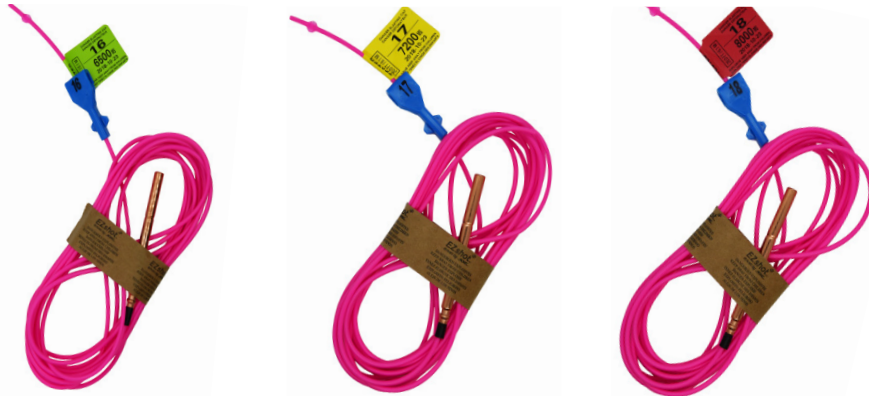


### Electronic Initiation System MS Series



#### Product Description

EZshot<sup>®</sup> is the newest addition to Dyno Nobel's electronic initiation system portfolio. This exciting technology offers users the benefits of electronic precision and accuracy with the ease of use of NONEL shock tube in a unique initiation system. The EZshot MS detonator series is a high strength detonator in a heavy walled copper shell integrated with a pink heavy duty shock tube.

Each EZshot MS's are designed to provide in-hole time for surface blast applications in the mining, quarry and construction industries. They offer practical benefits by replacing pyrotechnic delays with the highest advancement of delay scatter and precision loss with electronics precision and accuracy.

#### Application Recommendations

For detailed application recommendations, ALWAYS request a copy of Dyno Nobel's *Product Manual* from your Dyno Nobel representative

- **ALWAYS** use the plastic J-Hook when using a detonating cord trunkline to tie-in EZshot MS electronic delay detonators. A minimum 3 g/m (18 gr/ft) detonating cord trunk line is required for use with J-Hook

### Properties

SDS  
####

<b>Detonator Shell</b>	Copper
<b>MS Shock Tube Colors</b>	Pink—Heavy Duty Tube
<b>System Operating Temperature (range)</b>	-20° to +65°C / -4° to +149°F
<b>Detonator Strength</b>	#12
<b>Net Explosive Quantity (per 100 units)</b>	0.0885 kg / 0.1951 lbs

Delay Time ms	Product Code*	Delay Tag Color
1000	YMP01000xfff	Light Blue
1025	YMP01025xfff	Red
1050	YMP01050xfff	Green
1075	YMP01075xfff	Yellow
2000	YMP02000xfff	White
5000	YMP05000xfff	Orange

\*Product Code:

x classification: 1 = 1.1B  
4 = 1.4B  
fff = product length in ft

#### Hazardous Shipping Description

Detonator assemblies, nonelectric, 1.1B, UN 0360  
Detonator assemblies, nonelectric, 1.4B, UN 0361





### Application Recommendations (continued)

- **ALWAYS** ensure the shock tube is connected at right angles to the detonating cord trunkline and that the shock tube leads returning to the hole collar do not cross over or lay near any detonating cord trunkline. If the detonating cord touches the shock tube or is closer than 6 in (15 cm), the shock tube may be damaged and misfires may result
- **ALWAYS** connect detonating cord using approved knots and tight connections. Place detonating cord hook-ups in closed loops and use with cross-ties

### Customer Benefits

- **Electronic precision and accuracy** is particularly beneficial in blast holes helping to significantly reducing over-break improve cast and reduce vibration. This leads to reduced haul costs, which can significantly reduce costs
- **Easy to use** system because the hook-up is EXACTLY the same as NONEL MS detonators
- **Virtually no training** needed since the product is connected just as NONEL. Current NONEL users can seamlessly begin using EZshot detonator systems. This system allows for electronics to be placed where the timing is the most beneficial

### Transportation, Storage and Handling

- EZshot must be transported, stored, handled and used in conformity with all federal, state, provincial and local laws and regulations.
- For maximum shelf life (**1 year**), EZshot 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.

### Packaging

Product Code*	Length		Package Type	Shipping Class	Coil Configuration	Quantity / Case
	m	ft				
YMPxxxx1020	6.1	20	D	1.1B	DetPak	180
YMPxxxx1030	9.1	30	DC	1.1B	DetPak	150
YMPxxxx1050	15.2	50	DC	1.1B	DetPak	90
YMPxxxx1060	18.3	60	DC	1.1B	DetPak	90
YMPxxxx1080	24.4	80	DC	1.1B	Figure 96	40
YMPxxxx1100	30.5	100	DC	1.1B	Figure 96	40
YMPxxxx1120	36.6	120	DC	1.1B	Figure 96	30
YMPxxxx4030	9.1	30	MA	1.4B	DetPak	30
YMPxxxx4050	15.2	50	MA	1.4B	DetPak	60
YMPxxxx4060	18.3	60	MA	1.4B	DetPak	50
YMPxxxx4080	24.4	80	MA	1.4B	Figure 96	40
YMPxxxx4100	30.5	100	MA	1.4B	Figure 96	30
YMPxxxx4120	36.6	120	MA	1.4B	Figure 96	30
YMPxxxx4150	45.7	150	L	1.4B	Spool	30
YMPxxxx4180	54.9	180	L	1.4B	Spool	30
YMPxxxx4200	61.0	200	L	1.4B	Spool	15
YMPxxxx4245	74.7	245	L	1.4B	Spool	15

\*Product Code xxxxx = Delay time in milliseconds

### Case Dimensions

D = 44.767 x 21.907 x 25.082 cm	17.625 x 8.625 x 9.875 in
DC = 47.625 x 46.038 x 27.305 cm	18.75 x 18.125 x 10.75 in
L = 35.878 x 35.56 x 39.688 cm	14.125 x 14 x 15.625 in
Mod A (MA) = 63.5 x 31 x 29.25 cm	25 x 12.25 x 11.5 in

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