



Umbilical Connectors

Applications

Missiles, decoys, rockets

Description

Many military applications require custom-built or specially modified connectors. Sophisticated test and manufacturing equipment places the Special product High Technology Products unit in a unique position to satisfy such customer requirements.

8916 Umbilical connectors for air-to-air missiles



This umbilical cord assures continuity of electrical and pneumatic lines between aircraft and launching rail and missile equipment compartment.

Are integrated in cord

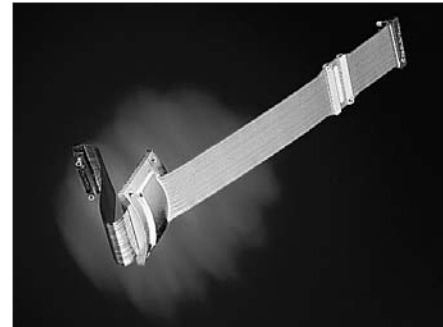
- a 400 bar pressurized nitrogen line
- data and firing signals.

8910 Rack and panel connector



Connector with guides mounted on a fully floating system. Many different insert layouts are available in circular or rectangular shells.

8968 Umbilical connector for decoys, surface-to-air and anti-tank missiles



Ultra low profile umbilical interconnection using flex circuit technology. This umbilical harness features signal and power lines, shielding effectiveness and positive electrical indication of separation.

8956 Umbilical connectors for surface-to-air missiles and decoys



This connector features shear-off contacts which are broken by the missile strong acceleration at firing.

8948 Umbilical connectors for anti-tank missiles



Electrical interface between firing post and missile.
12 contacts composite housing.

8957 Umbilical connectors for anti-tank missiles



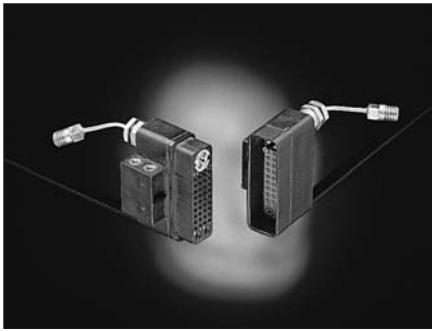
For electrical interface between the firing post and missile. 20 electrical contacts with effective sealing of the two connectors when immersed, in both mated and unmated conditions.



Umbilical Connectors

8916

Umbilical connectors for Fiber Optic Guided and anti-tank missiles



Electrical and pneumatic interface between missile and canister. High density umbilical connector integrating :

- a 400 bar pressurized nitrogen line
- 38 electrical contacts for data and firing signals.

8916

Umbilical connectors for Fiber Optic Guided and anti-tank missiles



Electrical and pneumatic interface between canister and firing post or between missile and canister. Connector with guiding pins and a fully floating system for 3 axis misalignment requirements. This connector features a locking mechanism and uses standard insert according to MIL-C 38999.

8927

Tanks and bomb drop connector



Single contact connector for release of containers, bombs, cans from all types of multi-mission military aircraft.

8961

Inertia connector



Circuits are opened through the high acceleration of the missile. Uses standard insulators to MIL-C 38999.

8963

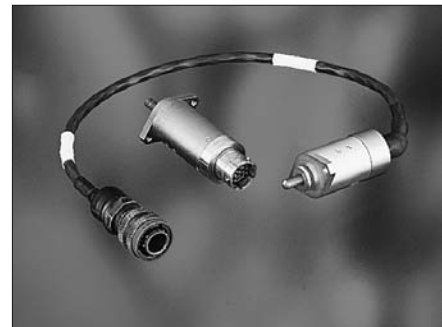
Missile safety and arming connector



Missile armed by the push-on shunting cap. Nuclear hardened for E.M.P. protection when in mated or in unmated, safety position.

8947

High reliability mechanical switch



Modifies the electrical diagram while the pushing rod is actuated by displacement of a mechanical part inside the missile, or between canister and missile. Electrical connection by pigtail wires or connector.



Umbilical Connectors

8955 Umbilical connectors for anti-ship missiles



Loading and ejection with missile.

8917 Umbilical and interstage connectors



Dead-face receptacle
Lanyard release plug with low disconnection force applicable from 0° to 180° angle

Typical applications are :

- axial (interstage separation)
- radial umbilical
- bottom umbilical
- for rockets, strap-on boosters and interstage.

8910 Push-pull umbilical and interstage connectors



Push-pull connectors.
Dead-face receptacle.
De-rackable and lanyard release plug.
Low mating and dismating forces.
Layouts according to MIL-C 38999, shell size 25.
Typical applications are interstage separation and bottom umbilical for rockets and missiles.