

# High-Capacity Tension Link Load Cells

**Calibrated in Tension\***  
**5000 lb to 1,000,000 lb**  
**0-2269 kgf to 0-453,721 kgf**

**LC704/LC714 Series**



- ✓ Male to Female Thread Connection
- ✓ All Stainless Steel Construction
- ✓ Accuracy of 0.15%
- ✓ Heavy-Duty Construction for High-Capacity Loads

OMEGA's LC704/714 Series tension links have a male to female thread connection; LC704 with a 1.8 m (6') cable, and LC714 with an integral connector. Both series are comprised of all stainless steel. Applications include cables on cranes, support rods in architectural designs, engine test beds, suspension bridges and industrial weighing.

## Specifications

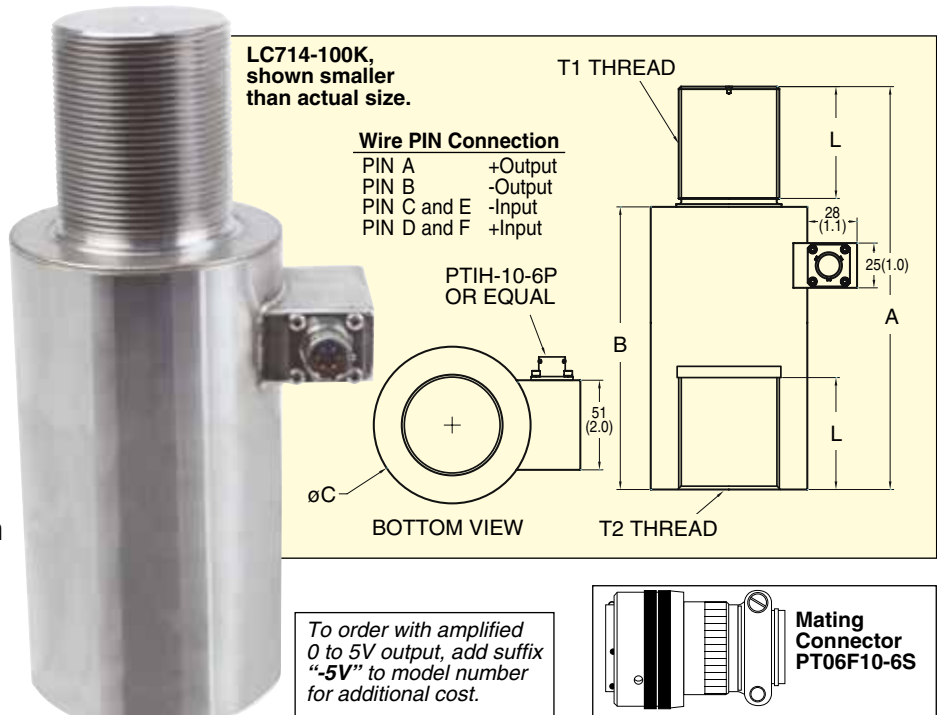
**Output:** 2 mV/V  $\pm$ 0.25 % FSO  
**Excitation:** 10 Vdc (15V max)  
**Linearity:**  $\pm$ 0.10% FSO  
**Hysteresis:**  $\pm$ 0.10% FSO  
**Repeatability:**  $\pm$ 0.05% FSO  
**Zero Balance:**  $\pm$ 1.0% FSO  
**Operating Temp Range:** -34 to 121°C (-30 to 250°F)  
**Compensated Temp Range:** 16 to 71°C (60 to 160°F)  
**Thermal Effects:**  
**Zero:**  $\pm$ 0.005% FSO/°C ( $\pm$ 0.009% FSO/°F)  
**Span:**  $\pm$ 0.005% FSO/°C ( $\pm$ 0.009% FSO/°F)  
**Safe Overload:** 150% of capacity  
**Ultimate Overload:** 300% of capacity  
**Bridge Resistance:** 350  $\Omega$   
**Construction:** Stainless steel  
**Electrical:**  
**LC704:** 1.8 m (6') 4-conductor cable  
**LC714:** DT02H-10-6P (or equiv.)

**Protection Class:** IP67

**Mating Connector:** PT06F10-6S, (sold separately)

**Calibration:** Calibrated in tension\*

\*  $\geq$ 150,000 lb calibrated in compression.  
 For calibrations  $\geq$ 300,000 lb, add suffix "-FS" and consult Sales for price and delivery.



**Dimensions: mm (inch)**

Capacity (lb)	A	B	C	L	T1	T2
5K to 10K	146 (5.75)	114 (4.50)	57 (2.25)	29 (1.125)	1-14 UNS-2A	1-14 UNS-2B
20K to 50K	165 (6.50)	113 (4.46)	76 (3.00)	41 (1.625)	1½-12 UNF-2A	1½-12 UNF-2B
75K to 100K	229 (9.00)	160 (6.31)	89 (3.50)	64 (2.50)	2¼-12 UN-2A	2¼-12 UN-2B
150K to 200K	305 (12.00)	220 (8.65)	140 (5.50)	83 (3.25)	3-8 UN-2A	3-8 UN-2B
250K to 1000K	AVAILABLE, CONSULT SALES					

## To Order

**Models with 1.8 m (6') Cable or with Integral Connector**

Capacity	Cable Style	Conn. Style	Compatible Meters	
5000 lb	2269 kgf	<b>LC704-5K</b>	<b>LC714-5K</b>	DPIS, DP41-S, DP25B-S
10,000 lb	4537 kgf	<b>LC704-10K</b>	<b>LC714-10K</b>	DPIS, DP41-S, DP25B-S
20,000 lb	9074 kgf	<b>LC704-20K</b>	<b>LC714-20K</b>	DPIS, DP41-S, DP25B-S*
30,000 lb	13,612 kgf	<b>LC704-30K</b>	<b>LC714-30K</b>	DPIS, DP41-S, DP25B-S*
50,000 lb	22,686 kgf	<b>LC704-50K</b>	<b>LC714-50K</b>	DPIS, DP41-S, DP25B-S*
100,000 lb	45,372 kgf	<b>LC704-100K</b>	<b>LC714-100K</b>	DPIS, DP41-S, DP25B-S*
150,000 lb	68,058 kgf	<b>LC704-150K</b>	<b>LC714-150K</b>	DPIS, DP41-S, DP25B-S*
200,000 lb	90,744 kgf	<b>LC704-200K</b>	<b>LC714-200K</b>	DPIS, DP41-S, DP25B-S*
300,000 lb	136,116 kgf	<b>LC704-300K</b>	<b>LC714-300K</b>	DPIS, DP41-S, DP25B-S*
500,000 lb	226,860 kgf	<b>LC704-500K</b>	<b>LC714-500K</b>	DPIS, DP41-S, DP25B-S*
1,000,000 lb	453,721 kgf	<b>LC704-1M</b>	<b>LC714-1M</b>	DPIS, DP41-S, DP25B-S*

## Accessory

Model No.	Description
<b>PT06F10-6S</b>	Mating connector for LC714 series load cells

Comes complete with 5-point NIST-traceable calibration and 59 k $\Omega$  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:** **LC704-5K-25FT**, 5000 lb capacity tension link with 7.6 m (25') 4-conductor cable. **LC714-100K**, 100,000 lb capacity tension link with integral twist-lock connector. **PT06F10-6S**, mating connector (sold separately).

**LC704-200K**, 200,000 lb capacity tension link with standard 1.8 m (6') 4-conductor cable.