

**PRODUCT FAMILY**

**RAPID DEFLAGRATING CORD (RDC)**

Rapid Deflagrating Cord (RDC) transfer line is a linearized metal sheathed propagation cord that uses a high temperature thermally stable energetic material to provide energy to provide signal transmission, heat / ballistic pressure for ignition and / or actuation. The energetic material has an extremely high deflagration (burn rate) that does not transition to a detonation. Additional protection to the outer metal sheath can be incorporated with the use of plastic extrusions or braided textiles / stainless steel wire.



**APPLICABLE SPECIFICATIONS**

Caloric Output:	700 Calories per gram minimum
Burn Rate:	Generates a flame pattern of 5-8 inches using a nominal 6 grains/foot lead sheath Typical deflagration rate in low coreloads (2-6 grains/foot) is 8000 in/sec and will be 12,000 in/sec for coreloads in the 10 grains/foot or higher
Operating Temperature:	-320 °F to +700 °F
Thermal Stability:	+650° F for 24 hours (depending on sheath material)
RDC Ignition Methods:	Initiated at either end by: an electrical pyrotechnic initiator a military grade percussion primer a blasting cap another length of RDC
Available Sheath Material:	Lead Tin (Patented) Aluminum Silver

ENVELOPE & DIMENSIONS

