

High-Capacity Tension Link Load Cells

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

LC706/LC716 Series



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

OMEGA's LC706/716 Series tension links have a female to female thread connection; LC706 with a 1.8 m (6') cable, and LC716 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 & Span: $\pm 0.009\%$ FSO/°C
 ($\pm 0.005\%$ FSO/°F)

Safe Overload: 150% of capacity

Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω

Construction: Stainless steel

Electrical:

LC706: 1.8 m (6') 4-conductor cable

LC716: DT02H-10-6P (or equiv.)

Protection Class: IP67

Mating Connector: PT06F10-6S,

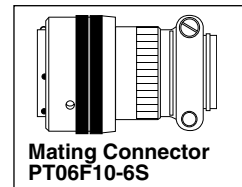
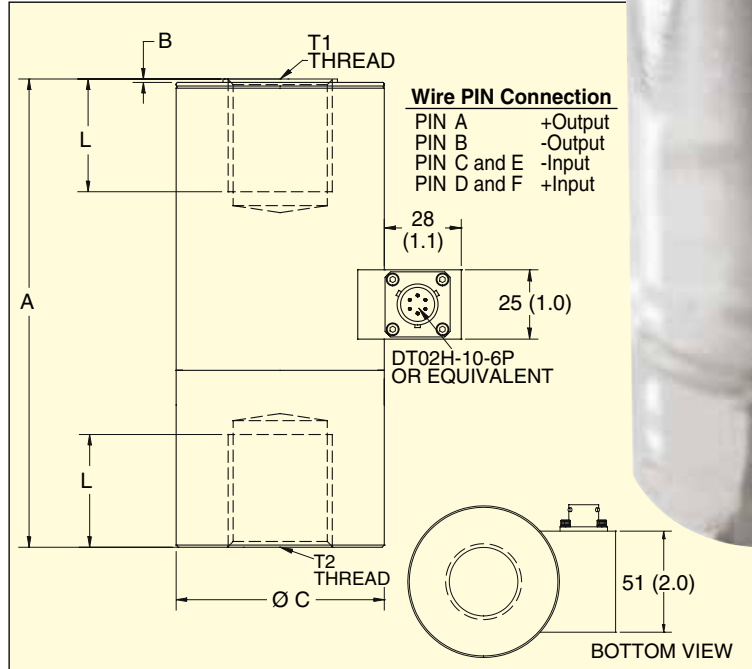
(sold separately)

Calibration: Calibrated in tension for capacities <100K lbs*

* $\geq 100,000$ lb calibrated in compression.

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

LC716-10K, shown smaller than actual size.



To order with amplified 0 to 5V output, add suffix "-5V" to model number for additional cost.

Dimensions: mm (inch)

Capacity (lb)	A	B	C	L	T1	T2
5K to 10K	146 (5.75)	1 (0.03)	57 (2.25)	29 (1.13)	1-14 UNS-2B	1-14 UNS-2B
20K to 50K	171 (6.75)	1 (0.05)	76 (3.00)	44 (1.75)	1½-12 UNF-2B	1½-12 UNF-2B
60K to 100K	254 (10.00)	2 (0.06)	102 (4.00)	70 (2.75)	2¼-12 UN-2B	2¼-12 UN-2B
150K to 200K	356 (14.00)	3 (0.10)	140 (5.50)	95 (3.75)	3-8 UN-2B	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	Connector Style	Compatible Meters	
5000 lb	2269 kgf	LC706-5K	LC716-5K	DP8PT, DP25B-S, DP8EPT, DP41-B
10,000 lb	4537 kgf	LC706-10K	LC716-10K	DP8PT, DP25B-S, DP8EPT, DP41-B
20,000 lb	9074 kgf	LC706-20K	LC716-20K	DP8PT", DP25B-S", DP8EPT, DP41-B
30,000 lb	13,612 kgf	LC706-30K	LC716-30K	DP8PT", DP25B-S", DP8EPT, DP41-B
50,000 lb	22,686 kgf	LC706-50K	LC716-50K	DP8PT", DP25B-S", DP8EPT, DP41-B
100,000 lb	45,372 kgf	LC706-100K	LC716-100K	DP8PT", DP25B-S", DP8EPT, DP41-B
150,000 lb	68,058 kgf	LC706-150K	LC716-150K	DP8PT", DP25B-S", DP8EPT, DP41-B
200,000 lb	90,744 kgf	LC706-200K	LC716-200K	DP8PT", DP25B-S", DP8EPT, DP41-B
300,000 lb	136,116 kgf	LC706-300K	LC716-300K	DP8PT", DP25B-S", DP8EPT, DP41-B
500,000 lb	226,860 kgf	LC706-500K	LC716-500K	DP8PT", DP25B-S", DP8EPT, DP41-B
1,000,000 lb	453,721 kgf	LC706-1M	LC716-1M	DP8PT", DP25B-S", DP8EPT, DP41-B

Accessory

Model No.	Description
PT06F10-6S	Mating connector for LC716 series load cells

Comes complete with 5-point NIST-traceable calibration and 59 k Ω shunt data.

** 4-digit meter, counts in multiples of 10.

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

Ordering Examples: **LC706-5K-25FT**, 5000 lb capacity tension link with 7.6 m (25') 4-conductor cable. **LC716-100K**, 100,000 lb capacity tension link with integral twist-lock connector. **PT06F10-6S**, mating connector (sold separately).

LC706-200K, 200,000 lb capacity tension link with standard 1.8 m (6') 4-conductor cable.