

Solar AED

Aluminium Instantaneous Electric Detonator



Description & Application

The Aluminium Instantaneous Electric Detonator is an initiating system of explosives charge that can convert an electric impulse into a detonation.

The Aluminium detonator shell contains a base charge of PETN and Primary Charge of Lead Azide, Lead Styphnate & Aluminium powder.

The Aluminium Instantaneous Electric Detonator is designed to provide instantaneous detonation of explosive or detonating cord in quarries, surface operations, open pit mines and construction projects.

Advantages

- Always use shot source that can provide a current flow greater than 1.2 Amps
- Never handle or use electric detonators in the presence of static or erratic electricity or electric storm.
- Open the shorted ends of lead wire only to verify the continuity and initiate the blasting.
- Never connect Solar AED to other electric detonators with different sensitivity or blasting characteristics.
- Do not use in gassy environments.

Technical Properties

Identification Mark	SIIL mark on plug
Shell Length	42 mm
MOC of Shell	Aluminium
Detonator Strength*	No 8
Type	Instantaneous
Wire Length	as per customer req.
Wire Colour	Pista Green#
Wire Material	GI / Copper
Wire Resistance	0.05-0.07ohms/Mtr (Cu)
	0.5-0.7 ohms / Mtr (GI)
Series Firing Current	1.2 A for 4 ms
All Firing Impulse	2.5 MJ
No Firing Current	0.18 Amp for 5 Mins
Min Single Fire Current	0.8 A for 4 ms
Fusehead Resistance	1.6 to 2.0 ohms
Use Temperature	-20 deg C to 60 deg C
Water Resistance	Excellent
Resistance to Hydraulic Pressure	3 Kgs for 48 Hours
Insensitivity to Impact	2 Kgs drop from a height of 0.4 Mtr
Drop Test	from 5 mtr high
Jolt Test	60 jolts per min from 150 mm height for 30 mins.

Other Lead wire colour can be given on request
No. 8* is available on request.

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Packing

Length	Qty. per Case	Qty. per Bundle	Qty. per Packet	GI Wire (in Kgs)	
				Gross Wt.	Net Wt.
1.5 Mtr.	1500	25	50	16	14
1.8 Mtr.	1500	25	50	18	16
2.0 Mtr.	1000	25	50	14	12
3.0 Mtr	1000	25	25	19	17

Length	Qty. per Case	Qty. per Bundle	Qty. per Packet	Copper Wire (in Kgs)	
				Gross Wt.	Net Wt.
1.5 Mtr.	1000	25	50	14.5	12.5
1.8 Mtr.	1000	25	50	17	15
2.0 Mtr.	1000	25	50	18	16
3.0 Mtr	750	25	25	19	17

Storage

For the best results, store under moderate temperatures and dry conditions in a wellventilated, approved magazine.

Shelf Life

If stored in cool, dry, well ventilated magazine and handled properly, the maximum shelf life of Solar AED is 3 years from the date of manufacture.

Shipping Information :

Authorised Name of Explosive : SOLAR ALUMINIUM INSTANTANEOUS ELECTRIC DETONATOR
 Proper Shipping Name : DETONATORS, ELECTRIC for Blasting
 Class / Div. : 1.1B
 UN No. : 0030

Disposal

The disposal of explosives material is dangerous and require special training. Methods used for safe disposal may vary from case to case and will depend upon conditions under which the operations take place. For further information please contact Solar representative in your area.

Disclaimer

Use of these products by anyone who lacks adequate training, experience & supervision may kill or injure. It is expressly understood that any technical advice furnished by SILL with reference to the use of its Products is given gratis & SILL assumes no obligation or liability for the advice given or results obtained, & all such advice being given is accepted at Customer's risk.

SILL makes no warranty of any kind, written or oral, express or implied, except that the Products shall meet SILL's standard specifications for such Products. Customer shall assume all risk and liability for results obtained by the use of such Products whether used singly or in combination with other products. Under no circumstances shall SILL or any of its subsidiaries be liable for special, consequential or incidental damages or for anticipated loss of profits.

Any dispute arising out of above information shall be dealt in accordance with the laws of Republic of India and subject to jurisdiction of Courts at Nagpur, India.

*Images are just for reference and can be changed without any intimations.

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