

# RIONEL MS

Non Electric Millisecond Delay

www.maxam.net

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The RIONEL MS series detonators are high strength non-electric detonators designed for use as in-hole detonators in civil, quarrying and mining operations.

RIONEL MS detonators have been manufactured in a series of various delay timings.

RIONEL MS, when used in combination with RIONEL SCE surface connectors, offer a multitude of initiation sequence options.

RIONEL MS are highly accurate delays which reduce risk of timing overlap within initiation sequences.

The RIONEL MS detonator is a suitable initiator of RIOBOOSTERS and MAXAM's detonator sensitive explosive products.

Standard RIONEL MS detonators are supplied in a coiled configuration which ensures tangle free deployment and reduces memory (recoiling after deployment).



### Advantages

- High Strength Detonator, #8 strength
- Safe, reliable and user friendly
- Safe against extraneous electric currents
- Shock tube is designed with high tensile strength and elongation properties which prevent damage under normal operating conditions.
- The design, colours, labels and packaging all increase visibility and make identification easy



1. Three (3) layered shock tube coiled in a configuration which eases deployment and avoids tangles



2. RIONEL MS connector has no conventional detonator shell and is directly loaded with the primary charge



3. The fastening band is easy to break manually in order to achieve a quicker loading operation



4. Water resistant label which includes the timing delay, length and lot number

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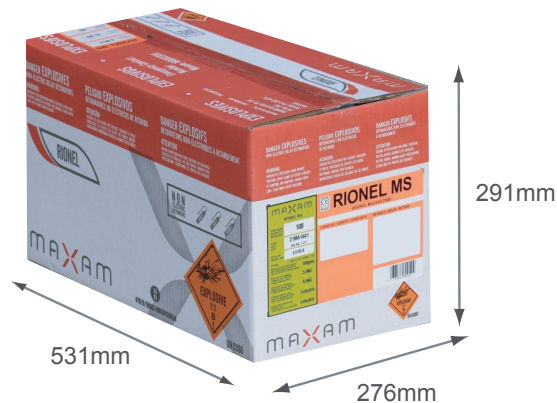
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## Delay Times (nominals values)

Delay	Time (ms)
18	450
20	500
24	600

## Standard Packaging, Class 1.1B (nominal values)

Length (m)	Units per box	Net Weight (kg)	Gross Weight (kg)	Tube Colour
4	100	4.4	3.5	Orange
6	100	5.5	4.6	Orange
7	100	6.1	5.2	Orange
9	70	5.8	4.9	Orange
10	70	5.8	4.9	Orange
12	70	8.6	7.7	Orange
15	60	6.7	5.8	Orange
18	60	7.7	6.8	Orange
24	40	6.9	6.0	Orange
30	40	8.3	7.4	Orange



Transport Classification	Standard Packaging
Class	1.1B
UN Number	UN 0360

Contact your local MAXAM representative for further information.

### GENERAL INFORMATION

RIONEL MS detonators have a recommended shelf life of three (3) years from date of manufacture.

RIONEL MS detonators may be used for the initiation of detonating cord.

RIONEL MS detonators can be used in temperatures between -20°C to 70°C

RIONEL MS detonators must be stored in dry and well ventilated conditions in accordance with local regulations.

Read this Technical Data Sheet and the Safety Data Sheet carefully before using RIONEL MS series detonators. RIONEL MS detonators must not be used in flammable environments such as methane and coal dust. MAXAM strongly recommends to not use RIONEL products with detonators and or initiation systems supplied by other manufacturers in the same blast and declines all responsibility in these cases.

### LEGAL WARNING AND EXCLUSION OF RESPONSIBILITY

The information included in this document is subject to variations depending on the usage of the products as well as external factors such as temperature, humidity and pressure. The products described in this document are potentially dangerous and must be used and handled by competent staff only, following the applicable regulations. This document does not constitute contractual content and cannot be considered a contract. According to this document, MAXAM does not assume any obligation, responsibility or guarantee with third parties. The information contained in this sheet is valid as at 22nd February 2016. To ensure the user has all the latest information about the use and handling of this product please visit [www.maxam.net](http://www.maxam.net) and or check with your local MAXAM representative.

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