PRODUCT FAMILY

EXPANDING TUBE ASSEMBLY (XTA)

Expanding Tube Assemblies (XTA), also known as Expanding Shielded Mild Detonating Cord (XSMDC), are used to provide explosively driven, contamination-free reliable separation. The expanding tube assembly is a formed stainless steel tube containing a linear Mild Detonating Cord (MDC). The tube is formed into an oval shape and sealed on both ends by welded end fittings which include loaded booster shells. These shells provide means for redundant initiation of the assembly. After initiation, the MDC propagates and the energy expands the tube creating the necessary mechanical impulse to achieve separation of the targeted assembly. Targets for separation include aluminum ligaments, acrylic panels, frangible hooks, or other frangible structures as desired by customer specification.

APPLICABLE SPECIFICATIONS

Operating Temperature:	-70°F to +180°F
Output:	Severance of .075" Aluminum
	Severance of .150" Stretched Acrylic
Initiation:	Electrical Detonator with typical 1 grain Booster Shell
	Energy Transfer Line – SMDC, FCDC
TSH&A:	28 days per MIL-D-21625
Salt Fog:	Mil-D-21625
Sand & Dust:	Mil STD 810-G
Icing:	Mil STD 810-G

SHOCK

Frequency (Hz)	Spectrum Level (Q = 10)
100	30
100 - 3000	+5.3dB/Octave
3000 +	2125G

ENVELOPE & DIMENSIONS