Technical Data Sheet

Electric Seismic™

Electric Detonator Assembly

The Power of Partnership

Description

Electric Seismic™ detonator assemblies are high strength detonators designed specifically for geophysical exploration. They can be used for both single shot and pattern firing applications.

Key Benefits

- Fire within the sampling rate of most seismic acquisition systems
- Ensures initiation reliability with detonator sensitive explosives
- Assure reliable performance in high hydrostatic conditions
- Assure superior performance in the toughest of environments
- Reduce the risk of accidental detonation caused by static electricity

Technical Properties

Nominal Legwire Length (approx.)		Nominal Resistance (Ohms)	Wire Configuration
Feet	Meters		
12	3.6	1.2	K
24	7	1.4	K
35	10	1.65	K
45	13	1.85	K
55	16	2.05	K
65	19	2.25	K
75	22	2.50	K
85	25	2.7	K

K Figure “8” coil
12’, 3.6m assemblies are # 21 AWG single yellow colored copper wire. All other lengths are # 20 AWG yellow colored duplex copper wire. Additional lengths may be made available on request.

Packaging

Electric Seismic™ detonators are packed in 10 shipping cases per shipping tray. Case dimensions are 26½ x 16 x 10 cm, (10⅜ x 6¼ x 3⅞ in).

Nominal Length Meters / Ft	Quantity per Case	Quantity per Tray
3.6 / 12	25	250
7 / 24	15	150
10 / 35	10	100
13 / 45	8	80
16 / 55	7	70
19 / 65	6	60
22 / 75	5	50
25 / 85	4	40

Recommendations for Use

When used in a single series hook-up in single-shot firing or pattern shooting, limit the number of **Electric Seismic™** detonators in the series to 25 and use a capacitor discharge blasting machine that will deliver a firing current greater than 10 amps RMS to the circuit for optimum performance. Keep electric detonator wires, the blasting circuit and lead wires shunted unless testing field resistance, connecting or ready to fire. Always twist-shunt electric detonator legwires after the factory shunt is removed. Never handle or use electric detonators when stray current or static electricity is present or during lightning storms.

- Maximum Water Pressure in use is 250 psi
- Tensile strength is 25 lbs. (111 N)

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Radio Frequency Hazard Alert

When blasting with electric detonators, ***no personal communication equipment of any type should be on the blast site regardless of whether it is on or off.*** This includes but is not limited to: portable / hand held radios, radio modems, pagers, mobile and cell phones.

Radio-Frequency (RF) transmitters include but are not limited to: AM and FM radio, television, radar, cellular phones and other devices that are cellular based (i.e., on-board vehicle systems like "On Star"); wireless data acquisition systems, personal data devices such as "Palm Pilots" and "Pocket PCs" with built-in cellular phones or communication systems, Pagers, and Global Positioning Systems (GPS) base stations. Refer to the Institute of Makers of Explosives Safety Library Publication #20 for distance / wattage parameters and guidance when using two-way radios and cell phones near electric detonators.

Special Instructions

The **Electric Seismic™** detonator is not electrically compatible with any other electric detonators from Orica or other manufacturers. Wiring this detonator with any other detonators may result in misfires.

Shelf Life

Electric Seismic™ has a shelf life of 5 years from the date of production.

Hazardous Material Shipping Description

Authorized name:	Electric Seismic
Shipping name:	Detonator, Electric
Class Code:	1.4B
UN No.	UN 0255, PGII

Safety

Electric Seismic™ detonators can be initiated by extremes of shock, friction or mechanical impact. As with all explosives **Electric Seismic™** detonators should be handled and stored with care.

Storage

Electric Seismic™ detonators must be stored at moderate temperatures and dry conditions in a well ventilated approved detonator magazine. For recommended good practices in transporting, storing, handling, and using this product, refer to the "Always and Never" booklet packed inside each case.

Trademarks

Disclaimer

For additional information visit our web site at *oricaminingservices.com* under Seismic Exploration

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