

ElectricMS™

Short Delay, Electric Detonator Assembly



Description

ElectricMS™ detonator assemblies provide short-delay electric initiation of blast patterns. *ElectricMS™*, in 26 delay periods, provide flexibility in blast design. They can be used at surface or underground applications, at quarries or at construction projects.

Benefits

- Provide excellent blast control
- Ensures initiation reliability with all detonator sensitive explosives, even at low temperatures
- Assures reliable performance, even where “water hammer” conditions exist
- Protects against accidental detonation caused by static electricity
- Assures superior performance in the toughest of environments

Features

- Accurate, fuse technology delays
- A high strength detonator design
- High pressure resistant detonators
- Built-in anti static features
- Polyolefin legwire insulation that is not adversely affected by low temperatures, water immersion or extended storage at high humidity

Properties

Delay Period	Nominal Firing Time (ms)	Delay Periods	Nominal Firing Time (ms)
0	3	13	325
1	25	14	350
2	50	15	375
3	75	16	400
4	100	17	425
5	125	18	450
6	150	19	475
7	175	20	500
8	200	22	550
9	225	24	600
10	250	26	650
11	275	28	700
12	300	30	750

Some lengths and delays may not be available.

Legwire Color Code

Copper wire single	Turquoise & Yellow
Copper wire duplex	Turquoise

Handling and Initiation

Recommended Firing Current	
Series wiring	A minimum of 1.5 amps DC or 3 amps AC
Parallel wiring	A minimum of 1 amp AC or DC per detonator
Series in parallel wiring	A minimum of 2 amps AC or DC per series
Maximum recommended continuous firing current 10 amps	

ElectricMS™

Short Delay, Electric Detonator Assembly

Special Instructions

The *ElectricMS™* detonator is electrically compatible with *ElectricLP™* and *ElectricCOAL™* detonators. They are not electrically compatible with any other electric detonators from ORICA or other manufacturers. Wiring this detonator with any other detonator may result in misfires.

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.

Packaging

Legwire Length (approx.)		Nominal Resistance (ohms)	Quantity per		Explosives Classification
Ft	M	Copper Wire	Carton	Case	
12	3.5	1.92	25	250	1.4B
16	4.5	2.03	25	250	1.4B
24	7	2.25	25	250	1.4B
30	9	2.40	15	150	1.4B
40	12	2.66	10	100	1.4B
60	18	3.19	8	80	1.4B

Nominal resistance is ± 0.4 ohms.

Other lengths may be available by special arrangement. Contact your local supplier for details.

Storage

For best results, store at moderate temperatures and dry conditions in a well ventilated, approved detonator magazine. Recommended **shelf life** under proper storage conditions is five (5) years from date of manufacture.

Hazardous Materials Shipping Description

Detonator, Electric
Class and Division: 1.4B
UN 0255, PG II

Trademarks

The word Orica, the Ring device and the Orica mark are trademarks of Orica Group Companies. *ElectricMS™*, *ElectricLP™* and *ElectricCOAL™* are trademarks of Orica Explosives Technology Pty Ltd. ACN 075 659 353, 1 Nicholson Street, East Melbourne, VIC, Australia.

Disclaimer

The information contained herein is based on experience and is believed to be accurate and up to date as at the date of its preparation. However, uses and conditions of use are not within the manufacturer's control and users should determine the suitability of such products and methods of use for their purposes. Neither the manufacturer nor the seller makes any warranty of any kind, express or implied, statutory or otherwise, except that the products described herein shall conform to the manufacturer's or seller's specifications. The manufacturer and the seller expressly disclaim all other warranties, INCLUDING, WITHOUT LIMITATION, WARRANTIES CONCERNING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Under no circumstances shall the manufacturer or the seller be liable for indirect, special, consequential, or incidental damages including, without limitation, damages for lost or anticipated profits.

ElectricMS™

Short Delay, Electric Detonator Assembly

Emergency Contact Telephone Numbers

For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents:

Canada: Orica Canada emergency response **1-877-561-3636**

USA: Chemtrec **1-800-424-9300**

For lost, stolen or misplaced explosives:

USA: BAFT **1-800-800-3855**. Form ATF F5400.0 must be completed and local authorities (state / municipal police, etc) must be advised.

Orica Canada Inc.
301 Hotel De Ville
Brownsburg, QC J8G 3B5
Tel: +1 303 268 5000
Fax: +1 303 268 5250

Orica USA Inc.
33101 East Quincy Ave
Watkins, CO 80137
Tel: +1 303 268 5000
Fax: +1 303 268 5250