PRODUCT FAMILY

SHIELDED MILD DETONATING CORD

SMDC provides reliable detonation signal propagation from one point to another while containing the detonation by-products. The SMDC lines can be arranged in various systems with the use of manifolds and other energetic components (one ways, time delays, and / or gates) to provide a self-contained energetic transmission system that can accomplish specific mission applications such as fracturing/severance, egress of aircrew, structural cutting, rocket stage separation, destruct sequences to terminate flight and operation / initiation of energetic devices. Containment of the detonation products allows for the system to be used in close proximity to personnel and to systems that are sensitive to contamination such as optics.

Explosive functions during emergency egress of an SMDC line include operating emergency oxygen valves, actuating cable cutters, igniting rocket motors, activating shaped charges and deploying parachutes.

APPLICABLE SPECIFICATIONS

Hermetic Seal:	≤ 10-5 cc/sec (air)
Humidity:	100% of water or frost
Withstanding Pressure:	Operate in complete vacuum or under water to the tubing crush strength
Storage Temperature:	-80°F to +200°F
Operating Temperature:	-65°F to +350°F, will withstand 425°F for periods of 5 minutes
Vibration:	80 to 2000 cps +/- 20G
Shock:	3 shocks of 40G in any direction
Acceleration:	40G in any direction
Drop Test:	6 foot drop – operational 40 foot drop – safe to handle
Plate Dent Test:	0.010 inch minimum dent depth in steel plate 0.040 inch minimum dent depth in aluminum plate
Initiation:	No. 6 Blasting Cap or various qualified devices available through PacSci EMC (Arm Fire Initiators, Lanyard Pull Initiators, Electrical Detonators, EFIs, Safe Arm Devices)
Transfer Gap:	0.02 inch to 0.10 inch, tip to tip

ENVELOPE & DIMENSIONS