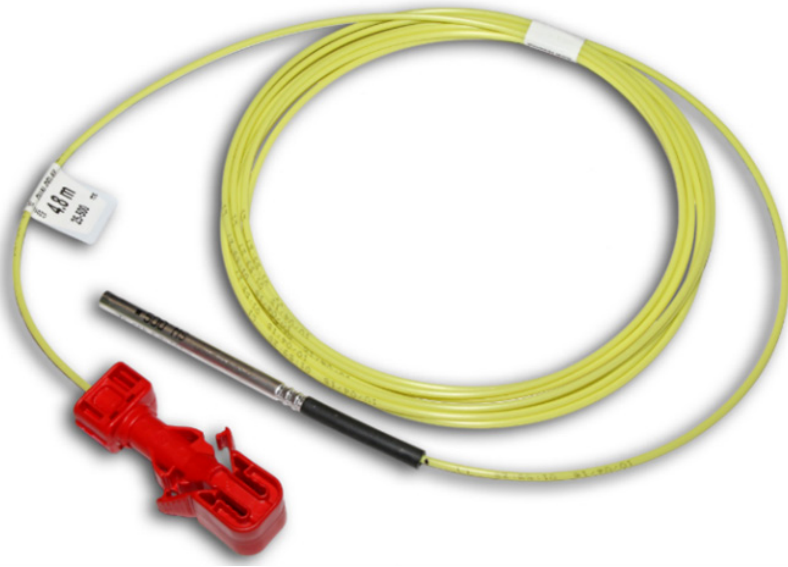




PRODUCT INFORMATION

BROCHURE

SHOCK★STAR DUAL DELAY



Shock★Star Dual Delay detonators for surface application combine in-hole Shock★Star MS detonator (delays 475 or 500 ms) and Shock★Star Surface (25 ms delay). This combination offers convenience for storage and inventory management of one product instead of two and often reduces space requirements for transportation.


Connecting of blast patterns is faster with Shock★Star Dual Delays as fewer connections are required in total. As fewer individual products are used in the blast pattern the clutter at connection points is reduced and visual inspections are easier.

BENEFITS

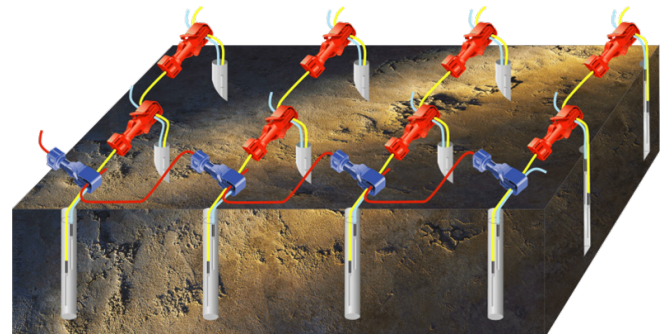
- 720 mg/120 mg base charge.
- Manufactured with bright yellow Shock Tube for high visibility.
- Surface connector has 8 Shock Tubes capacity and it is color coded to surface delay time.
- High impact protection.

PRODUCT OVERVIEW

DELAY SEQUENCE

Shock★Star Dual Delay		
	Shock★Star Surface	Shock★Star MS
Nominal delay times (ms)	 25	475, 500

Other timing combinations are possible on demand.



STANDARD TECHNICAL DESCRIPTION

Detonator	
Detonator shell material	Aluminum
Base charge	720 mg / 120 mg
Water pressure resistance	0.3 MPa / 7 days
Temperature range for application	from -30 °C to +60 °C
Shelf life (storage conditions)	2 years (-30 °C to +40 °C, R.H. max. 65%) in original, sealed package
Label marking	Delay #, Detonator type, Delay ms, ST length, Data matrix code (traceability)
Notified body	CE 0589
Shock Tube	
Velocity of detonation	2,000 ± 100 m/s
Color	Yellow

STANDARD PACKAGING DETAILS

Shock Tube length (m)	Packaging 1.1B UN 0360			Packaging 1.4S UN 0500		
	Units / Bag	No. of Bags	Units / Box	Units / Bag	No. of Bags	Units / Box
6	10	8	80	10	5	50
9	10	6	60	10	4	40
12	5	9	45	10	4	40
15	5	7	35	5	6	30
18	5	6	30	5	5	25
21	5	5	25	5	5	25
24	5	5	25	5	4	20
27	5	5	25	4	4	16
30	5	5	25	4	4	16

Shock★Star Dual Delay detonators are packaged in cardboard carton of outer dimension 390x235x295 mm. Other lengths of Shock Tube and delay combinations are possible on demand.

Contact your local Austin Powder representative for further information.

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