



DEFENSE

DEFLAGRATING TRANSFER LINES

Pyroalliance designs and manufactures several types of pyrotechnic Deflagrating Transfer Lines with various diameters, sizes, shape connections or cladding.

The Deflagrating Transfer Line is mainly used to transmit a signal and activate a terminal function (typically a pyro-mechanism for the deployment of fins or rudders).

More generally, Pyroalliance delivers complete pyrotechnic chains adapted to its customers' needs. They are designed and manufactured under Pyroalliance design authority.

DEFLAGRATING TRANSFER LINE

Operating mode

The line is initiated by the pressure and the temperature of an external pyrotechnic initiator integrated in a housing or a manifold.

When initiated, the deflagration goes through the cord at an extremely high speed (typically several thousand meters per second) and finally initiates the pyrotechnic end relay of the line.

This end relay allows then to transmit the pyrotechnic order to the next component of the pyrotechnic chain.

The Deflagrating Transfer Line is a lead free product and can be clad with fiberglass or Kevlar in order to guaranty the tightness of the line while preserving its flexibility.

Benefits

- Flexible and adjustable length for an easy integration
- No leak or external effect
- Mechanical system integrity guaranty
- Small Size and Weight
- High reliability level (100% X-Ray control)
- Lead free

Applications

- Pyrotechnic order transmission for different kinds of missile actuators

Typical performances and features

Size	Length from several centimeters up to several meters Line diameter between 6 and 14 mm M8-M13 mechanical connection standard adaptable according to the interface geometry
Mass	Range of 30g/m
End Relay composition	Molybdenum, Perchlorate
Ignition system	Pyrotechnic Initiator
Reliability	≥ 0,9999 @90% CL
Temperature	Adapted to typical airborne military climatic environment
Electrostatic Voltage	25kV
Capacitor	500pF
Discharge resistor	500Ω and 5000Ω
Life time	Adapted to the mission and life profile
Standard	STANAG 4370 S-CAT n°17500

Classification

- UN Number: 0384
- Transport classification: 1.4 S with specific packaging
- Not subject to any ITAR constraint

For more information

Contact us: customer-info@pyroalliance.com

Les Mureaux Plant - Headquarters

139, Route de Verneuil - BP 2052
78132 Les Mureaux cedex – France
Tel. +33 (0)1 34 92 44 44

www.pyroalliance.com

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