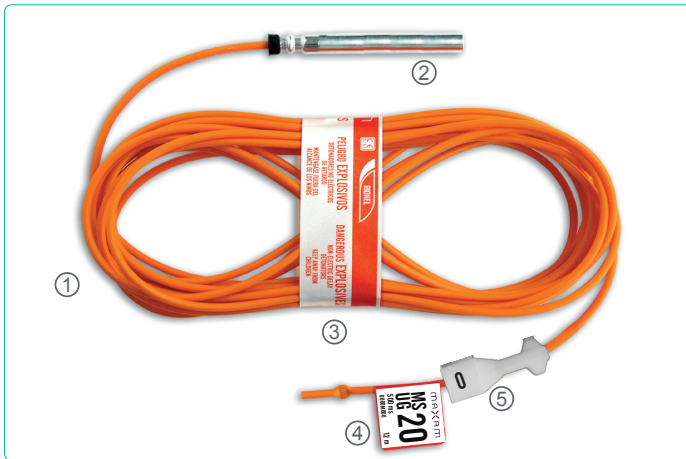
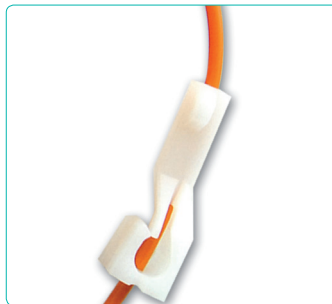


RIONEL MAXAM



1. Shock tube with 3-layers coiled in a "figure eighty" configuration



5. Printed and colour coded "J-Hook"

ADVANTAGES

- Safe, reliable and efficient.
- High tensile strength Shock tube to resist elongation, avoiding damage under normal operating conditions.
- Highly visible J-hook colours and labels for identification
- Wide range of delays to reduce the number of simultaneous hole detonations

DESCRIPTION

The RIONEL MS-UG series has been designed for use in underground mining and tunneling operations.

RIONEL MS-UG offers a wide range of 37 individual delays to facilitate efficient blasting for all operational scenarios. RIONEL MS-UG are highly accurate delays that reduce risk of timing overlap.

The RIONEL MS-UG detonator will initiate all #8 strength detonator sensitive explosive products from MAXAM's extensive range which include RIOBOOSTER, RIOGEL and RIOHIT.

RIONEL MS-UG includes a J-Hook connector that allows easy connection to RIOCORD detonating cord.

RIONEL MS-UG detonators are coiled in a patented "figure eighty" configuration which ensures efficient and tangle free deployment.

FEATURES

1. Shock Tube with 3-layers coiled in a "figure eighty" configuration for ease of deployment and avoids tangles.
2. #8 strength detonator fitted with extra secure double crimp
3. Easy break fastening band feature for fast deployment and hole loading operations
4. Water resistant label clearly display delay period timing, length and lot numbers
5. Printed and colour coded "J-Hook" enables quick identification and secure connection to RIOCORD (5g to 12g only)

SAFETY

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

RIONEL MS-UG are packed into sealed "barrier bags" contained inside cardboard boxes.

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

RIONEL MS-UG 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.

RIONEL MS-UG

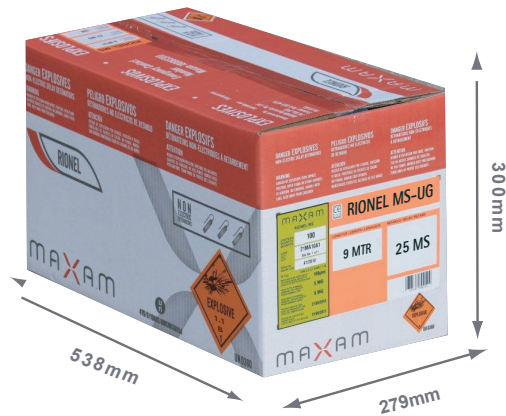
Delay Times (nominal values)

Delay	Time (ms)	J-Hook Colour
0	0	
1	25	
2	50	
3	75	
4	100	
5	125	
6	150	
7	175	
8	200	
9	225	
10	250	
11	300	
12	350	
13	400	
14	450	
15	500	
16	550	
17	600	
18	650	
19	700	
20	750	
21	800	
22	900	
23	1000	
24	1200	
25	1400	
26	1600	
27	1800	
28	2000	
29	2500	
30	3000	
31	3500	
32	4000	
33	4500	
34	5000	
35	5500	
36	6000	

Standard Packaging, Class 1.1B (nominal values)

Length (m)	Units per box	Gross Weight (kg)	Net Weight (kg)	Tube Colour
9*	70	5.4	4.5	Orange
12*	70	8.6	7.7	Orange
15*	60	6.9	6.0	Orange
18*	60	8.0	7.1	Orange
24*	40	6.9	6.0	Orange
30*	40	8.3	7.4	Orange
36*	40	9.3	8.4	Orange

*Standard Length. Fastest available delivery time. Other lengths upon request. Unit packaging is in Coils.



Transport Classification	
Class	1.1B
UN Number	UN 0360

GENERAL INFORMATION

RIONEL MS-UG detonators have a recommended shelf life of three (3) years from date of manufacture. RIONEL MS-UG detonators must not be used for the initiation of detonating cord. RIONEL MS-UG detonators can be used in temperatures between -20 C to 70 C. RIONEL MS-UG 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-UG series products. RIONEL MS-UG 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 13th July 2018. To ensure the user has all the latest information about the use and handling of this product please visit www.maxamaustralia.net and or check with your local MAXAM representative.

MAXAM Australia
PO Box 3948
Mt Omanney, QLD 4074
Phone: +61 7 3717 1818

maxamaustralia.net

MAXAM-AU_TDS-RIONEL-MSUG_180713