RAPID DEFLAGRATION CORD TRANSFER LINE (RDCTL)

The Rapid Deflagration Cord Transfer Line (RDCTL) offers a robust design with flexibility required in modern emergency escape systems. That flexibility includes smaller diameter for easier routing, an assortment of end tips for various input and output combinations (LE-Low Energy, HE- High Energy, PP- Percussion Primer), high tolerance to extreme environmental conditions and durable materials to meet the physical demands of emergency egress systems. RDCTLs use the basic Rapid Detonation Cord (RDC) confined in an outer casing compromised of braids and extrusions or a metal tube with end fittings for a sealed system.

APPLICABLE SPECIFICATIONS

Operating Temperature:	−320°F to +700°F (Refers to operating temperature of the RDC material only)
High Temperature Storage:	All lines at+350°F for 50 hours except lines with PP end tip then +200°F for 50 hours (Limiting factor is the percussion primer)
Hermetic Seal:	£ 1×10-5 cc/sec. Air
Gunfire Vibration:	100 – 1,700 lbs. force typical
Salt/Fog:	MIL-STD-810, Method 509.2: 5%+1% Salt Solution at +95°F ± 5°F for a period of 168 hours
Temperature/Shock/ Humidity/Altitude (TSH&A):	MIL-C-83124 at 70K Feet Altitude. 3 durations: 28 days, 56 days, and 84 days. Temperature range from −65°F to +160°F and humidity between 50% and 95% RH per test method requirements
Flexibility Test:	MIL-C-83124 paragraph 4.5.11.10: Temperature −80°F & stabilized, then placed in+100°F/90% relative humidity until ice disappears, then −80°F & stabilized, then fired at −80°F
Pressure Cycling:	Units subjected to 100 pressure cycles, 50 at −65°F and 50 at +250°F with pressure between .83 inches Hg to 29.92 inches Hg
Vibration:	Sinusoidal Cycling (5-50 Hz) for 30 minutes along 3 axes for each temperature of −65°F, +70°F, and +200°F with one cycle completed over the range in approximately 7.5 minutes, Random Vibration (50-2000 Hz) for 60 minutes along each axes for each temperature

ENVELOPE & DIMENSIONS