

## Low Temp. Tension Load Cell



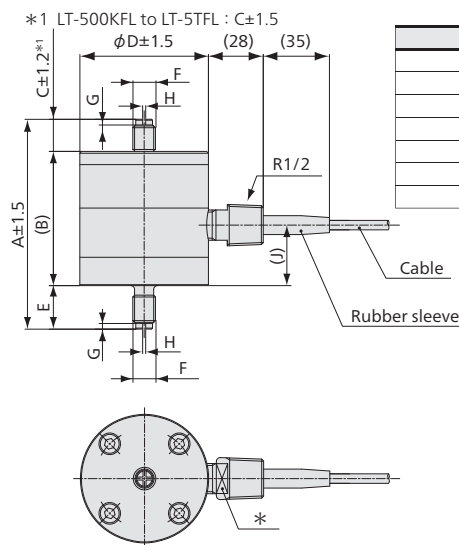
\*TEDS-installed models are available. Inquiries are welcome.

**High reliability**  
**Airtight structure**  
**Selectable from a wide range of**  
**rated capacity.**

●With the mechanical stopper that activates at 500% overload

LT-FL series enable operation at ultra-low temperature of -196°C.

### ■ Dimensions



Models	A	(B)	C	φD	E	F	G	H	(J)
LT-50KFL	111	71	17	68	23	M12x1.75	3	1.6	32
LT-100KFL					27	M14x2	5	3	36
LT-200KFL					33	M18x1.5			
LT-500KFL	129	82	20		44	M24x2			
LT-1TFL	143	84	26	96	55	M39x3	6	6	48
LT-2TFL	168	89	35						
LT-5TFL	236	126	55						

LT-50 to 200KFL

LT-500 to 2TFL

LT-5TFL

\*Flat to flat positions are not specified.

### Specifications

#### Performance

Rated Capacity	See table below.
Nonlinearity	Within ±0.5% RO
Hysteresis	Within ±0.5% RO
Repeatability	0.05% RO or less
Rated Output	1.5 mV/V ±0.2%

#### Environmental Characteristics

Safe Temperature	FL: -200 to 80°C (Excluding connector)
Compensated Temperature	FL: -196 to 30°C (Excluding connector)
Temperature Effect on Zero	Within ±0.005% RO/°C
Temperature Effect on Output	Within ±0.01%/°C

#### Electrical Characteristics

Safe Excitation	20 V AC or DC
Recommended Excitation	1 to 10 V AC or DC
Input Resistance	350 Ω ±0.5%
Output Resistance	350 Ω ±0.5%
Cable	4-conductor (0.3 mm <sup>2</sup> ) fluoroplastic shielded cable, 5 mm diameter by 5 m long, terminated with a connector plug PRC03-12A10-7M (Shield wire is not connected to the case.)

#### Mechanical Properties

Safe Overloads	200%
Ultimate Overloads	500%
Natural Frequencies	See table below.
Weight	See table below.

Optional Accessories Rotating attachment RJ  
Ball joint TU  
Hook THD  
Shackle TRD

Models (FL)	Rated Capacity	Natural Frequencies (Approx.)	Weight* (Approx.)
●LT-50KFL	500 N	1.5 kHz	1.7 kg
●LT-100KFL	1 kN	2.6 kHz	
●LT-200KFL	2 kN	4.1 kHz	
●LT-500KFL	5 kN	5.0 kHz	2.0 kg
●LT-1TFL	10 kN	5.2 kHz	2.1 kg
●LT-2TFL	20 kN	5.8 kHz	2.4 kg
●LT-5TFL	50 kN	4.5 kHz	7.0 kg

●For delivery date, please contact us.

\*Excluding cable

Connector plug  
PRC03-12A10-7M



Load Cells  
(Load Transducers)

Outline

Compressive

Tensile

Tensile &amp; compressive

Component

Special

Other