

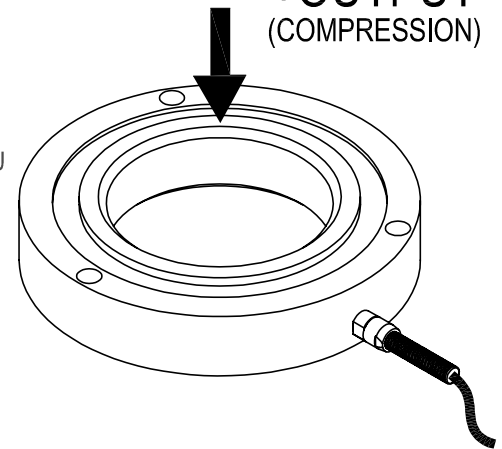
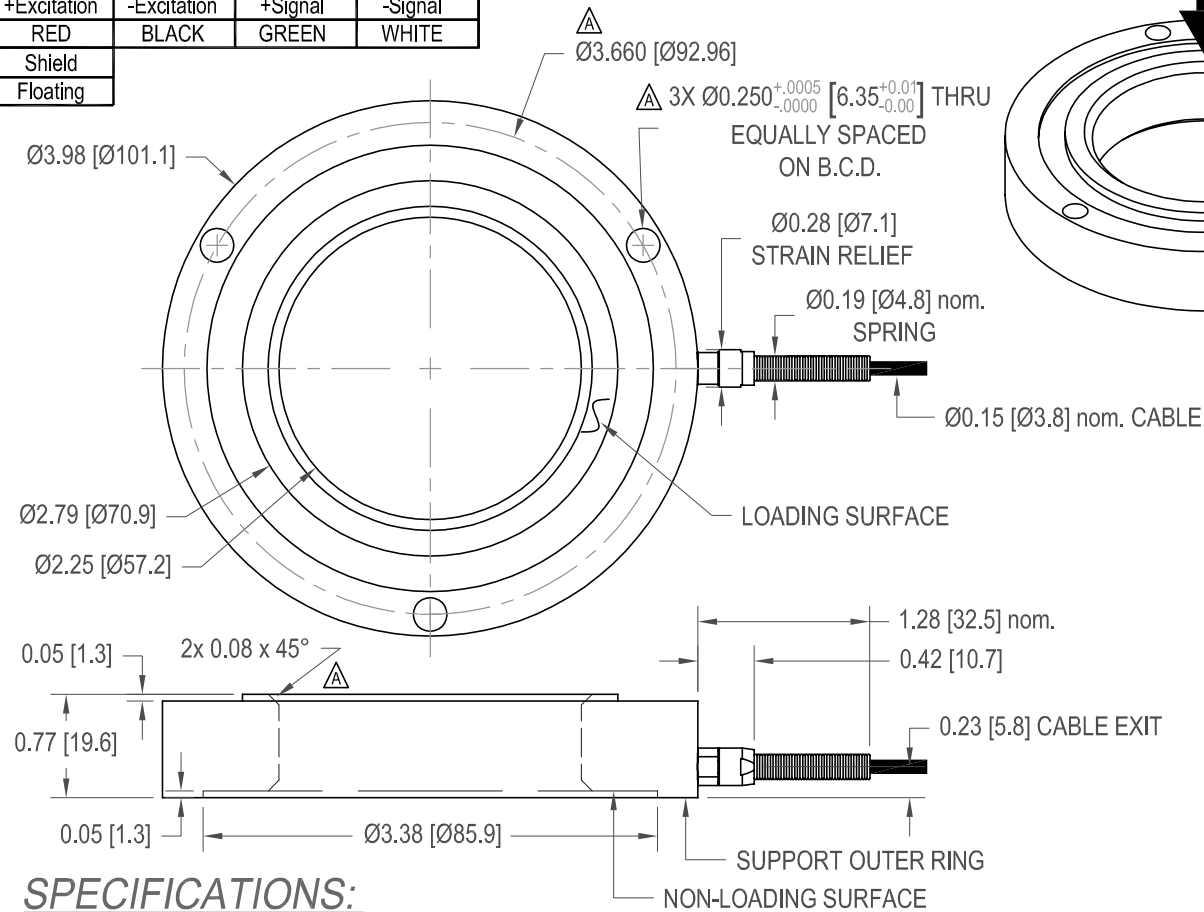
# FUTEK MODEL QLA277

# CUSTOM DONUT LOAD CELL

STOCK NUMBER: QSH00838

INCH (mm)		R.O.= Rated Output	
WIRING CODE (WC1)			
+Excitation	-Excitation	+Signal	-Signal
RED	BLACK	GREEN	WHITE
Shield			
Floating			

**+OUTPUT**  
(COMPRESSION)



## SPECIFICATIONS:

RATED OUTPUT	2 mV/V nom.
CAPACITY	50K lbs
SAFE OVERLOAD	150% of R.O.
ZERO BALANCE	±3% of R.O.
EXCITATION (VDC OR VAC)	18 max.
BRIDGE RESISTANCE	350/700Ω nom.
NONLINEARITY	±1% of R.O.
HYSTERESIS	±1% of R.O.
NONREPEATABILITY	±0.5% of R.O.
TEMP. SHIFT ZERO	±0.02% of R.O./°F (0.04% of R.O./°C)
TEMP. SHIFT SPAN	±0.02% of LOAD/°F (0.04% of LOAD/°C)
COMPENSATED TEMP.	60 to 160°F (15 to 72°C)
OPERATING TEMP.	-60 to 200°F (-50 to 93°C)
WEIGHT	1.5 lbs
MATERIAL	Stainless Steel
CABLE: #24 AWG, 4 Conductor, Braided Shielded, PVC Cable, 10 ft [3 m] Long.	

## NOTE:

WHILE TORQUING BOLTS, HIGH TENSION FORCES WILL OCCUR DURING INSTALLATION, WHICH COULD RESULT IN OVERLOADING THE SENSOR. FUTEK RECOMMENDS CONNECTING SENSOR TO A SYSTEM IN ORDER TO MONITOR THE APPLIED FORCES. FUTEK IS NOT LIABLE OR RESPONSIBLE FOR THE MISHANDLING OF THE SENSOR DURING INSTALLATION.

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MATERIAL:

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HEAT TREATMENT - FINISH:

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REVISIONS: (Refer to dwg # revision sheet)

△ 11-13-06

## OUTLINE DRAWING

STANDARD NOTES: (Unless Otherwise Specified)

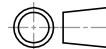
- ALL DIMENSIONS ARE IN INCHES
- DRAWING INTERPRETATION DIMS. PER ASME-Y14.5M
- REMOVE BURRS AND BREAK SHARP EDGES .005 - .015
- THREADS PER HANDBOOK H-28
- DIMENSIONS ARE SHOWN AFTER PLATING

ANGLE:  
±1/2°

CHAMFER:  
±5°

TOLERANCE:  
.X ±0.1  
.XX ±0.01  
.XXX ±0.005

3rd ANGLE PROJ.



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**FUTEK**  
ADVANCED SENSOR TECHNOLOGY, INC.

**CAGE: 1X8M6**

MODEL: **QLA277**

DWG No.: **FO1157**

DRAWN BY: **H. AU**

CHECKED BY: **J. VARGAS**

APPROVED BY: **R. WALKER**

DATE: **NOV. 7, 2006**