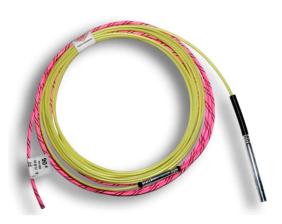
Shock★Star PF

PRODUCT INFORMATION BROCHURE

Shock*Star PF non-electric detonators are designed especially for tunnel applications where plastic remains have to be eliminated from the muck pile. This product could be also beneficial for underground mines remains where plastic negatively influence the material processing. It consists of Shock*Star TS (including Shock Tube) and low energy detonating cord.



BENEFITS

- Significant reduction of plastic remains in the muck pile.
- The same handling as with standard non-electric detonators.
- Fast blast preparation.
- Whole range of Shock*Star TS delays is available (25 9,000 ms).

PROPERTIES

- Whole product (Shock*Star TS, Shock Tube and detonating cord) is delivered in one piece, already assembled.
- Manufactured with bright yellow Shock Tube for high visibility.

INITIATION

Shock*Star PF must be initiated by 5 or 6 g/m detonating cord (overspun detonating cord is recommended).

DELAY SEQUENCE

Delay#	0	1	11/2	2	21/2	3	31/2	4
Nominal delay (ms)	25	100	150	200	250	300	350	400
Delay#	41/2	5	5 ^{1/2}	6	61/2	7	71/2	8
Nominal delay (ms)	450	500	550	600	650	700	750	800
Delay#	81/2	9	91/2	10	11	12	14	16
Nominal delay (ms)	850	900	950	1,000	1,100	1,200	1,400	1,600
Delay#	18	20	25	30	35	40	45	50
Nominal delay (ms)	1,800	2,000	2,500	3,000	3,500	4,000	4,500	5,000
Delay#	55	60	65	70	75	80	85	90
Nominal delay (ms)	5,500	6,000	6,500	7,000	7,500	8,000	8,500	9,000





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STANDARD TECHNICAL DESCRIPTION

Detonator			
Detonator shell material	Aluminum		
Base charge	720 mg		
Water pressure resistance	0.005 MPa / 7 days		
Temperature range for application	from -30 °C to +60 °C		
Shelf life (storage conditions)	2 years (-30 °C to +40 °C) in original, sealed package		
Label marking	Delay #, Detonator type, Delay ms, ST length, DC length, Data matrix code (traceability)		
Notified body	CE 0589		
Shock Tube			
Velocity of detonation	2,000 ± 100 m/s		
Color	Yellow		
Detonating Cord			
Explosive charge	3.2 g/m		
Color	Pink		



WARNING

Shock*Star PF may adversely affect the performance of some explosives. Consult Austin Technical Representative for compatibility recommendations before attempting to use.

STANDARD PACKAGING DETAILS

Shock Tube length (m)	Detonating cord length (m)	Packaging 1.1B UN 0360					
		Units / Inner box	No. of Inner boxes	Units / Box			
3.6	2.4	20	4	80			
4.8	2.4	20	4	80			
4.8	3.0	20	4	80			

Shock*Star PF detonators are packaged in cardboard carton of outer dimension 390x235x295 mm.

Other lenghts of Shock Tube and detonating cord are possible on demand.

Contact your local Austin Powder representative for further information.

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