

PRODUCT INFORMATION BROCHURE

TIMESTAR 500 long period electric delay detonators provide sufficient time for rock movement necessary for successful blasting of tunnels, shafts, trenches, sewers, drifts and raises. Offered in 12 delays, they are consistently accurate to prevent overlap, assure better fragmentation and reduce vibration.



BENEFITS

- High initiation strength 720 mg
 base charge ensures reliable initiation of all cap sensitive explosives.
- Strong shell reduces the possibility of water hammer effect.
- Antistatic insulation for added protection from stray currents.
- Wide selection of delay intervals provides greater flexibility in blast design.
- High impact protection.

PROPERTIES

Delay sequence

Delay #	1	2	3	4	5	6
Nominal delay (ms)	500	1,000	1,500	2,000	2,500	3,000
Delay #	7	8	9	10	11	12
Nominal delay (ms)	3,500	4,000	4,500	5,000	5,500	6,000

FIRING PARAMETERS

Туре	Group I	Group II	Group III	Group IV
Fusehead resistance	1.50 - 1.90 Ω	0.52 – 0.60 Ω	0.16 – 0.20 Ω	0.032 – 0.040 Ω
No fire current	0.18 A	0.45 A	1.2 A	4 A
No fire energy	0.8 mJ/Ω	8 mJ/Ω	80 mJ/Ω	1,100 mJ/Ω
All fire current	1 A	1.5 A	3.5 A	25 A
All fire energy in series	2.5 mJ/Ω	16 mJ/Ω	140 mJ/Ω	2,500 mJ/Ω

In case of use of electric detonators in applications with a risk of initiation from stray currents, the appropriate detonator sensitivity must be chosen.







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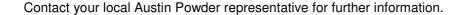
STANDARD TECHNICAL DESCRIPTION

Detonator standard shell material	Aluminum	
Base charge	720 mg	
Water pressure resistance	0.3 MPa / 24 hours	
Temperature range for application	-30 °C < T < +60 °C	
Shelf life (storage conditions)	2 years (-30 °C to 40 °C)	
Label marking	Delay #, Detonator type, Delay ms, Wire length, Data matrix code (traceability)	
Notified body	CE 0589	
Alternative names	DEP-N, DEP-S, DEP-V, DEP-U, DEP-HU	

STANDARD PACKAGING DETAILS

Wire length (m)	Packaging 1	.4B UN 0255	Packaging 1.4S UN 0456		
	Cu ø 0,5 mm	Cu ø 0,6 mm Fe ø 0,65 mm	Cu ø 0,5 mm	Cu ø 0,6 mm Fe ø 0,65 mm	
2/3	500		175		
4	400	350	150		
5	300		150		

TIMESTAR 500 detonators are packaged in cardboard carton of outer dimension 425x305x250 mm. Other wire lengths are possible on demand.



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