

ELECTRIC SUPER™ LP

New Series

Technical
Information



Electric Millisecond Delay Detonator



Product Description

ELECTRIC SUPER LP is a high strength, millisecond delay electric detonator featuring 13 delay periods designed to provide precision and accuracy in all delay periods. The ELECTRIC SUPER LP legwires are HDPE insulated, which offers excellent resistance to cuts, abrasion, oil, low temperature and high humidity. Easy-to-read delay tags display the delay number and nominal firing time of each period near the legwire ends.

Field results with the ELECTRIC SUPER LP have shown impressive improvements in both vibration control and fragmentation.

Recommended firing current:

- Series wiring: a minimum of 2 amps AC or 1.5 amps DC
- Parallel wiring: a minimum of 1 amp AC or DC per detonator
- Series-in-parallel wiring: a minimum of 2 amps AC or 1.5 DC per series

The maximum recommended continuous firing current is 10 amps per detonator.

Properties

SDS
#1178

Shell Material	Aluminum
Shell Length (range)	60.9 to 83.8 mm 2.4 to 3.3 in
Maximum Water Pressure	60 PSI 8 hrs
Shelf Life Maximum	5 years (from date of production)
Maximum Usage Temperature	66°C (150°F)
Net Explosive Content	0.10 kg 0.220 lb

Delay Period	Nominal Firing Time (LPec)	Delay Period	Nominal Firing Time (LPec)
0	0	7	3500
1	500	8	4000
2	1000	9	4500
3	1500	10	5000
4	2000	11	5500
5	2500	12	6000
6	3000	13	6500

Hazardous Shipping Description

Detonators, Electric, 1.4B, UN0255 PGII
EX 2010080268—Kirked



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Application Recommendations

- **NEVER** use the ELECTRIC SUPER LP with other types of Dyno Nobel electric detonators or electric detonators from another manufacturer. Wiring different brand electric detonators together in a blast circuit may result in misfires and is in violation of federal regulations. Even though some types of Dyno Nobel electric detonators are electrically compatible, they should never be planned to be used together as a standard blasting practice. Where special circumstances demand a larger number of standard delay periods, always contact a Dyno Nobel representative for specific recommendations before planning the blast design.
- **NEVER** use electric detonators near radio frequency transmitters unless in accordance with IME SLP 20.

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 modeLP, 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 system like “On Star”); wireless data acquisition system; personal data devices such as “Palm Pilots” and “Pocket PCs” with built-in cellular phones or communication system; Pagers; and Global Positioning System (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.

Transportation, Storage and Handling

- ELECTRIC SUPER LP must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.
- For maximum shelf life (5 years), ELECTRIC SUPER LP must be stored in a cool, dry, well ventilated magazine. Explosive inventory should be rotated. Avoid using new materials before the old. For recommended good practices in transporting, storing, handling and using this product, see the booklet “Prevention of Accidents in the Use of Explosive Materials” packed inside each case and the Safety Library

Publications of the Institute of Makers of Explosives.

- The disposable shipping tray is not part of the legal shipping package and is used only to prevent “relative motion” while in transit. If the tray is not used, it is mandatory that all explosives shipments are properly blocked and braced.

Packaging

Length		Case Weight		Wire Configuration	Quantity per		Product Code
m	ft	lb	kg		Case	NEQ (g)	
4.9	16	6.1	2.8	Short Fold	40	40	ECLPxxx016
6.1	20	6.6	3.0	Short Fold	40	40	ECLPxxx020
7.3	24	6.8	3.1	Short Fold	40	40	ECLPxxx024
9.1	30	6.6	3.0	Long Fold	15	15	ECLPxxx030
12.2	40	6.6	3.0	Long Fold	15	15	ECLPxxx040
18.3	60	6.6	3.0	Long Fold	10	10	ECLPxxx060
24.4	80	7.7	3.5	Long Fold	10	10	ECLPxxx080

All ELECTRIC SUPER LP 24' and less, have 22 AWG (0.6 mm) copper wire

All ELECTRIC SUPER LP 30' and more, have 20 AWG (0.8 mm) copper wire

xxxx = delay time in milliseconds

Case Dimensions

286 x 194 x 127 mm 11 ¼ x 7 ⅝ x 5 in

Electrical Data		Electrostatic Sensitivity	
No Fire Current	0.25 amps	Double Wire to Shell	10 kV/300 pF/15 mJ
All Fire Current	1.00 amps	Pin to Pin	10 kV/300 pF/15 mJ
Series Ignition Current	1.50 amps		
No Fire Impulse	2.5 mJ/ohLP		
All Fire Impulse	5.5 mJ/ohLP		

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