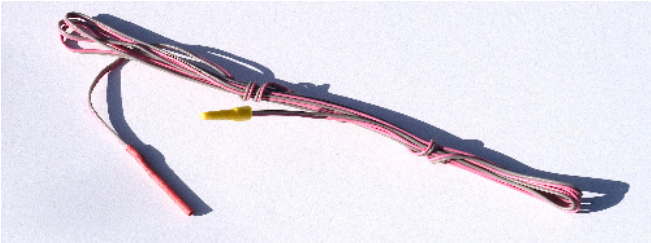
Technical Data Sheet

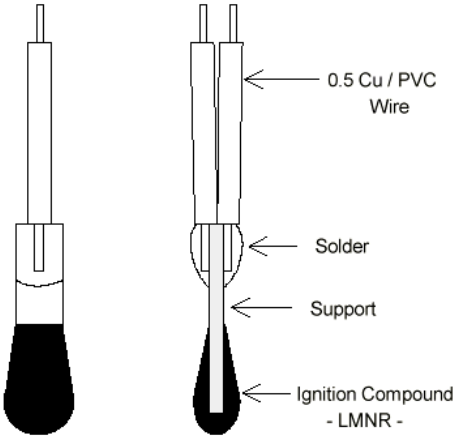
The Power of Partnership

Electric Fuseheads



Description

Electric fuseheads are the primary ignition source used in electric detonators. Electric fuseheads comprise a fusible resistance wire attached to conductive strips on an insulating support. The resistance wire is surrounded by an ignition compound and lead wires are soldered to the free end of the conductive strips.



Safety

Electric Fuseheads contain sensitive components and must be handled with care and respect at all times. Firing Fuseheads can result in noise and particle ejection. Suitable eye and ear protection should be worn when using.

Application

Fuseheads, combined with a Blasting Rheostat, provide an effective method of testing generator-type and battery powered capacitor-discharge exploders.

Technical Properties

Fusehead Resistance	0.75 – 1.05 Ohm	
Lead wire length	1.0m	
Maximum no fire current	0.3 Amp	
Minimum all fire current	0.55 Amp	
Functioning time	1.8ms @ 2A	0.85ms @ 5A
Maximum No Fire Energy	1.5 mJ /Ohm	1.8 mJ/Ohm
Minimum All Fire Energy	3.5 mJ/Ohm	4.1 mJ/Ohm

Recommendations For Use

Fuseheads are best used with a Blasting Rheostat to test generator-type, and some battery powered, capacitor-discharge exploders. With generator-type exploders, two electric fuseheads should be coupled up in series to the rheostat. The rheostat terminals selected must correspond to the number of detonators for which the exploder is rated. With battery powered exploders, the number of fuseheads in series should be increased to at least size and preferably ten (see Fig 2).

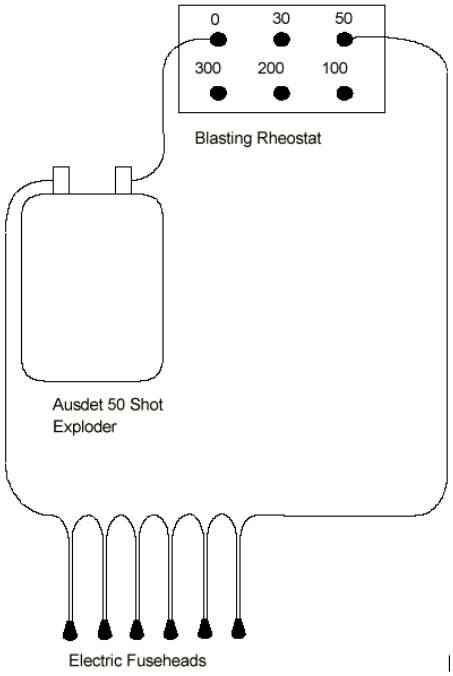


Figure 2 Testing Ausdet 50 shot Exploder with Electric Fuseheads and a Blasting Rheostat.

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Electric Fuseheads

Storage

They should be stored in a container where the effect of initiation will be confined to the container with no fragments being projected, or fire hazard created.

Explosives Classification

Authorised Name:	ELECTRIC FUSE
Shipping Name:	IGNITERS
UN No.:	0454
Class:	1.4s

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