BS 5467 Copper Conductor Multi Core SWA PVC 1.9/3.3kV Cable

APPLICATION
Multi-core PVC cable with steel wire armour (SWA). This cable is suitable for direct burial free-draining soil conditions for fixed indoor and outdoor installations.

CHARACTERISTICS
Voltage Rating Uo/U
1.9/3.3kV

Temperature Rating
Maximum Operating: +90°C
Maximum Short-Circuit: +250°C

Minimum Bending Radius
12 x overall diameter

CONSTRUCTION
Conductor
Class 2 stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Separator
Polyester Tape

Filler
PVC (Polyvinyl Chloride)

Armour
SWA (Galvanized Steel Wire Armour)

Outer Sheath
PVC (Polyvinyl Chloride)

Core Identification
● Brown ● Black ● Grey

Sheath Colour
● Black

STANDARDS
BS 5467, IEC 60502-1
Flame retardant according to EN / IEC 60332-1

ISO/IEC 17025 LABORATORY TESTED
This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

REGULATORY COMPLIANCE
This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

ISO/IEC 17025 LABORATORY TESTED
This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

REGULATORY COMPLIANCE
This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.
## DIMENSIONS

<table>
<thead>
<tr>
<th>ELAND PART NO.</th>
<th>NO. OF CORES</th>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>NOMINAL DIAMETER OF CONDUCTOR mm</th>
<th>NOMINAL THICKNESS OF INSULATION mm</th>
<th>MINIMUM THICKNESS OF OUTER SHEATH mm</th>
<th>NOMINAL OUTER DIAMETER mm</th>
<th>NOMINAL WEIGHT kg/km</th>
</tr>
</thead>
<tbody>
<tr>
<td>B9S03010BK</td>
<td>3</td>
<td>10</td>
<td>3.85</td>
<td>2.0</td>
<td>1.24</td>
<td>23</td>
<td>1545</td>
</tr>
<tr>
<td>B9S03016BK</td>
<td>3</td>
<td>16</td>
<td>4.70</td>
<td>2.0</td>
<td>1.24</td>
<td>27</td>
<td>1680</td>
</tr>
<tr>
<td>B9S03025BK</td>
<td>3</td>
<td>25</td>
<td>5.85</td>
<td>2.0</td>
<td>1.24</td>
<td>30</td>
<td>2100</td>
</tr>
<tr>
<td>B9S03035BK</td>
<td>3</td>
<td>35</td>
<td>6.90</td>
<td>2.0</td>
<td>1.32</td>
<td>32</td>
<td>2530</td>
</tr>
</tbody>
</table>

## ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>NOMINAL CROSS SECTIONAL AREA mm²</th>
<th>CURRENT CARRYING CAPACITY A</th>
<th>MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>clipped direct</td>
<td>In free air or on a perforated cable tray etc, horizontal or vertical at 30°C</td>
</tr>
<tr>
<td>10</td>
<td>73</td>
<td>78</td>
</tr>
<tr>
<td>16</td>
<td>94</td>
<td>99</td>
</tr>
<tr>
<td>25</td>
<td>124</td>
<td>131</td>
</tr>
<tr>
<td>35</td>
<td>154</td>
<td>162</td>
</tr>
</tbody>
</table>

Air ambient temperature: 30°C  
Ground ambient temperature: 20°C  
Conductor operating temperature: 90°C

Notes

1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see Regulation 512.1.2 of the 18th Edition of IEE Wiring Regulations).

2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current ratings given in the equivalent table for 70°C thermoplastic insulated cables (Table 4D4A) must be used (see also Regulation 523.1 of the 18th Edition of IEE Wiring Regulations).

The above table is in accordance with Table 4E4A of the 18th Edition of IEE Wiring Regulations.

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.