**APPLICATION**

The **daveydet® SR copper** is a high strength electric detonator designed to provide accurate, secure and reliable initiation of all detonator sensitive explosives used in seismic surveys.

**CONDITIONS FOR OPERATING**

- Temperature range: -20°C to +50°C
- Watertightness (folded): 7 bars (101 psi)
- Watertightness (spooled): 13 bars (188 psi)

**FIRING TIME**

Less than 1 ms for a 5 A firing current.

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**FUSEHEAD CARACTERISTICS**

- Medium Intensity fusehead N57 TS.
- Fusehead resistance: 0.32 +/− 0.10 Ohm
- No fire current (Io): 0.6 A
- All fire current (I1): 2 A
- Max no fire energy (W0): 8 mJ/Ω
- Min fire energy (W1): 16 mJ/Ω
- Min firing current for 5 detonators fired in series: 2.5 A

**DETONATOR CONSTRUCTION**

- Material: Aluminium alloy
- Output: #8 cap strength
- PETN charge: 800 mg
- Primary charge: 200 mg

**LEAD WIRE**

**Folded version (3, 5, 8, 10 m):**

- Material: copper
- Diameter wire: 0.51 mm (AWG 24)
- Electrical resistance: 0.17 Ω/m of duplex wire
- Insulation diameter: 1.25 mm
- Insulation: PVC pink / green
- Tensile strength: 100 N (27 lbs)
- Abrasion resistance: compliant to EN13763-4(class I)

**On spool version (10, 15, 20, 30, 40, 50 m):**

- Material: copper
- Diameter wire: 0.70 mm (AWG 21)
- Electrical resistance: 0.095 Ω/m of duplex wire
- Insulation diameter: 1.45 mm
- Insulation: HDPE pink / green
- Tensile strength: 230 N (62 lbs)
- Abrasion resistance: compliant to EN13763-4(class II)

**ELECTROSTATIC DISCHARGE RESISTANCE**

Compliant to EN 13763-1 (class II), Ahead of IAGC requirements (MIL – STD - 1512)

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**DETONATOR EXPLOSIVE DANGER**

Black silk screen marking
RECOMMENDATIONS FOR USE

daveydet®SR copper Electric Detonators incorporate sensitive elements within the detonator. These elements can be initiated by heavy impact, friction or intense heat. Detonators should only be used by personnel who have been properly trained in safe and correct handling procedures.
daveydet®SR copper Electric Detonators should be properly connected using tight and insulated connection in order to avoid earth leakage or shorting. Circuits should be tested with an approved ohmmeter for resistance and continuity before connecting to an exploder.

CONDITIONS FOR STORAGE & TRANSPORT

Temperature range          : -40°C to +70°C (-40°F to +158°F)
Shelf life                 : 2 years.

CE TYPE AND TRANSPORT CLASSIFICATION

CE type test number       : 0080.EXP.97.0069 C1
Transport classification : 1.1B – 1.4S
UN-number                 : 0030 - 0456

PACKAGING

<table>
<thead>
<tr>
<th>Wire Length</th>
<th>Quantity/case (pieces)</th>
<th>Gross Weight (kg)</th>
<th>Explosive net Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.1 B</td>
<td>1.4 S</td>
<td>1.1 B</td>
</tr>
<tr>
<td>3m</td>
<td></td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>5m</td>
<td>360</td>
<td>240</td>
<td>16</td>
</tr>
<tr>
<td>8m</td>
<td>240</td>
<td>160</td>
<td>16.5</td>
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<tr>
<td>10 m*</td>
<td>NA</td>
<td>100</td>
<td>NA</td>
</tr>
<tr>
<td>15 m</td>
<td>NA</td>
<td>100</td>
<td>NA</td>
</tr>
<tr>
<td>20 m</td>
<td>NA</td>
<td>100</td>
<td>NA</td>
</tr>
<tr>
<td>30 m</td>
<td>NA</td>
<td>80</td>
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<td>40 m</td>
<td>NA</td>
<td>64</td>
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</tr>
<tr>
<td>50 m</td>
<td>NA</td>
<td>56</td>
<td>NA</td>
</tr>
<tr>
<td>Total resistance of the detonator</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wire length</td>
<td>Cu Ø 0,51 mm folded Ω</td>
<td>Cu Ø 0,7mm spooled Ω</td>
<td></td>
</tr>
<tr>
<td>3 m</td>
<td>0,96</td>
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<td></td>
</tr>
<tr>
<td>5 m</td>
<td>1,3</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>8 m</td>
<td>1,8</td>
<td>NA</td>
<td></td>
</tr>
<tr>
<td>10 m</td>
<td>2,15</td>
<td>1,4</td>
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<td>NA</td>
<td>1,9</td>
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</tr>
<tr>
<td>20 m</td>
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</tr>
<tr>
<td>30 m</td>
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<td>3,3</td>
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</tr>
<tr>
<td>50 m</td>
<td>NA</td>
<td>5,2</td>
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</table>

Box size: 445 x 230 x 300 mm (volume 0.031m³)
* Folded or on spool both available