

SANS 1507-3 Steel Wired Armoured PVC-PVC 0.6/1kV Cable



Eland Product Group: B7S

APPLICATION

Direct burial in free-draining soil conditions for fixed indoor and outdoor installations.

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating
Operating Temperature: -20 to +70 °C

Minimum Bending Radius
1.5mm² to 16mm² - Fixed: 6 x overall diameter
25mm² and above - Fixed: 8 x overall diameter

CONSTRUCTION

Conductor
Copper conductor

Insulation
PVC (Polyvinyl Chloride)

Bedding
PVC (Polyvinyl Chloride)

Armour
SWA (Galvanized Steel Wire Armour)

Sheath
PVC (Polyvinyl Chloride)

Core Identification
2 core: ● Red ● Yellow
3 core: ● Red ● Yellow ● Blue
4 core: ● Red ● Yellow ● Blue ● Black

Sheath Colour
● Black with ● Blue Stripe

STANDARDS

SANS 1507-3
Flame Retardant according to IEC 60332-1-2

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.



8578



FS 672069



EMS 672067



OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of 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™.



KM 634287





DIMENSIONS

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | NOMINAL THICKNESS OF INSULATION mm | NOMINAL DIAMETER mm | | NOMINAL WEIGHT kg/km |
|----------------|--------------|--|------------------------------------|---------------------|---------|----------------------|
| | | | | Under Armour | Overall | |
| B7SFR020015 | 2 | 1.5 | 0.8 | 9.75 | 12.6 | 313 |
| B7SFR020025 | 2 | 2.5 | 0.8 | 10.59 | 13.6 | 370 |
| B7SFR020040 | 2 | 4 | 1 | 12.41 | 15.4 | 478 |
| B7SFR020060 | 2 | 6 | 1 | 13.55 | 16.6 | 564 |
| B7SFR02010 | 2 | 10 | 1 | 15.56 | 18.8 | 794 |
| B7SFR02016 | 2 | 16 | 1 | 17.46 | 20.7 | 1001 |
| B7SFR02025 | 2 | 25 | 1.2 | 22.03 | 25.4 | 1546 |
| B7SFR02035 | 2 | 35 | 1.2 | 24.03 | 27.4 | 1852 |
| B7SFR02050 | 2 | 50 | 1.4 | 24.92 | 28.3 | 1863 |
| B7SFR02070 | 2 | 70 | 1.4 | 27.67 | 31.3 | 2377 |
| B7SFR02095 | 2 | 95 | 1.6 | 31.60 | 35.6 | 3080 |
| B7SFR02120 | 2 | 120 | 1.6 | 35.04 | 39.0 | 3869 |
| B7SFR02150 | 2 | 150 | 1.8 | 37.88 | 42.3 | 4610 |
| B7SFR02185 | 2 | 185 | 2 | 41.32 | 46.1 | 5506 |
| B7SFR02240 | 2 | 240 | 2.2 | 48.12 | 52.9 | 7289 |
| B7SFR030015 | 3 | 1.5 | 0.8 | 10.26 | 13.3 | 351 |
| B7SFR030025 | 3 | 2.5 | 0.8 | 11.17 | 14.2 | 411 |
| B7SFR030040 | 3 | 4 | 1 | 13.13 | 16.1 | 539 |
| B7SFR030060 | 3 | 6 | 1 | 15.05 | 18.3 | 743 |
| B7SFR03010 | 3 | 10 | 1 | 16.48 | 19.7 | 919 |
| B7SFR03016 | 3 | 16 | 1 | 18.53 | 21.7 | 1181 |
| B7SFR03025 | 3 | 25 | 1.2 | 23.35 | 26.8 | 1820 |
| B7SFR03035 | 3 | 35 | 1.2 | 25.51 | 29.1 | 2229 |
| B7SFR03050 | 3 | 50 | 1.4 | 27.10 | 30.7 | 2485 |
| B7SFR03070 | 3 | 70 | 1.4 | 30.40 | 34.4 | 3226 |
| B7SFR03095 | 3 | 95 | 1.6 | 35.48 | 39.9 | 4477 |
| B7SFR03120 | 3 | 120 | 1.6 | 38.58 | 43.0 | 5314 |
| B7SFR03150 | 3 | 150 | 1.8 | 42.68 | 47.5 | 6444 |
| B7SFR03185 | 3 | 185 | 2 | 47.56 | 52.4 | 8051 |
| B7SFR03240 | 3 | 240 | 2.2 | 52.76 | 58.0 | 10114 |
| B7SFR040015 | 4 | 1.5 | 0.8 | 11.09 | 14.1 | 395 |
| B7SFR040025 | 4 | 2.5 | 0.8 | 12.11 | 15.1 | 468 |
| B7SFR040040 | 4 | 4 | 1 | 15.00 | 18.0 | 709 |
| B7SFR040060 | 4 | 6 | 1 | 16.38 | 19.6 | 857 |
| B7SFR04010 | 4 | 10 | 1 | 17.98 | 21.2 | 1075 |
| B7SFR04016 | 4 | 16 | 1 | 21.74 | 25.1 | 1599 |
| B7SFR04025 | 4 | 25 | 1.2 | 25.50 | 29.1 | 2172 |
| B7SFR04035 | 4 | 35 | 1.2 | 27.92 | 31.5 | 2666 |
| B7SFR04050 | 4 | 50 | 1.4 | 30.60 | 34.6 | 3167 |
| B7SFR04070 | 4 | 70 | 1.4 | 35.58 | 40.0 | 4388 |
| B7SFR04095 | 4 | 95 | 1.6 | 40.08 | 44.9 | 5711 |
| B7SFR04120 | 4 | 120 | 1.6 | 45.06 | 49.9 | 7217 |
| B7SFR04150 | 4 | 150 | 1.8 | 49.36 | 54.2 | 8595 |
| B7SFR04185 | 4 | 185 | 2 | 53.86 | 59.1 | 10337 |
| B7SFR04240 | 4 | 240 | 2.2 | 59.96 | 65.6 | 12999 |



ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA mm ² | MAXIMUM CONDUCTOR DC RESISTANCE AT 20 °C ohm/km | CURRENT CARRYING CAPACITY (A) | | | | | |
|---|--|-------------------------------|-----------|----------|-----------|----------|-----------|
| | | 2 cores | | 3 cores | | 4 cores | |
| | | Free Air | In Ground | Free Air | In Ground | Free Air | In Ground |
| 1.5 | 12.1 | 22 | 22 | 19 | 18 | 19 | 18 |
| 2.5 | 7.41 | 31 | 29 | 26 | 24 | 26 | 24 |
| 4 | 4.61 | 41 | 37 | 35 | 30 | 35 | 30 |
| 6 | 3.08 | 53 | 46 | 45 | 38 | 45 | 38 |
| 10 | 1.83 | 72 | 60 | 62 | 50 | 62 | 50 |
| 16 | 1.15 | 97 | 78 | 83 | 64 | 83 | 64 |
| 25 | 0.727 | 128 | 99 | 110 | 82 | 110 | 82 |
| 35 | 0.524 | 157 | 119 | 135 | 98 | 135 | 98 |
| 50 | 0.387 | 190 | 140 | 163 | 116 | 163 | 116 |
| 70 | 0.268 | 241 | 173 | 207 | 143 | 207 | 143 |
| 95 | 0.193 | 291 | 204 | 251 | 169 | 251 | 169 |
| 120 | 0.153 | 336 | 231 | 290 | 192 | 290 | 192 |
| 150 | 0.124 | 386 | 261 | 332 | 217 | 332 | 217 |
| 185 | 0.0991 | 439 | 292 | 378 | 243 | 378 | 243 |
| 240 | 0.0754 | 516 | 336 | 445 | 280 | 445 | 280 |