



RC0.6

X-Ray Beam Measurements

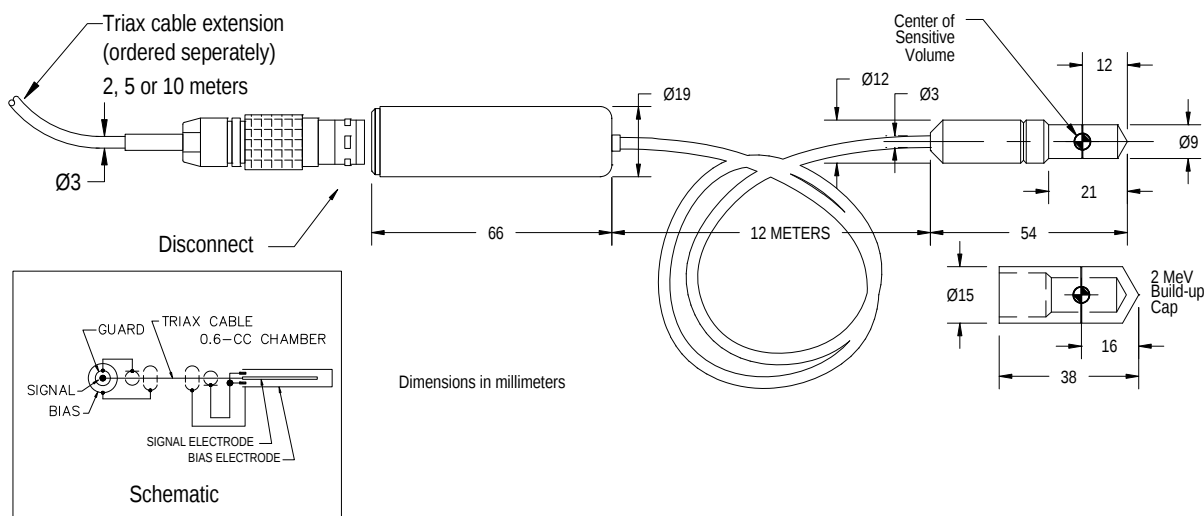
This high dose rate chamber provides an excellent response at therapy and other high energy, high dose rate applications. The fully guarded chamber is mounted at the end of a 12 m low noise triax cable.

EXPOSURE RATE DEPENDENCE:	$\pm 2\%$, $5\text{e-}4$ mGy/s to $2\text{e+}3$ mGy/s
ENERGY DEPENDENCE:	$\pm 5\%$, 40 keV to 1.33 MeV
BIAS:	Nominal +300 VDC (max +600 VDC)
ELECTRICAL LEAKAGE:*	$<5\text{e-}15$ A with +300 VDC bias, using 2m triax cable extension
CONSTRUCTION:	C552 air-equivalent material & electrode; polyacetal exterior cap; 0.6 cm ³ active volume; 12 m, low-noise triax cable; 0.28 kg

*cable length dependent

Nominal Chamber Volume and Sensitivity ($\pm 10\%$)

Chamber Model	Volume cm ³	C/mGy 20 °C	C/mGy 22 °C	C/R 20 °C	C/R 22 °C
RC0.6	0.6	2.1E-11	2.1E-11	1.9E-10	1.9E-10



**-0.6 Ion Chamber
Energy Dependence**

