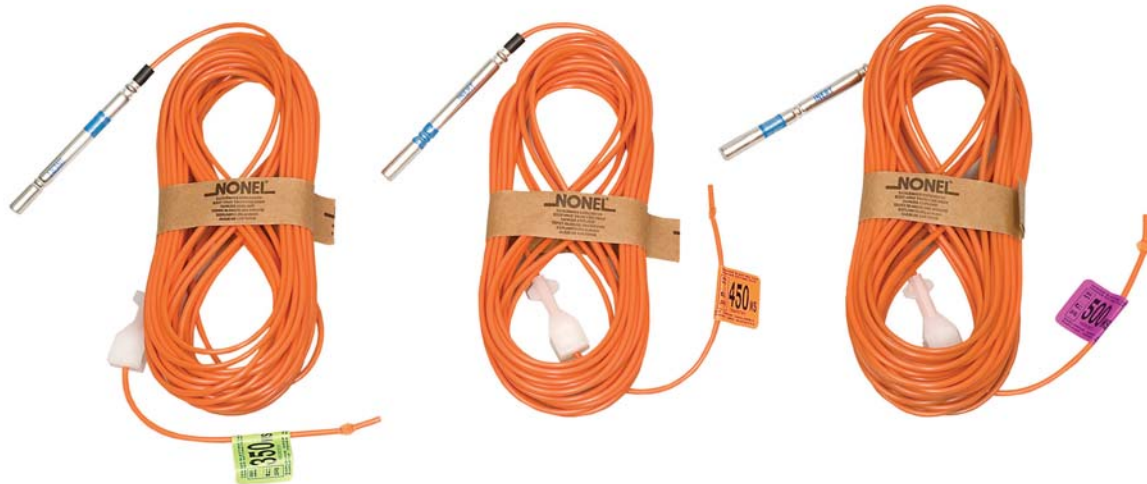


NONEL[®] MS

Nonelectric Millisecond Delay Detonator



Product Description

Nonelectric Millisecond Delay Detonator NONEL MS unit consists of a length of orange shock tube with a High Strength detonator attached to one end and the other end sealed. A white J-hook is affixed near the sealed end, providing easy means of connection to detonating cord. Easy-to-read, color-coded delay tags display the delay number and nominal firing time prominently.

NONEL MS is designed to provide in-hole time for underground (non-coal) and surface blast applications in the mining, quarry and construction industries and can be used in combination with a detonating cord trunkline, NONEL EZTL, NONEL EZDET and/or NONEL TD detonators for maximum timing flexibility



Technical Information

Properties

Net Explosive Content per 100 units
(Excluding Shock Tube) 0.0570 kg
0.1254 lbs

Net Explosive Content per 100,000 m shock tube
0.1043kg
0.2299 lbs

Hazardous Shipping Description
Detonator assemblies nonelectric,
1.4B, UN 0361 PG II
1.1B, UN 0360 PG II



Period / Delay Time (msec)	Delay Tag Color	Period / Delay Time (msec)	Connector Block Color
1 / 25	Red	9 / 250	Red
2 / 50	Tan	9½ / 275	White
3 / 75	Green	10 / 300	Tan
4 / 100	Blue	10½ / 325	White
5 / 125	Orange	11 / 350	Green
6 / 150	Purple	11½ / 375	White
7 / 175	Gray	12 / 400	Blue
8 / 200	Lt Blue	13 / 450	Orange
8½ / 225	White	14 / 500	Purple

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See Product Disclaimer on next page.



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Application Recommendations

ALWAYS use the plastic J-hook when using a detonating cord trunkline to initiate a NONEL MS unit. A minimum 3 g/m (15 gr/ft) detonating cord qualified for surface use is required for use with the J-hook.

ALWAYS make sure the shock tube is connected to the J-hook and leads back to the hole collar at right angles to the detonating cord trunkline.

Transportation, Storage and Handling

NONEL MS must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.

For maximum shelf life (2 years), NONEL MS 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.



Technical Information

Packaging

Length		Case Type		Coil Type	Quantity/ Case	
m	ft	1.4B	1.1B		1.4B	1.1B
1.2	4	S	L	Detpak	90	300
2.4	8	S	L	Detpak	90	300
3.6	12	S	L	Detpak	80	200
4.2	14	S	L	Detpak	80	200
4.9	16	S	L	Detpak	80	200
6.0	20	S	L	Detpak	60	180
7.2	24	S	L	Detpak	50	150
9.0	30	S	L	Detpak	50	150
10	34	S	L	Detpak	30	120
12	40	S	L	Detpak	30	120
15	50	S	L	Detpak	30	100
18	60	S	L	Detpak	25	100
21	70	L	L	Detpak	100	100
24	80	L	L	Detpak	90	90
30	100	L	L	Lariat	75	75
36	120	L	L	Lariat	75	75

- Length rounded to nearest one-half meter.
- Case weight varies by length & delay; see case label for exact weight.

Case Dimensions

S - 460 x 230 x 255 mm

L - 640 x 320 x 430 mm

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TENAGA KIMIA SDN BHD (26191-A)

No. 8, Jalan SS 22/21, Damansara Jaya, 47400 Petaling Jaya, Selangor Darul Ehsan, Malaysia.

OR P.O. Box 11674, 50754 Kuala Lumpur. Tel: 03-7729 7464 Fax: 03-7729 8383

Email: tkb@tenagakimia.com Website: www.tenagakimia.com