FUTEK MODEL QLA277   CUSTOM DONUT LOAD CELL
STOCK NUMBER: QSH00838

INCH (mm)	R.O.= Rated Output

+OUTPUT
(COMPRESSION)

WIRING CODE (WC1)

+Excitation	-Excitation	+Signal	-Signal
RED	BLACK	GREEN	WHITE
Shield			
Floating			

Ø3.98 [Ø101.1]

Ø3.660 [Ø92.96]

⚠ 3X Ø0.250$^{+.0005}_{-.0000}$ [6.35$^{+0.01}_{-0.00}$] THRU
EQUALLY SPACED
ON B.C.D.

Ø0.28 [Ø7.1]
STRAIN RELIEF

Ø0.19 [Ø4.8] nom.
SPRING

Ø0.15 [Ø3.8] nom. CABLE

LOADING SURFACE

Ø2.79 [Ø70.9]
Ø2.25 [Ø57.2]

0.05 [1.3]
2x 0.08 x 45°

0.77 [19.6]

0.05 [1.3]   Ø3.38 [Ø85.9]

1.28 [32.5] nom.
0.42 [10.7]

0.23 [5.8] CABLE EXIT

SUPPORT OUTER RING
NON-LOADING SURFACE
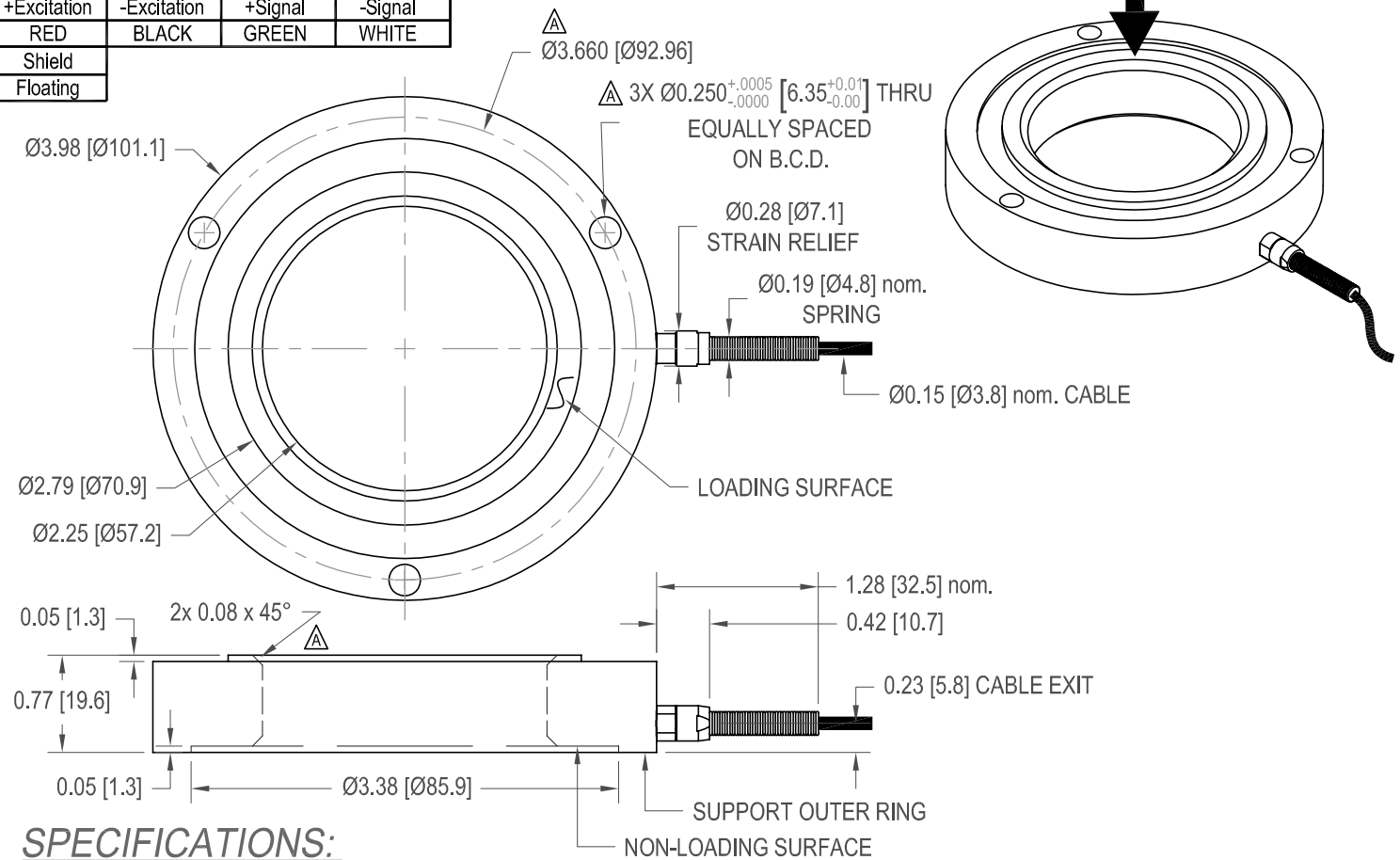
SPECIFICATIONS:

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.