



SPACE

BENDABLE LINEAR SHAPED CHARGE (BLSC)

Pyroalliance offers a wide range of RDX/copper BLSC tailored to the Space market.

Those REACH compliant cords are used to cut off all types of materials: metallic (steel, slight alloy, titanium, etc.) as well as laminates of glass, carbon or Kevlar. In particular, they deliver very precise and very fast cuts in severe environmental conditions.

These BLSCs, combined with other Pyroalliance's products, are part of Separation or Flight Termination pyro-chains.

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

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Operating mode

The BLSC produces upon detonation a high velocity metal jet which can sever targets of any material. Our technology allows a highly reproducible jet penetration using a minimum of explosive. These products meet aerospace requirements and remain functional under harsh environments.

Benefits

- Tight geometric tolerance
- Light weight
- REACH-compliant (sustainable materials)
- X-ray inspection ability
- Bending radius down to 5 times its section
- Cost efficient

Applications

- Inter-stage separation
- Booster sinking
- Tank passivation
- Flight Termination

Typical performances and features*

Estimated Cutting performances** : Up to 22 mm in steel and 35 mm in carbon composite

Main dimensions**:
6 to 28 mm Width
0.6m to 2m Length

Detonation velocity: > 7700 m/s

Linear charge (RDX): 25-380g/m (depending on cord type)

Operating temperature: Down to -80°C
Up to + 100°C

**Some variations are under development and qualification*

*** Please contact us for customized needs*



Pyroalliance's BLSC equip Ariane 6 – ArianeGroup

Product Classification

- Number UN: UN0288
- Storage class: 1.1D
- Not restricted by ITAR regulations

For more information

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