDSTOP ASSEMBLIES

**Accessories**
- See detail pages at back of catalog
  - HOSE - FLAT DESIGN
  - JUNCTION BOXES
  - CABLE - ROUND OR FLAT
  - TERMINAL BLOCKS
  - TY-WRAPS
  - HOSE - GENERAL PURPOSE or HYDRAULIC
  - CABLE GLANDS FOR SINGLE CABLES or GROUPS

---

**For FLAT Cable**

- **GALVANIZED C-RAIL**
- **STAINLESS STEEL TRACK AVAILABLE**
- **FLAT CABLE CLAMP**
- **STEEL WHEELS**

**Standard Trolley Design**
- 1.57" Dia. precision ball bearing wheels
- Bearings are pre-lubricated for life
- Tow trolley included as standard
- Hardware is zinc plated
- Orange baked polyester powder finish
- Includes heavy duty bumpers
- Cable Clamp allows cable package height to vary up to 0.12"

**Option Design Features**

- **CODE**: 
  - **S**: STAINLESS STEEL HARDWARE
  - **Z**: ZINC PLATED HARDWARE
- **OPTION**: 
  - □ OTHER FINISHES AVAILABLE – PLEASE CONTACT US
  - □ FACTORY PRE-ASSEMBLY ON SHIPPING FRAME
- **S STANDARD STEEL WHEELS**

**Track Hardware**
- See detail pages at back of catalog
  - RAIL TRACK SECTIONS
  - RAIL COUPLER ASSEMBLIES
  - VINYL END CAPS
  - RAIL HANGER ASSEMBLIES
  - RAIL ENDSTOP ASSEMBLIES

**Accessories**
- See detail pages at back of catalog
  - HOSE - FLAT DESIGN
  - JUNCTION BOXES
  - CABLE - ROUND OR FLAT
  - TERMINAL BLOCKS
  - TY-WRAPS
  - HOSE - GENERAL PURPOSE or HYDRAULIC
  - TOW CHAINS
  - CABLE GLANDS FOR SINGLE CABLES or GROUPS

---
### End Clamp

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Saddle Dia.</th>
<th>Window Height</th>
<th>Overall Length</th>
<th>Top of Track</th>
<th>Saddle Locator</th>
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<tbody>
<tr>
<td>C50-M06-0601R-Z</td>
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### Intermediate Trolley

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### Tow Trolley

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### Control Unit Trolley

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</table>

Note: Rail Mounted Junction Boxes are available. See "Accessories" section at back of catalog.
Gleason TrackMaster™ Series C50-C

For ROUND Cable or Hose

- MAX CABLE/HOSE O.D. = 2.38”
- MAX TROLLEY LOAD = 80 lbs.
- TRAVEL SPEEDS UP TO 350 fpm
- ACCELERATION—Consult us if over 2.0 ft/sec²
- MAX TRAVEL = 250 ft.—Consult us if greater

Standard Trolley Design

- 1.25” Dia. precision ball bearing wheels
- Bearings are pre-lubricated for life
- Tow trolley included as standard
- Hardware is zinc plated
- Orange baked polyester powder finish
- Includes heavy duty bumpers
- Cable/hose clips are adjustable

Model Number Explained

For STANDARD DESIGN, specific model numbers are on the following page.

Option Design Features

<table>
<thead>
<tr>
<th>CODE</th>
<th>OPTION</th>
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<tbody>
<tr>
<td>B</td>
<td>BRONZE ANTI-SPARK WHEELS w/ BRONZE BEARINGS (De-rate maximum trolley load by 50% for bronze wheels)</td>
</tr>
<tr>
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<td>STAINLESS STEEL HARDWARE</td>
</tr>
<tr>
<td></td>
<td>OTHER FINISHES AVAILABLE — PLEASE CONTACT US</td>
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<tr>
<td></td>
<td>FACTORY PRE-ASSEMBLY ON SHIPPING FRAME</td>
</tr>
</tbody>
</table>

Track Hardware

See detail pages at back of catalog

- RAIL TRACK SECTIONS
- RAIL COUPLER ASSEMBLIES
- VINYL END CAPS
- RAIL HANGER ASSEMBLIES
- RAIL ENDSTOP ASSEMBLIES

Accessories

See detail pages at back of catalog

- TOW CHAINS
- HOSE — GENERAL PURPOSE or HYDRAULIC
- JUNCTION BOX(ES)
- CABLE — ROUND OR FLAT
- TERMINAL BLOCKS
- TY-WRAPS
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS

Gleason TrackMaster™ Series C50-M

For MIXED ROUND or FLAT Cable

- MAX SADDLE DIAMETER = 6.31”
- MAX TROLLEY LOAD = 80 lbs.
- TRAVEL SPEEDS UP TO 350 fpm
- ACCELERATION—Consult us if over 2.0 ft/sec²
- MAX TRAVEL = 250 ft.—Consult us if greater

Standard Trolley Design

- 1.25” Dia. precision ball bearing wheels
- Bearings are pre-lubricated for life
- Tow trolley included as standard
- Hardware is zinc plated
- Orange baked polyester powder finish
- Includes heavy duty bumpers
- Cable Clamp allows cable package height to vary up to 0.25”

Model Number Explained

For STANDARD DESIGN, specific model numbers are on the following page.

Option Design Features

<table>
<thead>
<tr>
<th>CODE</th>
<th>OPTION</th>
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<tr>
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<td></td>
<td>OTHER FINISHES AVAILABLE — PLEASE CONTACT US</td>
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<td>FACTORY PRE-ASSEMBLY ON SHIPPING FRAME</td>
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Track Hardware

See detail pages at back of catalog

- RAIL TRACK SECTIONS
- RAIL COUPLER ASSEMBLIES
- VINYL END CAPS
- RAIL HANGER ASSEMBLIES
- RAIL ENDSTOP ASSEMBLIES

Accessories

See detail pages at back of catalog

- TOW CHAINS
- HOSE — GENERAL PURPOSE or HYDRAULIC
- JUNCTION BOX(ES)
- CABLE — ROUND OR FLAT
- TERMINAL BLOCKS
- TY-WRAPS
- CABLE CLAMPS-MIXED DESIGN
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS
Series C 50-F Components & Dimensions, con't.

Flat Clamp Design for Flat Cable

Components & Dimensions, con't.

Model Number
C50-F06-2206T-Z
C50-F06-2205T-Z
C50-F06-1706T-Z
C50-F06-1702T-Z
C50-F04-2305T-Z
C50-F04-1305T-Z
C50-F04-1302T-Z
C50-F04-1301T-Z
C50-F04-1300T-Z
C50-F04-0602T-Z
C50-F04-0601T-Z
C50-F03-1505T-Z
C50-F03-1501T-Z
C50-F03-0805T-Z
C50-F03-0802T-Z

Number Radius Dia. Height Width Length Width Track Locator Height Locator
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00
1.575 33.50 1.00

Series C 50-c Components & Dimensions

Single, Double or Triple Tier Design for Round Cable or Hose

Control Unit Trolley

Optional… Replaces Tow Trolley

Tow Trolley

Standard… One Required

End Clip

One Required

Intermediate Trolley

Quantity as Required

Note: Rail Mounted Junction Boxes are available. See “Accessories” section at back of catalog.
For FLAT Cable

- FLAT CLAMP DESIGN
- 1.25" DIA. PRECISION BALL BEARING
- STEEL WHEELS STANDARD

Standard Trolley Design

- 1.25" Dia. precision ball bearing wheels
- Bearings are pre-lubricated for life
- Tow trolley included as standard
- Orange baked polyester powder finish
- Includes heavy duty bumpers
- Cable Clamp allows cable package height to vary up to 0.12"

For FLAT Cable

- 1.25" Dia. precision ball bearing wheels
- FLAT CLAMP DESIGN

Model Number Explained

For STANDARD DESIGN, specific model numbers are on the following pages.

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Description</th>
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<tbody>
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Intermediate Trolley

- Quantity as Required

<table>
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<tr>
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</table>
**For FLAT Cable**

- **FLAT CLAMP DESIGN**
- **1.25” DIA. PRECISION BALL BEARING**
- **STEEL WHEELS STANDARD**

**Standard Trolley Design**

- **1.25” Dia. precision ball bearing wheels**
- **Bearings are pre-lubricated for life**
- **Tow trolley included as standard**
- **Hardware is zinc plated**
- **Orange baked polyester powder finish**
- **Includes heavy duty bumpers**
- **Cable Clamp allows cable package height to vary up to 0.12”**

**Model Number Explained**

For STANDARD DESIGN, specific model numbers are on the following pages.

---

**Option Design Features**

**CODE** | **OPTION**
---|---
B | BRONZE ANTI-SPARK WHEELS w/ BRONZE BEARINGS (De-rate maximum trolley load by 50% for bronze wheels)
S | STAINLESS STEEL HARDWARE
O | OTHER FINISHES AVAILABLE – PLEASE CONTACT US
F | FACTORY PRE-ASSEMBLY ON SHIPPING FRAME

**Track Hardware** See detail pages at back of catalog

- **RAIL TRACK SECTIONS**
- **RAIL COUPLER ASSEMBLIES**
- **VINYL END CAPS**
- **RAIL HANGER ASSEMBLIES**
- **RAIL ENDSTOP ASSEMBLIES**

**Accessories** See detail pages at back of catalog

- **TOW CHAINS**
- **HOSE - GENERAL PURPOSE or HYDRAULIC**
- **JUNCTION BOX(ES)**
- **CABLE - ROUND OR FLAT**
- **TERMINAL BLOCKS**
- **TY-WRAPS**
- **CABLE CLAMPS-FLAT DESIGN**
- **CABLE GLANDS FOR SINGLE CABLES OR GROUPS**

---

**Series C 50-F Components & Dimensions**

**End Clamp**

One Required

---

**Intermediate Trolley**

Quantity as Required
### Series C50-F Components & Dimensions, con't.

#### Tow Trolley

<table>
<thead>
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<th>Series</th>
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<th>Dia. Range (Inches)</th>
<th>Height (Inches)</th>
<th>Width (Inches)</th>
<th>Length (Inches)</th>
<th>Yoke Width (Inches)</th>
<th>Yoke Height (Inches)</th>
<th>Yoke Length (Inches)</th>
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### Series C50-c Components & Dimensions

#### Single, Double or Triple Tier Design for Round Cable or Hose

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<th>Number Tiers</th>
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<th>Length (Inches)</th>
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<th>Length (Inches)</th>
<th>Diameter (Inches)</th>
<th>Number Carets</th>
<th>Length (Inches)</th>
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</table>
**Option Design Features**

**CODE**  | **OPTION**  
--- | ---  
B | BRONZE ANTI-SPARK WHEELS w/ BRONZE BEARINGS  
| (De-rate maximum trolley load by 50% for bronze wheels)  
S | STAINLESS STEEL HARDWARE  
 | FACTORY PRE-ASSEMBLY ON SHIPPING FRAME

**Accessories**  
- TOW CHAINS  
- HOSE - GENERAL PURPOSE or HYDRAULIC  
- JUNCTION BOX(ES)  
- CABLE - ROUND OR FLAT  
- TERMINAL BLOCKS  
- TY-WRAPS  
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS  

**Track Hardware**  
- RAIL TRACK SECTIONS  
- RAIL COUPLER ASSEMBLIES  
- VINYL END CAPS  
- RAIL HANGER ASSEMBLIES  
- RAIL ENDSTOP ASSEMBLIES  

---

**Option Design Features**

**CODE**  | **OPTION**  
--- | ---  
B | BRONZE ANTI-SPARK WHEELS w/ BRONZE BEARINGS  
| (De-rate maximum trolley load by 50% for bronze wheels)  
S | STAINLESS STEEL HARDWARE  
 | FACTORY PRE-ASSEMBLY ON SHIPPING FRAME

**Accessories**  
- TOW CHAINS  
- HOSE - GENERAL PURPOSE or HYDRAULIC  
- JUNCTION BOX(ES)  
- CABLE - ROUND OR FLAT  
- TERMINAL BLOCKS  
- TY-WRAPS  
- CABLE CLAMPS-MIXED DESIGN  
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS  

**Track Hardware**  
- RAIL TRACK SECTIONS  
- RAIL COUPLER ASSEMBLIES  
- VINYL END CAPS  
- RAIL HANGER ASSEMBLIES  
- RAIL ENDSTOP ASSEMBLIES  

---

**Option Design Features**

**CODE**  | **OPTION**  
--- | ---  
B | BRONZE ANTI-SPARK WHEELS w/ BRONZE BEARINGS  
| (De-rate maximum trolley load by 50% for bronze wheels)  
S | STAINLESS STEEL HARDWARE  
 | FACTORY PRE-ASSEMBLY ON SHIPPING FRAME

**Accessories**  
- TOW CHAINS  
- HOSE - GENERAL PURPOSE or HYDRAULIC  
- JUNCTION BOX(ES)  
- CABLE - ROUND OR FLAT  
- TERMINAL BLOCKS  
- TY-WRAPS  
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS  

**Track Hardware**  
- RAIL TRACK SECTIONS  
- RAIL COUPLER ASSEMBLIES  
- VINYL END CAPS  
- RAIL HANGER ASSEMBLIES  
- RAIL ENDSTOP ASSEMBLIES  

---

**Option Design Features**

**CODE**  | **OPTION**  
--- | ---  
B | BRONZE ANTI-SPARK WHEELS w/ BRONZE BEARINGS  
| (De-rate maximum trolley load by 50% for bronze wheels)  
S | STAINLESS STEEL HARDWARE  
 | FACTORY PRE-ASSEMBLY ON SHIPPING FRAME

**Accessories**  
- TOW CHAINS  
- HOSE - GENERAL PURPOSE or HYDRAULIC  
- JUNCTION BOX(ES)  
- CABLE - ROUND OR FLAT  
- TERMINAL BLOCKS  
- TY-WRAPS  
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS  

**Track Hardware**  
- RAIL TRACK SECTIONS  
- RAIL COUPLER ASSEMBLIES  
- VINYL END CAPS  
- RAIL HANGER ASSEMBLIES  
- RAIL ENDSTOP ASSEMBLIES  

---

**Option Design Features**

**CODE**  | **OPTION**  
--- | ---  
B | BRONZE ANTI-SPARK WHEELS w/ BRONZE BEARINGS  
| (De-rate maximum trolley load by 50% for bronze wheels)  
S | STAINLESS STEEL HARDWARE  
 | FACTORY PRE-ASSEMBLY ON SHIPPING FRAME

**Accessories**  
- TOW CHAINS  
- HOSE - GENERAL PURPOSE or HYDRAULIC  
- JUNCTION BOX(ES)  
- CABLE - ROUND OR FLAT  
- TERMINAL BLOCKS  
- TY-WRAPS  
- CABLE GLANDS FOR SINGLE CABLES OR GROUPS  

**Track Hardware**  
- RAIL TRACK SECTIONS  
- RAIL COUPLER ASSEMBLIES  
- VINYL END CAPS  
- RAIL HANGER ASSEMBLIES  
- RAIL ENDSTOP ASSEMBLIES  

---
### Series C 50-M Components & Dimensions

**End Clamp**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Saddle Dia.</th>
<th>Window Height</th>
<th>Window Width</th>
<th>Overall Length</th>
<th>Top of Track</th>
<th>Saddle Track Locater</th>
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<tbody>
<tr>
<td>C50-M06-0601E-Z</td>
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**Intermediate Trolley**

<table>
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<th>Overall Length</th>
<th>Top of Track</th>
<th>Saddle Track Locater</th>
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<tr>
<td>C50-M06-0601I-Z-S</td>
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<td>3.44</td>
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**Tow Trolley**

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<th>Window Width</th>
<th>Overall Length</th>
<th>Top of Track</th>
<th>Saddle Track Locater</th>
</tr>
</thead>
<tbody>
<tr>
<td>C50-M06-0601T-Z-S</td>
<td>3.15</td>
<td>6.31</td>
<td>0.62</td>
<td>1.88</td>
<td>7.88</td>
<td>3.44</td>
</tr>
<tr>
<td>C50-M06-0602T-Z-S</td>
<td>3.15</td>
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<td>3.44</td>
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<td>3.15</td>
<td>6.31</td>
<td>0.62</td>
<td>5.00</td>
<td>7.88</td>
<td>3.44</td>
</tr>
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<td>0.62</td>
<td>6.56</td>
<td>7.88</td>
<td>3.44</td>
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</tbody>
</table>

### Series C 40-F Components & Dimensions

**End Clamp**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Saddle Dia.</th>
<th>Window Height</th>
<th>Window Width</th>
<th>Overall Length</th>
<th>Top of Track</th>
<th>Saddle Track Locater</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40-F02-0502E-Z</td>
<td>1.00</td>
<td>2.00</td>
<td>1.50</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
</tr>
<tr>
<td>C40-F02-1502E-Z</td>
<td>1.00</td>
<td>2.00</td>
<td>1.50</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
</tr>
<tr>
<td>C40-F03-0902E-Z</td>
<td>1.56</td>
<td>3.12</td>
<td>0.94</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
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</table>

**Intermediate Trolley**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Saddle Dia.</th>
<th>Window Height</th>
<th>Window Width</th>
<th>Overall Length</th>
<th>Top of Track</th>
<th>Saddle Track Locater</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40-F02-0502I-Z-S</td>
<td>1.00</td>
<td>2.00</td>
<td>1.50</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
</tr>
<tr>
<td>C40-F02-1502I-Z-S</td>
<td>1.00</td>
<td>2.00</td>
<td>1.50</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
</tr>
<tr>
<td>C40-F03-0902I-Z-S</td>
<td>1.56</td>
<td>3.12</td>
<td>0.94</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
</tr>
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</table>

**Tow Trolley**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Saddle Dia.</th>
<th>Window Height</th>
<th>Window Width</th>
<th>Overall Length</th>
<th>Top of Track</th>
<th>Saddle Track Locater</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40-F02-0502T-Z-S</td>
<td>1.00</td>
<td>2.00</td>
<td>1.50</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
</tr>
<tr>
<td>C40-F02-1502T-Z-S</td>
<td>1.00</td>
<td>2.00</td>
<td>1.50</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
</tr>
<tr>
<td>C40-F03-0902T-Z-S</td>
<td>1.56</td>
<td>3.12</td>
<td>0.94</td>
<td>2.12</td>
<td>3.25</td>
<td>3.94</td>
</tr>
</tbody>
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**Control Unit Trolley**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Saddle Dia.</th>
<th>Window Height</th>
<th>Window Width</th>
<th>Overall Length</th>
<th>Overall Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40-F02-0502U-Z-S</td>
<td>1.00</td>
<td>2.00</td>
<td>1.50</td>
<td>2.12</td>
<td>3.25</td>
</tr>
<tr>
<td>C40-F02-1502U-Z-S</td>
<td>1.00</td>
<td>2.00</td>
<td>1.50</td>
<td>2.12</td>
<td>3.25</td>
</tr>
<tr>
<td>C40-F03-0902U-Z-S</td>
<td>1.56</td>
<td>3.12</td>
<td>0.94</td>
<td>2.12</td>
<td>3.25</td>
</tr>
</tbody>
</table>

Note: Rail Mounted Junction Boxes are available. See “Accessories” section at back of catalog.
**T-Track•Master™ Series C40-F**

For ROUND Cable or Hose

- **Flat Clamp Design**
- **0.87” Dia. Precision Ball Bearing Steel Wheels Standard**

**Standard Trolley Design**

- **0.87” Dia. precision ball bearing wheels**
- **Bearings are pre-lubricated for life**
- **Tow trolley included as standard**
- **Hardware is zinc plated**
- **Orange baked polyester powder finish**
- **Cable Clamp allows cable package height to vary up to 0.12”**

**Model Number Explained**

For STANDARD DESIGN, specific model numbers are on the following page.

**Option Design Features**

- **STAINLESS STEEL HARDWARE**
- **OTHER FINISHES AVAILABLE – PLEASE CONTACT US**
- **FACTORY PRE-ASSEMBLY ON SHIPPING FRAME**

**Track Hardware**

- **Rail Track Sections**
- **Rail Coupler Assemblies**
- **Vinyl End Caps**
- **Rail Hanger Assemblies**
- **Rail Endstop Assemblies**

**Accessories**

- **Hose - Flat Design**
- **Junction Box(es)**
- **Terminal Blocks**
- **TY-Wraps**
- **Hose - General Purpose or Hydraulic**

**GALVANIZED C-RAIL**

**STAINLESS STEEL TRACK AVAILABLE**

**FLAT CABLE CLAMP**

**STEEL WHEELS**

**S**

**STANDARD STEEL WHEELS**

**GALVANIZED C-RAIL**

**STAINLESS STEEL TRACK AVAILABLE**

**FLAT CABLE CLAMP**

**STEEL WHEELS**

**S**

**STANDARD STEEL WHEELS**

**GALVANIZED C-RAIL**

**STAINLESS STEEL TRACK AVAILABLE**

**FLAT CABLE CLAMP**

**STEEL WHEELS**

**S**

**STANDARD STEEL WHEELS**

**MAX SADDLE DIAMETER = 3.12”**

**MAX TROLLEY LOAD = 50 lbs.**

**Travel Speeds Up To 350 fpm.**

**ACCELERATION – Consult us if over 2.0 ft/sec²**

**MAX TRAVEL = 100 ft. – Consult us if greater**

**MAX SADDLE DIAMETER = 4.34”**

**MAX TROLLEY LOAD = 125 lbs.**

**Travel Speeds Up To 450 fpm.**

**ACCELERATION – Consult us if over 2.0 ft/sec²**

**MAX TRAVEL = 500 ft. – Consult us if greater**

**.Option Design Features**

- **STAINLESS STEEL HARDWARE**
- **OTHER FINISHES AVAILABLE – PLEASE CONTACT US**
- **FACTORY PRE-ASSEMBLY ON SHIPPING FRAME**

**Track Hardware**

- **Rail Track Sections**
- **Rail Coupler Assemblies**
- **Vinyl End Caps**
- **Rail Hanger Assemblies**
- **Rail Endstop Assemblies**

**Accessories**

- **Cable Clamps - Flat Design**
- **Junction Box(es)**
- **Cable - Round or Flat**
- **Terminal Blocks**
- **TY-Wraps**
- **Hose - General Purpose or Hydraulic**
- **Tow Chains**
- **Cable Glands for Single Cables or Groups**

**Model Number Explained**

For STANDARD DESIGN, specific model numbers are on the following pages.

**Option Design Features**

- **STAINLESS STEEL HARDWARE**
- **OTHER FINISHES AVAILABLE – PLEASE CONTACT US**
- **FACTORY PRE-ASSEMBLY ON SHIPPING FRAME**

**Track Hardware**

- **Rail Track Sections**
- **Rail Coupler Assemblies**
- **Vinyl End Caps**
- **Rail Hanger Assemblies**
- **Rail Endstop Assemblies**

**Accessories**

- **Cable Clamps - Flat Design**
- **Junction Box(es)**
- **Cable - Round or Flat**
- **Terminal Blocks**
- **TY-Wraps**
- **Hose - General Purpose or Hydraulic**
- **Tow Chains**
- **Cable Glands for Single Cables or Groups**

**Model Number Explained**

For STANDARD DESIGN, specific model numbers are on the following page.
**FLAT CLAMP DESIGN FOR FLAT CABLE**

**Series C 60-F Components & Dimensions**

All dimensions in inches unless otherwise specified.

### End Clamp

<table>
<thead>
<tr>
<th>Model Number</th>
<th>C60-F03-1102E-Z</th>
<th>C60-F03-2005E-Z</th>
<th>C60-F03-2002E-Z</th>
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<tr>
<td>O.D. Range</td>
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<td>1.56</td>
<td>1.56</td>
</tr>
<tr>
<td>Centers</td>
<td>2.35</td>
<td>3.75</td>
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</tr>
<tr>
<td>Length</td>
<td>5.57</td>
<td>6.75</td>
<td>6.00</td>
</tr>
<tr>
<td>Width</td>
<td>2.00</td>
<td>2.00</td>
<td>1.94</td>
</tr>
<tr>
<td>Number Tiers</td>
<td>1</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Cable/Hose</td>
<td>0.31-0.59</td>
<td>0.60-0.94</td>
<td>0.60-0.94</td>
</tr>
<tr>
<td>Cable Clip</td>
<td>1.25</td>
<td>3.86</td>
<td>3.86</td>
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<tr>
<td>Trolley</td>
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<td>5.50</td>
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**Intermediate Trolley**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>C60-C33I-Z-S</th>
<th>C60-C32I-Z-S</th>
<th>C60-C31I-Z-S</th>
</tr>
</thead>
<tbody>
<tr>
<td>O.D. Range</td>
<td>0.95-1.25</td>
<td>0.60-0.94</td>
<td>0.31-0.59</td>
</tr>
<tr>
<td>Centers</td>
<td>3.99</td>
<td>3.86</td>
<td>3.12</td>
</tr>
<tr>
<td>Length</td>
<td>5.59</td>
<td>5.50</td>
<td>5.50</td>
</tr>
<tr>
<td>Width</td>
<td>3.12</td>
<td>3.86</td>
<td>5.50</td>
</tr>
<tr>
<td>Number Tiers</td>
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</table>

**Control Unit Trolley**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>C64-C31E-Z-S</th>
<th>C64-C32E-Z-S</th>
<th>C64-C33E-Z-S</th>
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<tbody>
<tr>
<td>O.D. Range</td>
<td>0.95-1.25</td>
<td>0.60-0.94</td>
<td>0.31-0.59</td>
</tr>
<tr>
<td>Centers</td>
<td>3.99</td>
<td>3.86</td>
<td>3.12</td>
</tr>
<tr>
<td>Length</td>
<td>5.59</td>
<td>5.50</td>
<td>5.50</td>
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<tr>
<td>Width</td>
<td>3.12</td>
<td>3.86</td>
<td>5.50</td>
</tr>
<tr>
<td>Number Tiers</td>
<td>3</td>
<td>2</td>
<td>1</td>
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</tbody>
</table>

**Series C 40-c Components & Dimensions**

SINGLE, DOUBLE OR TRIPLE TIER DESIGN for ROUND CABLE OR HOSE

All dimensions in inches unless otherwise specified.

### Intermediate Trolley

<table>
<thead>
<tr>
<th>Model Number</th>
<th>C40-C33T-Z-S</th>
<th>C40-C32T-Z-S</th>
<th>C40-C31T-Z-S</th>
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</thead>
<tbody>
<tr>
<td>O.D. Range</td>
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<td>0.60-0.94</td>
<td>0.31-0.59</td>
</tr>
<tr>
<td>Centers</td>
<td>3.99</td>
<td>3.86</td>
<td>3.12</td>
</tr>
<tr>
<td>Length</td>
<td>5.59</td>
<td>5.50</td>
<td>5.50</td>
</tr>
<tr>
<td>Width</td>
<td>3.12</td>
<td>3.86</td>
<td>5.50</td>
</tr>
<tr>
<td>Number Tiers</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

### Tow Trolley

<table>
<thead>
<tr>
<th>Model Number</th>
<th>C40-C11U-Z-S</th>
<th>C40-C12U-Z-S</th>
<th>C40-C13U-Z-S</th>
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</thead>
<tbody>
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<td>0.60-0.94</td>
<td>0.31-0.59</td>
</tr>
<tr>
<td>Centers</td>
<td>1.25</td>
<td>3.86</td>
<td>3.12</td>
</tr>
<tr>
<td>Length</td>
<td>5.59</td>
<td>3.86</td>
<td>5.50</td>
</tr>
<tr>
<td>Width</td>
<td>3.12</td>
<td>2.75</td>
<td>3.86</td>
</tr>
<tr>
<td>Number Tiers</td>
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<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

### Control Unit Trolley

Optional…Replaces Tow Trolley

<table>
<thead>
<tr>
<th>Model Number</th>
<th>C44-C11E-Z-S</th>
<th>C44-C12E-Z-S</th>
<th>C44-C13E-Z-S</th>
</tr>
</thead>
<tbody>
<tr>
<td>O.D. Range</td>
<td>0.95-1.25</td>
<td>0.60-0.94</td>
<td>0.31-0.59</td>
</tr>
<tr>
<td>Centers</td>
<td>3.99</td>
<td>3.86</td>
<td>3.12</td>
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<tr>
<td>Length</td>
<td>5.59</td>
<td>3.86</td>
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<tr>
<td>Width</td>
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<td>2.75</td>
<td>3.86</td>
</tr>
<tr>
<td>Number Tiers</td>
<td>3</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: Rail Mounted Junction Boxes are available. See “Accessories” section at back of catalog.

All dimensions in inches unless otherwise specified.
**Option Design Features**

- **STAINLESS STEEL HARDWARE**
- **OTHER FINISHES AVAILABLE – PLEASE CONTACT US**
- **FACTORY PRE-ASSEMBLY ON SHIPPING FRAME**

**Track Hardware**

- **RAIL TRACK SECTIONS**
- **RAIL COUPLER ASSEMBLIES**
- **VINYL END CAPS**
- **RAIL HANGER ASSEMBLIES**
- **RAIL ENDSTOPS ASSEMBLIES**

**Accessories**

- **HOSE - GENERAL PURPOSE**
- **JUNCTION BOXES**
- **CABLE - ROUND OR FLAT**
- **TERMINAL BLOCKS**
- **TY-WRAPS**
- **CABLE GLANDS FOR SINGLE CABLES OR GROUPS**

---

### Standard Trolley Design

- 0.87" Dia. precision ball bearing wheels
- Bearings are pre-lubricated for life
- Tow trolley included as standard
- Hardware is zinc plated
- Orange baked polyester powder finish
- Cable/hose clips are adjustable

### Model Number Explained

For STANDARD DESIGN, specific model numbers are on the following page.

### Options

- **STAINLESS STEEL HARDWARE**
- **OTHER FINISHES AVAILABLE – PLEASE CONTACT US**
- **FACTORY PRE-ASSEMBLY ON SHIPPING FRAME**

### Track Hardware

- **RAIL TRACK SECTIONS**
- **RAIL COUPLER ASSEMBLIES**
- **VINYL END CAPS**
- **RAIL HANGER ASSEMBLIES**
- **RAIL ENDSTOPS ASSEMBLIES**

### Accessories

- **HOSE - GENERAL PURPOSE**
- **JUNCTION BOXES**
- **CABLE - ROUND OR FLAT**
- **TERMINAL BLOCKS**
- **TY-WRAPS**
- **CABLE GLANDS FOR SINGLE CABLES OR GROUPS**
**Inquiry Fax Form**

**Industrial Festoon Systems**

Fax to: ___________________________  Fax Number: ___________________________  Date: __________

<table>
<thead>
<tr>
<th>Representative</th>
<th>Territory No.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Customer Address: ___________________________  City: ___________________________  State: __________  Zip: __________  Phone: ___________________________  Fax: ___________________________.

Total Quantity of Systems (this specification): ___________________________.

Application: ___________________________.

What is special? ___________________________.

<table>
<thead>
<tr>
<th>CABLE PACKAGE</th>
<th>CABLES</th>
<th>HOSES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Qty. Each</td>
<td>Round /Flat Type</td>
<td>AWG</td>
</tr>
<tr>
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<td></td>
<td></td>
</tr>
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<td>2</td>
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</tr>
<tr>
<td>3</td>
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<td>6</td>
<td></td>
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</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* This data will be automatically entered by computer based on charts in back of catalog. Non-standard dimensions, weights or minimum bend radii must be entered by customer based on information obtained from cable/hose manufacturer.

**SYSTEM PARAMETERS**

1) Active Travel (AT) ______ ft. ______ in.  2) Loop Depth (LD) ______ ft. ______ in.  3) Maximum Speed ______ ft / min  4) Acceleration ______ ft /s /s  5) Desired Model ___________________________.  6) Storage Distance (SD) ______ ft. ______ in.  7) System Length (SL) ______ ft. ______ in.  

**ACCESSORIES**

1) Cable Clamps  2) Ty-Wraps  3) Tow Chains  4) Cable Glands  5) Junction Boxes  6) Pre-Assembly  7) Quote Cables

**Desired Options**

- Tow Device  - Tow Trolley  - Control Trolley  - Hardware Mat 1  - Zinc Plated  - Stainless Steel  - Wheel Mat 1  - Steel  - Bronze  - Stainless Stl.

**Model Number Explained**

For STANDARD DESIGN, specific model numbers are on the following pages.

<table>
<thead>
<tr>
<th>Standard Intermediate Trolley</th>
<th>Standard Hardware</th>
<th>Standard Wheels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Style</td>
<td>Diameter</td>
</tr>
<tr>
<td>#60</td>
<td>M</td>
<td>06</td>
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</tbody>
</table>

- Example above is for INTERMEDIATE TROLLEY (I). Use same option changes (at right) for other components as required.

**Option Design Features**

<table>
<thead>
<tr>
<th>CODE</th>
<th>OPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>STAINLESS STEEL HARDWARE</td>
</tr>
<tr>
<td></td>
<td>OTHER FINISHES AVAILABLE – PLEASE CONTACT US</td>
</tr>
<tr>
<td></td>
<td>FACTORY PRE-ASSEMBLY ON SHIPPING FRAME</td>
</tr>
</tbody>
</table>

**Track Hardware**

See detail pages at back of catalog

- RAIL TRACK SECTIONS  - RAIL COUPLER ASSEMBLIES  - VINYL END CAPS  - RAIL HANGER ASSEMBLIES  - RAIL ENDSTOP ASSEMBLIES

**Accessories**

See detail pages at back of catalog

- CABLE CLAMPS - FLAT DESIGN  - JUNCTION BOXES  - CABLE - ROUND OR FLAT  - TERMINAL BLOCKS  - TY-WRAPS  - HOSE - GENERAL PURPOSE or HYDRAULIC  - TOW CHAINS  - CABLE GLANDS FOR SINGLE CABLES OR GROUPS
Input Required when Ordering

The following information is required so the Gleason computer software can recommend and quote the ideal festoon system for your application. Enter the data on the form at right and fax to your local Gleason Representative or directly to the Gleason factory at 920-387-4189.

CABLE/HOSE PACKAGE: Properly sizing a festoon system for the cable/hose it will carry is the only way to assure satisfactory operation and long life. Please fill in all known information about each size and type of cable or hose to be carried by your system. The information for the grey areas will be computer generated based on your input and published industry averages. Compare the cable/hose you will be using with the “Cable & Hose Data” in the back of this catalog. If the cable or hose you will be using is unusual in any way, enter the proper data as provided by the cable/hose manufacturer in the appropriate blanks within the grey area. This is especially important for minimum bend radius and weight. Refer to “Cable & Saddle Guidelines” (Page 7) for bending and stacking information.

OPTIONS:

How far must your system travel? At what speed? With how much acceleration? This is all data that must be known to properly apply a festoon system. See “Typical C-Rail System” (Page 6) for definitions and explanations of required information. Enter data on form at right.

SYSTEM PARAMETERS: How far must your system travel? At what speed? With how much acceleration? This is all data that must be known to properly apply a festoon system. See “Typical C-Rail System” (Page 6) for definitions and explanations of required information. Enter data on form at right.

OPTIONS: Included are such items as type of tool device (tow trolley for machine pull is standard...control trolley unit for hand pull is optional), running gear wheel material (steel is standard...bronze and stainless steel optional), hardware material (zinc plated steel standard...stainless steel optional). Enter options desired at right. If blank, standard is assumed. See page 27 for these and other options.

ACCESSORIES: Make your system more functional with custom accessories (Pages 28 & 29). Some accessories such as cable clamps and low rails will be computer recommended based on application. Where appropriate, all will be automatically sized to fit your system. Enter accessories desired on form at right.

Gleason also manufacturers I-Beam Festoon systems in a complete range of sizes and capacities. While there is some capability overlap with track systems, I-Beam festoons tend to support heavier loads for longer distances at higher speeds. For more information on Gleason I-Beam Festoons, ask for Catalog “FB”.

### CABLES

<table>
<thead>
<tr>
<th>Qty. Each</th>
<th>Round</th>
<th>Flat</th>
<th>Jacket Type</th>
<th>AWG Number</th>
<th>Cond.</th>
<th>Density</th>
<th>O.D.</th>
<th>Work Press.</th>
<th>Width (Flat)</th>
<th>Weight lb/ft</th>
<th>Min. Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>FLAT</td>
<td>NED</td>
<td>PVC</td>
<td>16</td>
<td>4</td>
<td>0.225*</td>
<td>0.225*</td>
<td>0.675*</td>
<td>1.34*</td>
<td>1.15*</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>ROUND</td>
<td>PVC</td>
<td>16</td>
<td>4</td>
<td>0.225*</td>
<td>0.225*</td>
<td>0.675*</td>
<td>1.34*</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ROUND</td>
<td>NED</td>
<td>1.75</td>
<td>2000</td>
<td>1.32*</td>
<td>1.15*</td>
<td>0.695*</td>
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### HOSES

<table>
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<th>Round</th>
<th>Flat</th>
<th>Jacket Type</th>
<th>ID (in.)</th>
<th>Press. Thickness</th>
<th>Nom. Min. Bend</th>
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</thead>
<tbody>
<tr>
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<td>FLAT</td>
<td>NED</td>
<td>PVC</td>
<td>0.75</td>
<td>0.225*</td>
<td>0.675*</td>
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<tr>
<td>2</td>
<td>ROUND</td>
<td>PVC</td>
<td>0.225*</td>
<td>0.125*</td>
<td>0.675*</td>
<td></td>
</tr>
</tbody>
</table>

### Cable & Hose Data

**Non-standard dimensions, weights or minimum bend radius must be entered by customer based on information obtained from cable/hose manufacturer.**

### Mixed Clamp Design

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Saddle Location</th>
<th>Bolt Hole Type</th>
<th>Bolt Hole Location</th>
<th>Weight (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C60-M12-1005S</td>
<td>Left</td>
<td>M-12</td>
<td>0.945</td>
<td>12.59</td>
</tr>
<tr>
<td>C60-M12-1105S</td>
<td>Right</td>
<td>M-12</td>
<td>1.06</td>
<td>12.59</td>
</tr>
</tbody>
</table>

### End Clamp

**One Required**

### Intermediate Trolley

**Quantity as Required**

### Series C 60-M Components & Dimensions

All dimensions in inches unless otherwise specified.
Cable & Saddle Guidelines

1. Bending Cable (All saddles and clips)
   For good service and long life, it is best to follow the rule: "BIG BENDS ARE BEST". Cable producers vary in applying a multiplier. Gleason uses the chart below.

<table>
<thead>
<tr>
<th>CABLE O.D.</th>
<th>MIN. RADIUS</th>
<th>MIN. SADDLE DIA.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under 0.3 in.</td>
<td>&gt; 3 x O.D.</td>
<td>6 x O.D.</td>
</tr>
<tr>
<td>Under 0.5 in.</td>
<td>4 x O.D</td>
<td>8 x O.D.</td>
</tr>
<tr>
<td>Above 0.5 in.</td>
<td>5 x O.D.</td>
<td>10 x O.D.</td>
</tr>
</tbody>
</table>

2. Cable O.D. Variations (Type M saddles)
   Variations in cable size (O.D.) should be kept to a minimum.

3. Balance in Loading Cable (Type M saddles)
   This is important for smooth running, long bearing life and component alignment. Distribute the load evenly, with the heaviest cables nearest the centerline.

4. Flat Cable Stacking (Type F saddles)
   a) Secure Clamping
      EXTREMELY IMPORTANT: At least 50% of the cable surface must be under clamp pressure.
   b) Height Consideration
      Flat cable stacking is best when width is 3 or 4 times height (Fig. 5 & 6, above). High stacking can work as long as equal pressure is applied to all cables (Fig. 8).
   c) Configuration
      BIG CABLE ON TOP (Fig. 9) provides maximum bending radius for largest cables, improves heat dissipation for power cables and transfers pulling force to largest cables when tow chains are not used.

Running Gear
Steel standard. Bronze or stainless steel available.

C-Rail
Galvanized Standard. Stainless steel optional on C40 systems.

Trolley Body
Standard finish is baked on orange polyester powder coating.

Saddle
For flat cable or mixed bundle. Standard finish is baked on orange polyester powder coating.

Clip
For hose or round cable. Standard finish is zinc plating.
Typical C-Rail System

**GENERAL LAYOUT • DEFINITIONS • DESCRIPTIONS • TERMS • SYMBOLS**

**SYSTEM IN STORED POSITION** Flat cable shown. Round cable/hose similar.

- **MINIMUM STORAGE DISTANCE (SD)** Horizontal area required for storing system when fully retracted (loop depth is at maximum).
- **TOTAL SYSTEM LENGTH (SL)** Equal to total RAIL LENGTH (RL).

**SYSTEM IN EXTENDED POSITION** Flat cable shown. Round cable/hose similar.

- **INTERMEDIATE TROLLEY** Traveling assembly to which the saddle is attached. Sized according to your input. Computer figure number required.
- **CABLE(S)** Flat or round.
- **CABLE CLAMP, SADDLE** Standard on all trolleys, clamp to bottom of cable loops. Clamp used at bottom of loop organizes cables and prevents "threshing" when cable package consists of more than one cable.
- **CABLE CLAMP, LOOP** Clamp used at bottom of loop organizes cables and prevents "threshing" when cable package consists of more than one cable.
- **END STOP** Secured inside E-Trak. Prevents control unit trolley from overtraveling.
- **TOW TROLLEY** Traveling trolley linked with moving machine. Includes cable saddle or clip.
- **HANGER BRACKET** Supports rail from ceiling or other overhead members. Places evenly along system.
- **COUPLER** Joins two sections of C-Trak. Side adjustable for precise alignment.
- **RUNNING GEAR** Wheels carrying trolleys. Selection based upon your input-weight carried, speed and acceleration of system and special environmental or other wear considerations.
- **LOOP DEPTH (LD)** Distance from top of C-rail track to bottom of cable loops.
- **CLEANER** Minimum 5" clearance should be maintained between bottom of loops and any fixed obstructions in total system length.
- **LOOP DEPTH (ME)** Minimum 5" clearance should be maintained between bottom of loops and any fixed obstructions in total system length.
- **SYSTEM IN EXTENDED POSITION** Flat cable shown. Round cable/hose similar.

**SYSTEM IN STORED POSITION** Flat cable shown. Round cable/hose similar.

- **TOTAL SYSTEM LENGTH (SL)** Equal to total RAIL LENGTH (RL).
... O n the Job

Accessories

NO NEED TO SEARCH FOR THE CORRECT ACCESSORY MODEL!
When the Gleason festoon computer program elects a system, you simply indicate which accessories you desire and the correct model number will be selected for you and identified on the OUTPUT page.

These pages provide support data.

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE INDICATED.

Ty-Raps

Ty-Raps are black nylon with unlocking tensile strength of 120 lbs.

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>BUNDLE RANGE</th>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>TY - 06</td>
<td>0.19 - 2.00</td>
<td>8.00</td>
</tr>
<tr>
<td>TY - 13</td>
<td>0.19 - 3.50</td>
<td>13.88</td>
</tr>
<tr>
<td>TY - 30</td>
<td>1.50 - 9.00</td>
<td>30.00</td>
</tr>
</tbody>
</table>

Cable Clamps

FLAT CAMP DESIGN

SERIES C40-F, C50-F, C60-F

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WINDOW WIDTH</th>
<th>WINDOW HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-F01-Z</td>
<td>1.88</td>
<td>3.75</td>
</tr>
<tr>
<td>CL-F02-Z</td>
<td>2.62</td>
<td>4.50</td>
</tr>
<tr>
<td>CL-F05-Z</td>
<td>5.00</td>
<td>6.88</td>
</tr>
<tr>
<td>CL-F06-Z</td>
<td>6.56</td>
<td>8.44</td>
</tr>
<tr>
<td>CL-F08-Z</td>
<td>8.56</td>
<td>10.44</td>
</tr>
</tbody>
</table>

MIXED CAMP DESIGN

SERIES C40-F, C50-F, C60-F

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WINDOW WIDTH</th>
<th>WINDOW HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-M01-Z</td>
<td>1.88</td>
<td>3.75</td>
</tr>
<tr>
<td>CL-M02-Z</td>
<td>2.62</td>
<td>4.50</td>
</tr>
<tr>
<td>CL-M05-Z</td>
<td>5.00</td>
<td>6.88</td>
</tr>
<tr>
<td>CL-M06-Z</td>
<td>6.56</td>
<td>8.44</td>
</tr>
<tr>
<td>CL-M08-Z</td>
<td>8.56</td>
<td>10.44</td>
</tr>
</tbody>
</table>

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

Clamping pads are neoprene. Hardware is Zinc-plated steel. Finish is orange polyester powder.

Cable Clamps

FLAT CAMP DESIGN

SERIES C40-F, C50-F, C60-F

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WINDOW WIDTH</th>
<th>WINDOW HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-F01-Z</td>
<td>1.88</td>
<td>3.75</td>
</tr>
<tr>
<td>CL-F02-Z</td>
<td>2.62</td>
<td>4.50</td>
</tr>
<tr>
<td>CL-F05-Z</td>
<td>5.00</td>
<td>6.88</td>
</tr>
<tr>
<td>CL-F06-Z</td>
<td>6.56</td>
<td>8.44</td>
</tr>
<tr>
<td>CL-F08-Z</td>
<td>8.56</td>
<td>10.44</td>
</tr>
</tbody>
</table>

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

P cable clamp design

SERIES C40-F, C50-F, C60-F

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WINDOW WIDTH</th>
<th>WINDOW HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL-M01-Z</td>
<td>1.88</td>
<td>3.75</td>
</tr>
<tr>
<td>CL-M02-Z</td>
<td>2.62</td>
<td>4.50</td>
</tr>
<tr>
<td>CL-M05-Z</td>
<td>5.00</td>
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</tr>
<tr>
<td>CL-M06-Z</td>
<td>6.56</td>
<td>8.44</td>
</tr>
<tr>
<td>CL-M08-Z</td>
<td>8.56</td>
<td>10.44</td>
</tr>
</tbody>
</table>

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.

Rail Track Hardware

Series C40, C50, C60

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WIDTH W</th>
<th>HEIGHT H</th>
<th>THICKNESS T</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40 - TR - Z</td>
<td>1.260</td>
<td>1.180</td>
<td>0.079</td>
</tr>
<tr>
<td>C50 - TR - Z</td>
<td>1.575</td>
<td>1.575</td>
<td>0.109</td>
</tr>
<tr>
<td>C60 - TR - Z</td>
<td>1.968</td>
<td>1.968</td>
<td>0.123</td>
</tr>
</tbody>
</table>

Substitute length (06, 12, 18) for "Z" to complete model number.

Rail Track Sections

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>WIDTH W</th>
<th>HEIGHT H</th>
<th>THICKNESS T</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40 - TR - Z</td>
<td>1.260</td>
<td>1.180</td>
<td>0.079</td>
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<tr>
<td>C50 - TR - Z</td>
<td>1.575</td>
<td>1.575</td>
<td>0.109</td>
</tr>
<tr>
<td>C60 - TR - Z</td>
<td>1.968</td>
<td>1.968</td>
<td>0.123</td>
</tr>
</tbody>
</table>

Substitute length (06, 12, 18) for "Z" to complete model number.

Rail Coupler Assemblies

<table>
<thead>
<tr>
<th>MODEL NUMBER</th>
<th>LENGTH L</th>
<th>WIDTH W</th>
<th>HEIGHT H</th>
</tr>
</thead>
<tbody>
<tr>
<td>C40 - CP - Z</td>
<td>4.00</td>
<td>1.59</td>
<td>1.47</td>
</tr>
<tr>
<td>C50 - CP - Z</td>
<td>5.00</td>
<td>2.00</td>
<td>2.00</td>
</tr>
<tr>
<td>C60 - CP - Z</td>
<td>6.25</td>
<td>2.39</td>
<td>2.39</td>
</tr>
</tbody>
</table>

May be supplied with stainless steel hardware. Substitute "S" for "Z" in model numbers above.
**Track Master...**

**Vinyl End Caps**
- **Model Number**: C40 - EC, C50 - EC, C60 - EC
- **Diameter**: 1.50, 1.88, 2.38

**Rail Hanger Assemblies**
- **Model Number**: C40-HB-Z, C50-HB-Z, C60-HB-Z
- **Length**: 3.25, 4.12, 5.00
- **Width**: 1.62, 2.00, 3.12
- **Height**: 1.38, 2.25, 2.70
- **Bolts**: 2.38, 2.40, 4.00

**Rail Endstop Assemblies**
- **Model Number**: C40-ES-Z, C50-ES-Z, C60-ES-Z
- **Length**: 2.00, 2.25, 4.00
- **Width**: 0.88, 1.16, 1.75
- **Height**: 0.88, 1.16, 2.25

**Tow Chain**
- **Model Number**: TC - Z, TC - S
- **Hardware Option**: Zinc Plated, Stainless Steel
- **Jewel**: Hanger Assemblies

**Junction Box**
- **Model Number**: JB - 03 - W, JB - 04 - W
- **Rating**: NEMA 2, NEMA 4
- **Height**: 10, 12, 14, 16
- **Width**: 9.44, 11.44, 13.44, 15.44
- **Depth**: 7.00, 9.00, 11.00, 13.00

**Terminal Blocks**
- **Model Number**: TB - 050, TB - 090, TB - 155, TB - 270
- **Max Rated Amperes**: #24 thru #10, #8 thru #6, # 4 thru #2, #1 thru #3/0

**Terminal Track Assembly**
- **Model Number**: TT - S, TT - D
- **Style**: Single, Double

**End Sections**
- **Model Number**: TE - 050, TE - 090, TE - 155, TE - 270

**Tracks**
Tracks mount in junction boxes and hold terminal blocks.

**Load Limit**
Load limit is 350 lbs.
### NEOPRENE FLAT CABLE

<table>
<thead>
<tr>
<th>AWG</th>
<th>No. Cond.</th>
<th>Thick x Width</th>
<th>Weight/lb/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>4</td>
<td>0.225 x 0.650</td>
<td>0.107</td>
</tr>
<tr>
<td>16</td>
<td>7</td>
<td>0.225 x 0.995</td>
<td>0.188</td>
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<tr>
<td>16</td>
<td>8</td>
<td>0.225 x 1.120</td>
<td>0.208</td>
</tr>
<tr>
<td>16</td>
<td>12</td>
<td>0.245 x 1.430</td>
<td>0.288</td>
</tr>
<tr>
<td>16</td>
<td>24</td>
<td>0.470 x 2.090</td>
<td>0.705</td>
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</table>

### PVC FLAT CABLE

<table>
<thead>
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<th>AWG</th>
<th>No. Cond.</th>
<th>Thick x Width</th>
<th>Weight/lb/ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>4</td>
<td>0.215 x 0.625</td>
<td>0.100</td>
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<tr>
<td>16</td>
<td>8</td>
<td>0.215 x 1.160</td>
<td>0.180</td>
</tr>
<tr>
<td>16</td>
<td>12</td>
<td>0.215 x 1.655</td>
<td>0.270</td>
</tr>
<tr>
<td>16</td>
<td>24</td>
<td>0.470 x 2.090</td>
<td>0.705</td>
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</table>

### FLAT CABLE GLANDS

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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<tr>
<td>GL-FR-</td>
<td>Multi-cable Gland</td>
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<tr>
<td></td>
<td>Cutting charge</td>
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</table>

###brids

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>GL-FP-</td>
<td>Multi-cable Gland</td>
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<tr>
<td></td>
<td>Cutting charge</td>
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</table>

### ROUND CABLE GLANDS

<table>
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<tr>
<th>Model No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>GL-FR-</td>
<td>Multi-cable Gland</td>
</tr>
<tr>
<td></td>
<td>Cutting charge</td>
</tr>
</tbody>
</table>

### Contents

- General Information................................................................. PAGE 1
- Technical Data................................................................. PAGE 10–11
- Ordering................................................................. PAGE 8

### Let Us Recommend a System

Gleason's sophisticated computer program selects the appropriate festoon system based on data contained in this catalog as well as information supplied about your specific requirement. Local factory sales representatives have this program and are available for prompt response to your festoon needs. Please use the work sheet inside to transmit all required data. Send or fax the form to your local Gleason representative or directly to the Gleason factory.

### WARRANTY

Gleason warrants for a period of twelve (12) months after date of shipment, all goods manufactured by it to be free from defects in material and workmanship. If, within such warranty period, any such goods are proved to be defective, such goods shall be repaired or, at Gleason's option, replaced f.o.b. Gleason's factory, without charge. Gleason's obligation hereunder shall be confined to such repair or replacement and shall be further conditioned upon Gleason receiving written notice of any alleged defect within 10 days after its discovery and, at Gleason's option, the return of the alleged defective goods to Gleason, f.o.b. its factory.

Gleason's warranty is in lieu of all other express or implied warranties (except of title) and of all other warranties, whether written or implied, in all respects conform and be limited to the warranty extended to Gleason by the supplier. It being understood that the foregoing warranty shall not apply to goods not manufactured by Gleason, or to goods which shall have been repaired or altered by others than Gleason so as to, in Gleason's judgement, adversely affect the same, or which shall have been subject to other than normal use of service, negligence, accident, or improper maintenance care, or storage. With respect to goods furnished but not manufactured by Gleason, the warranty obligations of Gleason shall be limited to the warranty extended to Gleason by the supplier.
Industrial Duty Festoon Systems

Series C40-c and C50-c

Designed for hose or round cable with 0.31" - 2.38" O.D., depending on clip and series specified. One cable or hose per clip. Available with one, two or three clips per trolley. Refer to pages 10 and 14 for more information.

Series C40-f, C50-f and C60-f

Designed for flat cable with 6.5" maximum cable width, depending on series. Will hold multiple flat cables as long as stacked width does not exceed 6.5" and overall stack height is not greater than 2.3". See pages 12, 16 and 21 for more details.

Series C50-m and C60-m

Designed for mixed load…a combination of hoses and round or flat cables with overall package width of 8.5" or less. Diameters of all hoses or round cables or height of flat cables in package must not vary more than 0.25". Hoses or round cables may not be stacked. See data on pages 19 and 24.

Round Cable & Hose Data

Cable/Hose Weight.

Listings for single hydraulic hose or cable do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/Hose Weight.

Listings for general purpose hose do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/Hose Weight.

Hose Rating and Other Details.

Refer to the National Electric Code for ampere ratings and other details.

Hose General Purpose

Listings for general purpose hose do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/Hose Weight.

Hose Single Hydraulic

Listings for single hydraulic hose do NOT include fluid weight. Specific fluid weights should be added when figuring Total Cable/Hose Weight.

Track-Master® Festoon Systems are available in three sizes, as shown above, and with either clips for round cables/hoses (series C40-C and C50-C only), cable clamps for flat cables (series C40-F, C50-F, and C60-F), or specially designed clamps for holding a mixed load of hoses, round cables and flat cables (series C50-M and C60-M only). See complete technical data in this catalog.

A typical system consists of an end clamp which secures the cable or hose at the non-moving end, a tow trolley or control unit which is moved back and forth manually or by a machine, and a series of intermediate trolleys supporting the cable. The quantity of intermediate trolleys is determined by two factors: the travel distance of the system and the depth of the cable or hose loops. The trolleys roll smoothly in a specially formed “C” shaped track.

Complete line of I-Beam festoons also available...

Contact your local Gleason representative today!
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