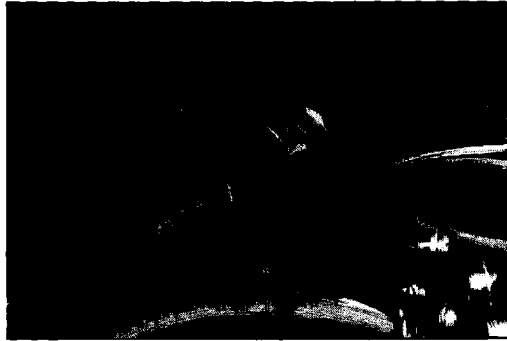


Umbilical connectors are especially designed and produced for launchers, missiles and systems used in extreme environments requiring the highest reliability and performance. Backed by many years experience in design, application and technical support, the connectors offer the highest level of quality and meet the specifications defined in the quality assurance regulation RAQ1 equivalent to the NATO AQAP1 standard.

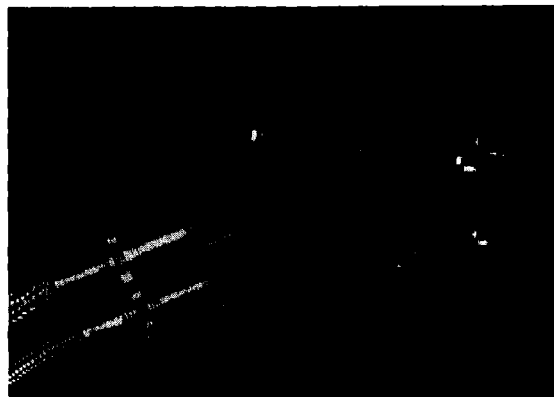
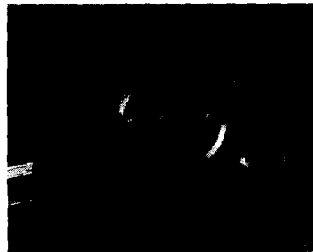
### **Space Connector 8931**

A breakaway harness serving both as an umbilical connection and a safety device for an instrument pointing system (IPS) developed by Dornier as part of the space lab program. It has 549 contacts and is mechanically disconnected after firing of a pyrotechnic cartridge.



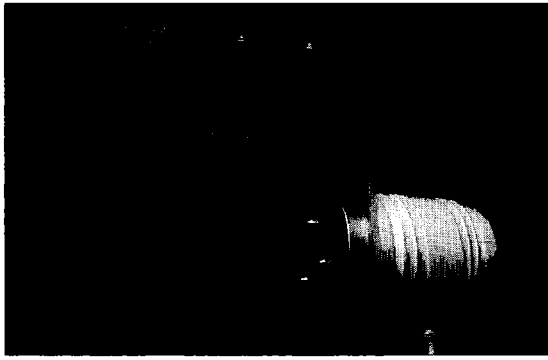
### **Heavy Launcher Connector 8900**

A "last minute" connector released by pull-out slings as the launcher lifts off. The 8900 features a dead-face system on the launcher end and a free "ground" end with a double redundant release system. Air conditioning pipes for equipment cooling or de-icing systems are integral within the connector. This connector is used on the Ariane Eurolauncher.



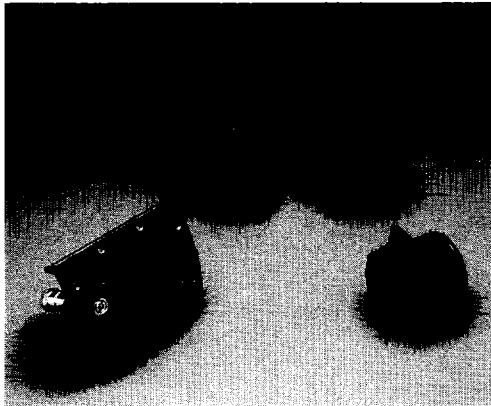
## Anti-Ship Missile Connector 8955

Umbilical connection consisting of a fixed housing machined to the radius of the missile for minimum air turbulence in flight and a free plug which is mated on container loading. The missile connector has a nuclear hardened dead-face system providing total protection against EMP effects.



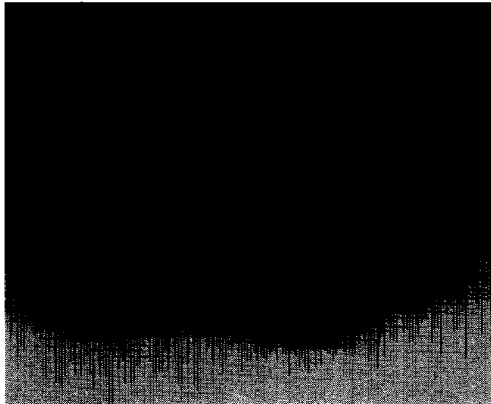
## Air-to-Air Missile Connector 8916

An umbilical connector that provides the electrical and pneumatic services required between the aircraft/launcher and the heat-seeking missile, including firing lines, 1553B Data Bus and a 400-bar pressurized nitrogen pipe.



## Anti-Tank Missile Connector 8957

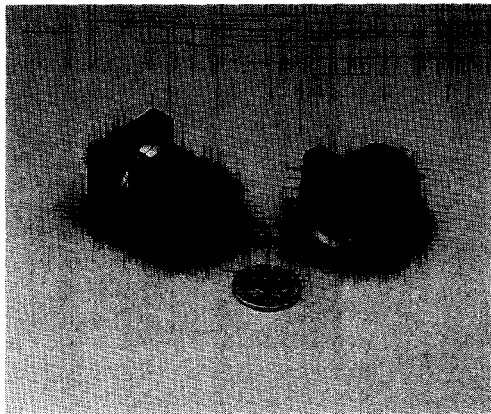
A push together connector which is mated when the missile is loaded into its launch condition. The 20 contacts are fully immersion sealed when mated or unmated.



# UMBILICAL CONNECTORS

## **Ground-to-Air Missile Connector 8948**

A 12 contact missile umbilical connector similar to 8957 used on anti-aircraft missiles fired from a ground tripod, an armoured vehicle or an infantryman's shoulder.



## **Adaptor**

Used with an umbilical connector, the adaptor carries electrical signal lines and a nitrogen line branching off to supply electronic counter-measure equipment.



## Custom Made Connectors

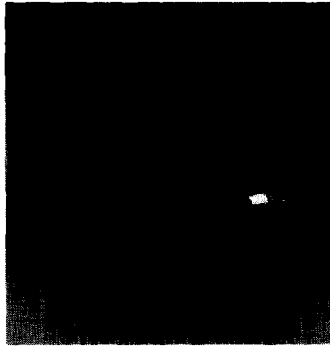
Many military applications require custom-built or specially modified connectors. Through sophisticated test and manufacturing equipment, such customer requirements can be readily satisfied. For example:

- Umbilical connector with shear contacts 8956 for anti-missile missiles, decoys and high acceleration rockets.
- Rack and panel connector 8910 with guides mounted on a fully floating system. Many different insert layouts are available in circular or rectangular format.
- Inertia connector 8961 circuits are opened through the high acceleration of the missile. Uses standard insulators to MIL-C-38999.
- Bomb-bay connector 8927 is a single contact connector for release of containers, bombs, cans, etc. from all types of multi-mission military aircraft.
- Missile safety and arming connector 8963 employs push-on shunting cap and is nuclear hardened for EMP protection when in mated or unmated safety position.

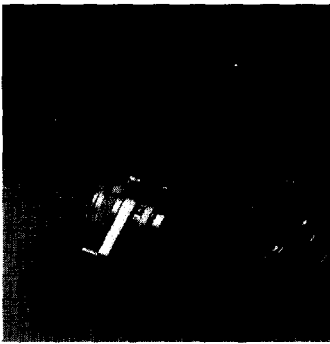
**8956**  
**Umbilical Connector**  
**with Shear Contacts**



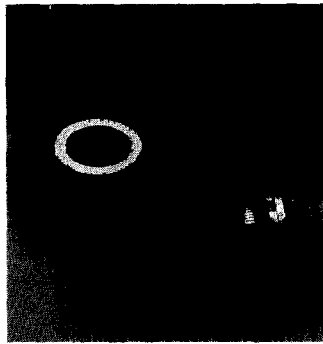
**8927**  
**Bomb Bay Connector**



**8910**  
**Rack and Panel Connector**



**8963**  
**Missile Safety and Arming Connector**



**8961**  
**Inertia Connector**

