

# 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**

TRODEX'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  $\Omega$

**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,

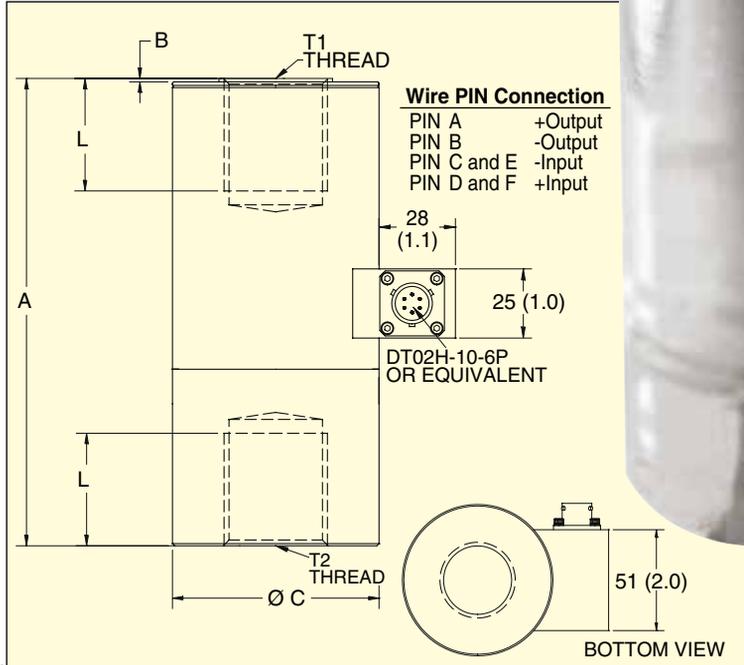
(sold separately)

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

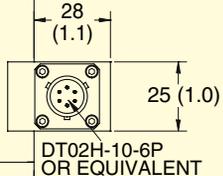
\*  $\geq 100,000$  lb calibrated in compression.

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

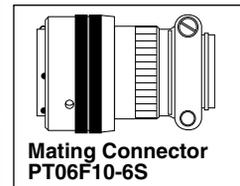
LC716-10K,  
 shown smaller  
 than actual size.



**Wire PIN Connection**  
 PIN A +Output  
 PIN B -Output  
 PIN C and E -Input  
 PIN D and F +Input



DT02H-10-6P  
 OR EQUIVALENT



**Mating Connector**  
**PT06F10-6S**

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	<b>LC706-5K</b>	<b>LC716-5K</b>	DP8PT, DP25B-S, DP8EPT, DP41-B
10,000 lb	4537 kgf	<b>LC706-10K</b>	<b>LC716-10K</b>	DP8PT, DP25B-S, DP8EPT, DP41-B
20,000 lb	9074 kgf	<b>LC706-20K</b>	<b>LC716-20K</b>	DP8PT", DP25B-S", DP8EPT, DP41-B
30,000 lb	13,612 kgf	<b>LC706-30K</b>	<b>LC716-30K</b>	DP8PT", DP25B-S", DP8EPT, DP41-B
50,000 lb	22,686 kgf	<b>LC706-50K</b>	<b>LC716-50K</b>	DP8PT", DP25B-S", DP8EPT, DP41-B
100,000 lb	45,372 kgf	<b>LC706-100K</b>	<b>LC716-100K</b>	DP8PT", DP25B-S", DP8EPT, DP41-B
150,000 lb	68,058 kgf	<b>LC706-150K</b>	<b>LC716-150K</b>	DP8PT", DP25B-S", DP8EPT, DP41-B
200,000 lb	90,744 kgf	<b>LC706-200K</b>	<b>LC716-200K</b>	DP8PT", DP25B-S", DP8EPT, DP41-B
300,000 lb	136,116 kgf	<b>LC706-300K</b>	<b>LC716-300K</b>	DP8PT", DP25B-S", DP8EPT, DP41-B
500,000 lb	226,860 kgf	<b>LC706-500K</b>	<b>LC716-500K</b>	DP8PT", DP25B-S", DP8EPT, DP41-B
1,000,000 lb	453,721 kgf	<b>LC706-1M</b>	<b>LC716-1M</b>	DP8PT", DP25B-S", DP8EPT, DP41-B

## Accessory

Model No.	Description
<b>PT06F10-6S</b>	Mating connector for LC716 series load cells

Comes complete with 5-point NIST-traceable calibration and 59 k $\Omega$  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.