

LOW-CAPACITY TENSION LINK LOAD CELLS

INTERNAL THREAD DESIGN

STANDARD AND METRIC MODELS

Calibrated in Tension
0-100 lb to 0-2000 lb
0-50 kgf to 0-1000 kgf

LC701/LCM701 Series
LC711/LCM711 Series



Standard

- ✓ All Stainless Steel Construction
- ✓ Accuracy 0.15%
- ✓ Rugged Design for Industrial Applications
- ✓ 5-Point NIST Traceable Calibration in Tension

The LC701/LCM701 Series tension links have a 1.8 m (6') cable with stripped end termination. The LC711/LCM711 Series units have an integral connector on the body. These stainless steel load cells are ideal for measuring in-line tension forces. Applications include cables on cranes, support rods in architectural designs, engine test beds, and industrial weighing.

SPECIFICATIONS

Output: 3 mV/V $\pm 0.25\%$ FSO

Excitation: 10 Vdc (15V maximum)

Linearity:

>100 lb: $\pm 0.10\%$ FSO

≤ 100 lb: $\pm 0.20\%$ FSO

Hysteresis: $\pm 0.10\%$ FSO

Repeatability: $\pm 0.05\%$ FSO

Zero Balance: $\pm 1.0\%$ FSO

Operating Temp. Range:

-46 to 121°C (-50 to 250°F)

Compensated Temp. Range:

16 to 71°C (60 to 160°F)

Thermal Effects:

Zero: $\pm 0.0045\%$ FSO/°C

Span: $\pm 0.007\%$ rdg/°C

Safe Overload: 150% of capacity

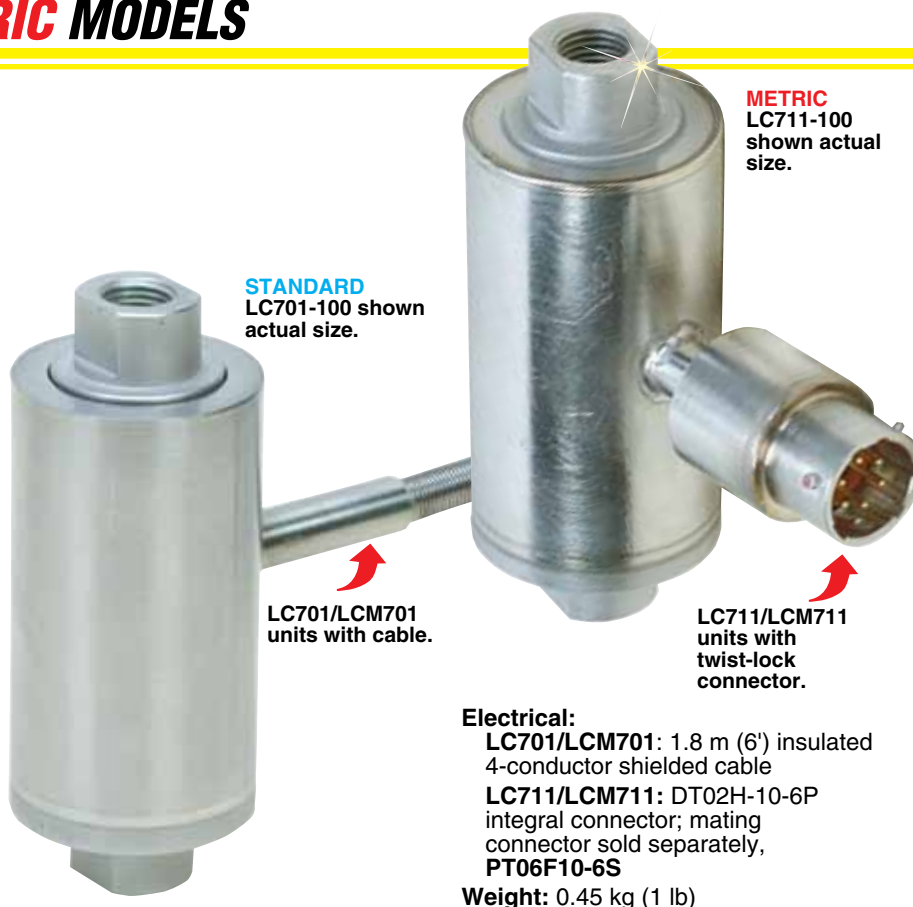
Ultimate Overload: 300% of capacity

Bridge Resistance: 350 Ω

Full Scale Deflection: 0.025 to 0.102 mm (0.001 to 0.004")

Protection Class: IP65

Construction: Stainless steel



LC701/LCM701 units with cable.

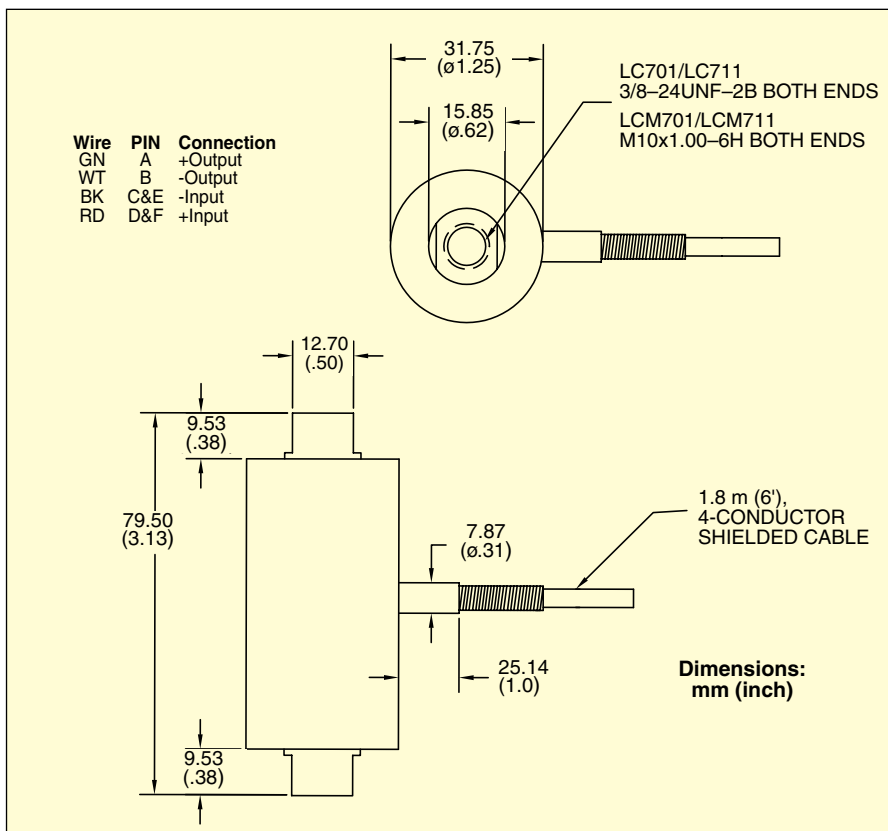
LC711/LCM711 units with twist-lock connector.

Electrical:

LC701/LCM701: 1.8 m (6') insulated 4-conductor shielded cable

LC711/LCM711: DT02H-10-6P integral connector; mating connector sold separately, **PT06F10-6S**

Weight: 0.45 kg (1 lb)



LOW-CAPACITY TENSION LINK LOAD CELLS

To Order					
CAPACITY		CABLE STYLE MODEL NO.	CONNECTOR STYLE MODEL NO.	COMPATIBLE METERS	
STANDARD MODELS					
100 lb	45 kgf	LC701-100	LC711-100	DPiS, DP41-S, DP25B-S	
250 lb	114 kgf	LC701-250	LC711-250	DPiS, DP41-S, DP25B-S	
750 lb	341 kgf	LC701-750	LC711-750	DPiS, DP41-S, DP25B-S	
1000 lb	455 kgf	LC701-1K	LC711-1K	DPiS, DP41-S, DP25B-S	
2000 lb	909 kgf	LC701-2K	LC711-2K	DPiS, DP41-S, DP25B-S	
METRIC MODELS					
50 kgf	110 lb	LCM701-50	LCM711-50	DPiS, DP41-S, DP25B-S	
500 kgf	1100 lb	LCM701-500	LCM711-500	DPiS, DP41-S, DP25B-S	
1000 kgf	2200 lb	LCM701-1K	LCM711-1K	DPiS, DP41-S, DP25B-S	

ACCESSORIES

MODEL NO.	DESCRIPTION
REC-038M	3/8"-24 male rod end
PT06F10-6S	Mating connector for LC711/LCM711 series load cells

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

Ordering Examples: LC701-1K, 1000 lb capacity tension link with 1.8 m (6') cable.

LC711-250, 250 lb capacity tension link with integral connector on the body.

LCM701-1K, 1000 kgf capacity tension link with 1.8 m (6') cable.

LCM711-50, 50 kgf capacity tension link with integral connector on the body.

PT06F10-6S, mating connector (sold separately).

MAKE IT WIRELESS! ADD WIRELESS CAPABILITY TO YOUR PROCESS MEASUREMENT SYSTEM!

Wireless Connections
From Your Sensor to Your
Instrumentation:

- ✓ Thermocouple, RTD, Infrared Temperature, Humidity, pH, as well as Process Voltage/Current
- ✓ Easy to Install and Use
- ✓ Capable of Distances up to 120 m (400')

WRS232-USB wireless transmitter shown close to actual size.

Wireless Communications
From Your Instrument to
a PC:

- ✓ Convert the RS232 Signal on Your Meter, Controller or PLC
- ✓ Works with any PC with a USB Port
- ✓ Easy to Install with Seamless Operation
- ✓ Capable of Distances up to 120 m (400')