Description
The uni tronic™ 600 electronic detonator is one of Orica's exciting Next Generation products. The uni tronic™ 600 detonator is used in conjunction with:

- Blast Box 310 (with Bluetooth) or 310R (with wireless Remote firing), both with new firmware
- Scanner 120 / 125 (with new firmware)
- Scanner 200 (with on-bench, full-function testing of detonators)
- uni tronic™ 600 Tester for safe on-bench communication with Scanner 120 or 125 for testing of uni tronic™ 600 detonators
- Duplex harness wire

Application
uni tronic™ 600 detonators can be used in most surface mining applications but are particularly suitable for small and medium opencast coal mines, quarry & underground aggregate industries, and for construction.

Key Benefits
- Reliable, effective and safe blasting is achieved because of the rugged, proven construction of the uni tronic™ 600 detonator, with inherently safe testability on the blast pattern
- Efficient operations on the blast pattern are afforded by the convenient packaging and excellent, glove-friendly connector and duplex harness wire

Technical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire color</td>
<td>Yellow</td>
</tr>
<tr>
<td>Connector color</td>
<td>Red</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>20 kg / 44 lbs</td>
</tr>
<tr>
<td>Explosives charge weight</td>
<td>900 mg</td>
</tr>
<tr>
<td>Shell material</td>
<td>Copper alloy</td>
</tr>
<tr>
<td>Shell length x diameter</td>
<td>89 x 7.6 mm</td>
</tr>
<tr>
<td>Programmability</td>
<td>±1 ms</td>
</tr>
<tr>
<td>Max delay time</td>
<td>10 seconds</td>
</tr>
<tr>
<td>Precision as coefficient of variation</td>
<td>±0.03%</td>
</tr>
</tbody>
</table>

- Predictable blasting results with minimal environmental impact are achievable because of the high precision of uni tronic™ 600 electronic detonators
- Reliable initiation of all boosters is achieved by the full strength base charge in the detonator

Recommendations for Use

- uni tronic™ 600 detonators can only be tested, programmed and fired using dedicated uni tronic™ equipment. Do not use any other programming or blasting equipment
- Damage to the legwire insulation is the most common cause of problems with electronic blasting systems; exercise care and protect the wires when loading and stemming holes
- The recommended operating temperature range of uni tronic™ 600 detonators is -4°F (-20°C) to +158°F (+70°C).

Sleep-Time Within Blastholes
The recommended maximum sleep time is 21 days. Sleep time is dependent on ground water conditions. An Orica Technical Services Representative should be consulted if special conditions exist that may reduce the allowed sleep time, or if sleep times longer than 21 days are needed.
Packaging

uni tronic™ 600 detonators are available in the following lengths and packaging:

<table>
<thead>
<tr>
<th>Length configuration</th>
<th>1.1 B Packaging</th>
<th>1.4 S Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Units / Case</td>
<td>Weight per Case (kg / lbs)</td>
</tr>
<tr>
<td>*3 m / 10 ft (Coil)</td>
<td>100</td>
<td>4.9 / 10.8</td>
</tr>
<tr>
<td>*6 m / 20 ft (Coil)</td>
<td>80</td>
<td>5.8 / 12.8</td>
</tr>
<tr>
<td>9 m / 30 ft (Spool)</td>
<td>66</td>
<td>8.1 / 17.9</td>
</tr>
<tr>
<td>15 m / 50 ft (Spool)</td>
<td>66</td>
<td>11.3 / 24.9</td>
</tr>
<tr>
<td>20 m / 65 ft (Spool)</td>
<td>66</td>
<td>13.5 / 29.7</td>
</tr>
<tr>
<td>25 m / 80 ft (Spool)</td>
<td>54</td>
<td>13.2 / 29.1</td>
</tr>
<tr>
<td>30 m / 100 ft (Spool)</td>
<td>36</td>
<td>10.6 / 23.4</td>
</tr>
<tr>
<td>*37 m / 120 ft (Spool)</td>
<td>30</td>
<td>10.7 / 23.6</td>
</tr>
<tr>
<td>*55 m / 180 ft (Spool)</td>
<td>25</td>
<td>12.4 / 27.3</td>
</tr>
<tr>
<td>*70 m / 230 ft (Spool)</td>
<td>18</td>
<td>11.6 / 25.6</td>
</tr>
</tbody>
</table>

* Non-standard lengths requiring a longer lead time

Product Classification

Authorized Name: uni tronic™ 600
Correct Shipping Name: Detonators, Electric for blasting
UN No: 0030
Classification: 1.1B
Ex No: 2010060240

UN No: 0456
Classification: 1.4S
Ex No: 2010080322

All regulations pertaining to the handling and use of such explosives apply.

Storage

Store uni tronic™ 600 detonators in a suitably licensed magazine for Class 1.1B explosives. The cases should be stacked in the manner designated on the cases.

uni tronic™ 600 detonators have a storage life of up to 5 years in an approved magazine. The product is best stored at temperatures between -4°F (-20°C) to +120°F (+50°C).

Transport

uni tronic™ 600 detonators may be transported at temperatures between -40°F (-40°C) to +149°F (+65°C).

Disposal

Disposal of explosive materials can be hazardous. Methods of safe disposal of explosives may vary depending on the user’s situation. Please contact an Orica Technical Services Representative for information on safe practices.

Safety

uni tronic™ 600 electronic initiating systems provide a high level of safety against initiation by static electricity, stray electrical currents and radio frequency transmissions. However, these detonators contain pyrotechnics and molecular explosives, which can initiate under intense impact, friction or heat.

As with all high explosives, uni tronic™ 600 detonators must be handled and stored with care. These detonators may only be used at temperatures up to 158°F / 70°C.

uni tronic™ 600 detonators can only be tested, programmed and fired using dedicated uni tronic™ 600 equipment. Do not use any other programming or blasting equipment.

See Safety Data Sheet for more information.
DISCLAIMER

© 2017 Orica Group. All rights reserved. All information contained in this document is provided for informational purposes only and is subject to change without notice. Since the Orica Group cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, the Orica Group specifically disclaims all warranties express or implied in law, INCLUDING ACCURACY, NON-INFRINGEMENT, AND IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The Orica Group specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document.

The word Orica and the Ring device are trademarks of the Orica Group.

For more information please visit our website: www.orica.com

Orica’s North America headquarters can be reached at:
Tel: +1 303 268 5000
Fax: +1 303 268 5250

EMERGENCY TELEPHONE NUMBERS
For chemical emergencies (24 hour) involving transportation, spill, leak, release, fire or accidents:

Canada: Orica Canada emergency response 1-877-561-3636

USA: Chemtrec 1-800-424-9300