MODEL: STLC



STLC Bow Type Crosby™ Cabled Load Shackle

Features

- Ranges from 1 tonne to 400 tonne
- O High tensile carbon steel
- Environmentally sealed to IP67
- Simple installation and operation
- Shackle and load pin fully certified
- Optional load centralisng bobbin
- Can be supplied with amplified
- Many other options available

Typical Applications

- Under-hook hoist/crane weighing
- Cable tension monitoring
- Towing/mooring Tension
- Crane safe load monitoring

Description

The Load Cell Central range of load shackles are designed for lifting and weighing in harsh environments. The load cell shackle pins are forged from high tensile stainless steel and are machined to an exacting specification. The basic shackle uses the Crosby G2130 (1 to 25te) and G2140 (40 to 400te) series.

This range of load cells are proof loaded to 150% of the normal rated load, and is available in a range from 1 tonne to 400 tonne. The integral cable is normally enclosed in an armoured rubber hydraulic hose to give physical and environmental protection. The STLC is internally gauged and the whole instrumented area is sealed to IP67 to protect it in service.

The STLC is simple to install and are available in standard shackle sizes. As an option, a rotating bobbin can be supplied to centralise the load and to minimise any point-load effects when the shackle is placed under load. We are also always happy to discuss any special requirements that you may have.

The STLC series can be supplied on its own or combined with our extensive range of instrumentation to provide a complete load monitoring package.

Specification

Rated load (tonnes)	1, 2, 3.25, 4.75, 6.5, 9.5, 12, 17, 25, 40, 55, 85, 120, 150					
	200, 300, 400					
Proof load	150% of rated load					
Ultimate breaking load	300% of rated load					
Output	Between 1.8mV and 3.6mV					
Non-linearity	<±1% of rated load (typically)					
Non-repeatablity	<±0.1% of rated load					
Excitation voltage	10vdc recommended, 15vdc maximum					
Bridge resistance	350Ω					
Insulation resistance	>500MΩ @ 500vdc					
Operating temperature range	-20 to +70°C					
Compensated temperature range	-10 to +50°C					
Zero temperature coefficient	<±0.01% of rated load/°C					
Span temperature coefficient	<±0.01% of rated load/°C					
Environmental protection level	IP67					
Connection type	10 metre 4 core screened PUR cable (glanded exit)					
Wiring connections	+ supply: Red - supply: Blue					
	+ signal: Green - signal: Yellow					

Toll Free: 1-800-562-3235

Ph: 1-570-731-7048

Fax: 1-570-731-7054

Available Options

- Custom ranges and capacities up to 2000te
- Special electrical connections
- Integral signal conditioning
- Centralising load bobbin
- Subsea and offshore versions
- TEDS option (when used with AHM handheld display)
- ATEX version available (



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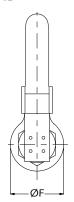
Lel Centra 1-800-LOADCEL

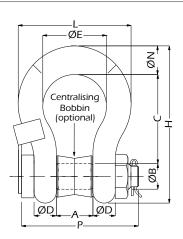
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Special Options

The STLC can be supplied in any range, between 1te and 400te and calibrated as Special required. Usually we will choose the nearest standard shackle size. We can also offer ranges special design shackles up to 2000te. Contact Load Cell Central for more details The standard STLC cable exits the shackle pin via a gland and is restrained using the anti-rotation bracket. We can offer variations to the electrical connection method. For Special electrical example, integral connectors, special cable length etc. For more details contact our sales department. We can offer various integral signal conditioning options: **Analog Signals** 4-20mA 2-wire current output (7.5 to 30vdc supply) Integral 4-20mA 3-wire current output (10 to 30vdc supply) signal 0-5vdc 3-wire voltage output (8.5 to 28vdc supply) conditioning 0-10vdc 3-wire voltage output (13 to 30vdc supply) **Digital Signals** RS232 digital - various protocols (5.4 to 18vdc supply) RS485 digital - various protocols (5.4 to 18vdc supply) We can offer an optional centralising bobbin. This helps improve Centralising the overall accuracy in certain cable tension applications. The bobbin is shown bobbin pictorially in the drawing below. We are able to offer fully submersible versions, which are normally supplied with Subsea or underwater mateable connectors. These versions can also be pressure tested by LCC offshore and witnessed by a third party at any point through the manufacturing process. We regularly have ABS, Lloyds or DNV inspectors on site. We have a version available that requires no cable connection, using radio telemetry Radio to transmit data. There is a separate data sheet available for this product (WL-STLC). telemetry

Dimensions





All dimensions are in mm

Rating (tonnes)	Α	ØB	С	ØD	ØE	ØF	н	L	ØN	Р	Weight (kgs)
1	16.8	11.2	36.6	9.65	26.2	23.1	63	44.2	9.65	90	2
2	20.6	16	47.8	12.7	33.3	30.2	83.5	58.5	12.7	97	2.3
3.25	26.9	19.1	60.5	16	42.9	38.1	106	74.5	17.5	96	2.8
4.75	31.8	22.4	71.5	19.1	51	46	126	89	20.6	111	3
6.5	36.6	25.4	84	22.4	58	53	148	102	24.6	122	3.2
9.5	46	31.8	108	28.7	74	68.5	190	131	31.8	156	5.2
12	51.5	35.1	119	31.8	82.5	76	210	146	35.1	171	8
17	60.5	41.4	146	38.1	98.5	92	254	175	41.1	201	12
25	73	51	178	44.5	127	106	313	225	57	236	18
40	73	50.8	178	44.5	127	106	313	225	57	236	18
55	82.5	57.2	197	50.8	146	122	347	258	61	269	25
85	105	69.9	267	66.5	184	148	455	324	79.2	351	45
120	127	82.5	330	76	200	165	546	365	92	387	85
150	133	95.5	372	95.5	229	203	625	419	105	448	125
200	184	121	397	95.5	279	267	743	533	152	580	215
300	213	152	495	121	330	305	895	635	172	610	364
400	255	175	650	165	325	350	1078	655	165	700	520

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