HIGH-CAPACITY TENSION LINK LOAD CELLS

OMEGA’s LC702 Series tension links have a 1.8 m (6’) cable, and the LC712 Series links have an integral connector. Both series comprise all stainless steel, high-capacity, in-line tension load cells for applications such as cables on cranes, support rods in architectural designs, engine test beds, and industrial weighing.

**SPECIFICATIONS**

- **Output:** 2 mV/V ±0.25 % FSO
- **Excitation:** 10 Vdc (15V max)
- **Linearity:** ±0.10% FSO
- **Hysteresis:** ±0.05% FSO
- **Repeatability:** ±0.05% FSO
- **Zero Balance:** ±1.0% FSO
- **Operating Temp Range:** -34 to 121°C (-30 to 250°F)
- **Compensated Temp Range:** 16 to 71°C (60 to 160°F)
- **Thermal Effects:**
  - **Zero:** ±0.009% FSO/°C (±0.005%FSO/F)
  - **Span:** ±0.009% FSO/°C (±0.005% FSO/F)
- **Safe Overload:** 150% of capacity
- **Ultimate Overload:** 300% of capacity
- **Bridge Resistance:** 350 Ω
- **Construction:** Stainless steel
- **Electrical:**
  - LC702: 1.8 m (6’) 4-conductor cable
  - LC712: DT02H-10-6P (or equiv.)
- **Protection Class:** IP67
- **Mating Connector:** PT06F10-6S-R, (sold separately)
- **Calibration:** Calibrated in tension
  - *5000 lb to 0-1,000,000 lb 0-2269 kgf to 0-453,721 kgf

**To Order**

**MODELS WITH 1.8 m (6’) CABLE OR WITH INTEGRAL CONNECTOR**

<table>
<thead>
<tr>
<th>CAPACITY (lb)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>5K to 10K</td>
<td>140 (5.50)</td>
<td>32 (1.25)</td>
<td>76 (3.00)</td>
<td>76 (3.00)</td>
<td>1-14 NS</td>
</tr>
<tr>
<td>20K to 50K</td>
<td>165 (6.50)</td>
<td>51 (2.00)</td>
<td>64 (2.50)</td>
<td>76 (3.00)</td>
<td>1½-12 UN</td>
</tr>
<tr>
<td>75K to 100K</td>
<td>200 (7.88)</td>
<td>64 (2.53)</td>
<td>72 (2.84)</td>
<td>76 (3.00)</td>
<td>2½-12 UN</td>
</tr>
<tr>
<td>150K to 200K</td>
<td>250 (9.80)</td>
<td>93 (3.57)</td>
<td>102 (4.01)</td>
<td>8-12 UN</td>
<td></td>
</tr>
<tr>
<td>250K to 300K</td>
<td>323 (12.75)</td>
<td>114 (4.50)</td>
<td>95 (3.75)</td>
<td>141 (5.56)</td>
<td>4-8 UN</td>
</tr>
<tr>
<td>400K to 600K</td>
<td>381 (15.00)</td>
<td>142 (5.63)</td>
<td>95 (3.75)</td>
<td>168 (6.63)</td>
<td>5-8 UN</td>
</tr>
<tr>
<td>750K to 1000K</td>
<td>444 (17.50)</td>
<td>168 (6.63)</td>
<td>108 (4.25)</td>
<td>219 (8.63)</td>
<td>6-8 UN</td>
</tr>
</tbody>
</table>

**ACCESSORY**

<table>
<thead>
<tr>
<th>MODELNO.</th>
<th>DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>PT06F10-6S-R</td>
<td>Mating connector for LC712 series load cells</td>
</tr>
</tbody>
</table>

Comes complete with 5-point NIST-traceable calibration and 59 kΩ shunt data. *4-digit meter, counts by 10.

To order additional cable add length, in feet, to the end of the model number, additional price per foot over 1.8 m (6’).

**Ordering Examples:**
- LC702-5K-25FT, 5000 lb capacity tension link with 7.6 m (25’) 4-conductor cable.
- LC712-100K, 100,000 lb capacity tension link with integral twist-lock connector.
- PT06F10-6S-R, mating connector (sold separately).
- LC702-200K, 200,000 lb capacity tension link with standard 1.8 m (6’) 4-conductor cable.