

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

TRODEX'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 Ω

Construction: Stainless steel

Electrical:

LC704: 1.8 m (6') 4-conductor cable

LC714: DT02H-10-6P (or equiv.)

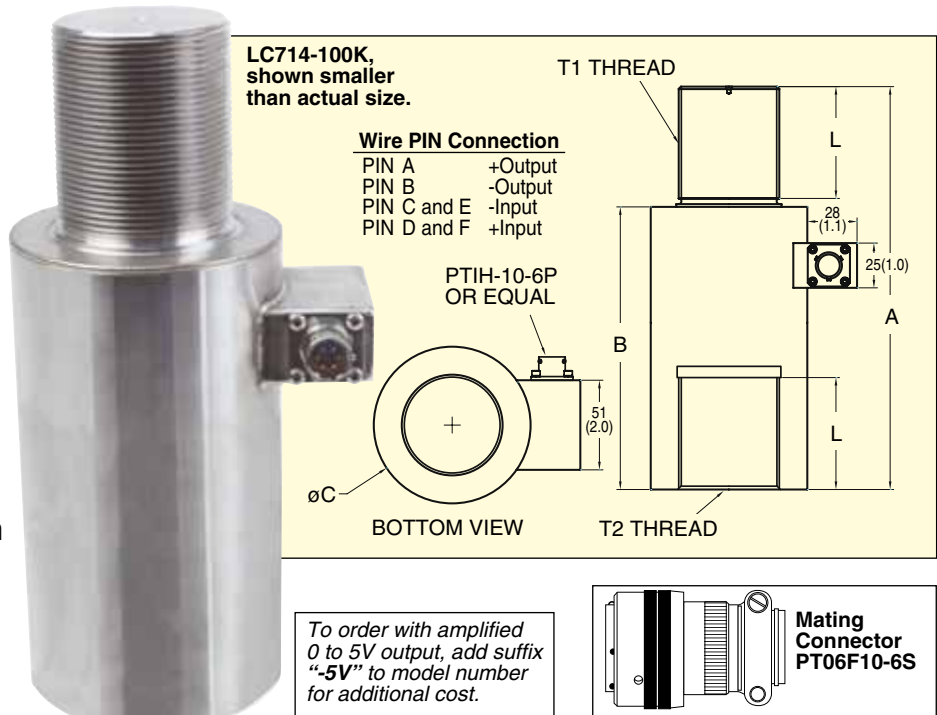
Protection Class: IP67

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	LC704-5K	LC714-5K	DPiS, DP41-S, DP25B-S
10,000 lb	4537 kgf	LC704-10K	LC714-10K	DPiS, DP41-S, DP25B-S
20,000 lb	9074 kgf	LC704-20K	LC714-20K	DPiS, DP41-S, DP25B-S*
30,000 lb	13,612 kgf	LC704-30K	LC714-30K	DPiS, DP41-S, DP25B-S*
50,000 lb	22,686 kgf	LC704-50K	LC714-50K	DPiS, DP41-S, DP25B-S*
100,000 lb	45,372 kgf	LC704-100K	LC714-100K	DPiS, DP41-S, DP25B-S*
150,000 lb	68,058 kgf	LC704-150K	LC714-150K	DPiS, DP41-S, DP25B-S*
200,000 lb	90,744 kgf	LC704-200K	LC714-200K	DPiS, DP41-S, DP25B-S*
300,000 lb	136,116 kgf	LC704-300K	LC714-300K	DPiS, DP41-S, DP25B-S*
500,000 lb	226,860 kgf	LC704-500K	LC714-500K	DPiS, DP41-S, DP25B-S*
1,000,000 lb	453,721 kgf	LC704-1M	LC714-1M	DPiS, DP41-S, DP25B-S*

Accessory

Model No.	Description
PT06F10-6S	Mating connector for LC714 series load cells

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