

HIGH-CAPACITY TENSION LINK LOAD CELLS

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

LC702/LC712 Series



- ✓ All Stainless Steel Construction
- ✓ Accuracy of 0.15%
- ✓ Heavy-Duty Construction for High-Capacity Loads

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 $\pm 0.25\%$ 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: $\pm 0.009\%$ FSO/°C

($\pm 0.005\%$ FSO/°F)

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:

LC702: 1.8 m (6') 4-conductor cable

LC712: 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.



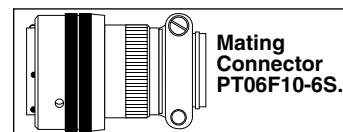
LC712-5K,
Shown smaller
than actual size.

Wire PIN Connection
GN A +Output
WT B -Output
BK C&E -Input
RD D&F +Input

PTIH-10-6P
OR EQUAL

"E THREAD"

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



Mating
Connector
PT06F10-6S.

Dimensions: mm (inch)

CAPACITY (lb)	A	B	C	D	E
5K to 10K	140 (5.50)	32 (1.25)	76 (3.00)	76 (3.00)	1-14 NS
20K to 50K	165 (6.50)	51 (2.00)	64 (2.50)	76 (3.00)	1½-12 UN
75K to 100K	200 (7.88)	64 (2.53)	72 (2.84)	76 (3.00)	2¼-12 UN
150K to 200K	260 (10.25)	83 (3.25)	95 (3.75)	102 (4.10)	3-8 UN
250K to 300K	323 (12.75)	114 (4.50)	95 (3.75)	141 (5.56)	4-8 UN
400K to 600K	381 (15.00)	142 (5.63)	95 (3.75)	168 (6.63)	5-8 UN
750K to 1000K	444 (17.50)	168 (6.63)	108 (4.25)	219 (8.63)	6-8 UN

To Order Visit newportUS.com/lc702 for Pricing and Details

MODELS WITH 1.8 m (6') CABLE OR WITH INTEGRAL CONNECTOR

CAPACITY	CABLE STYLE	CONN. STYLE	COMPATIBLE METERS
5000 lb 2269 kgf	LC702-5K	LC712-5K	DPIS, DP41-S, DP25B-S
10,000 lb 4537 kgf	LC702-10K	LC712-10K	DPIS, DP41-S, DP25B-S
20,000 lb 9074 kgf	LC702-20K	LC712-20K	DPIS, DP41-S, DP25B-S*
30,000 lb 13,612 kgf	LC702-30K	LC712-30K	DPIS, DP41-S, DP25B-S*
50,000 lb 22,686 kgf	LC702-50K	LC712-50K	DPIS, DP41-S, DP25B-S*
100,000 lb 45,372 kgf	LC702-100K	LC712-100K	DPIS, DP41-S, DP25B-S*
150,000 lb 68,058 kgf	LC702-150K	LC712-150K	DPIS, DP41-S, DP25B-S*
200,000 lb 90,744 kgf	LC702-200K	LC712-200K	DPIS, DP41-S, DP25B-S*
300,000 lb 136,116 kgf	LC702-300K	LC712-300K	DPIS, DP41-S, DP25B-S*
500,000 lb 226,860 kgf	LC702-500K	LC712-500K	DPIS, DP41-S, DP25B-S*
1,000,000 lb 453,721 kgf	LC702-1M	LC712-1M	DPIS, DP41-S, DP25B-S*

ACCESSORY

MODEL NO.	DESCRIPTION
PT06F10-6S	Mating connector for LC712 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: 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, mating connector (sold separately).

LC702-200K, 200,000 lb capacity tension link with standard 1.8 m (6') 4-conductor cable.