

Torsion Resistant PVC/PVC 600V Cable



Eland Product Group: B9G

APPLICATION

Wind Farm Turbine cables with increased tolerance to torsion as well as being UV and oil resistant. Special PVC remains flexible at low temperatures.

CHARACTERISTICS

Rated Voltage
600V

Temperature Rating
-40°C +80°C

Minimum Bending Radius
Fixed: 4 x Overall Diameter
Flexed: 10x Overall Diameter

Torsion Application
±140°/m

CONSTRUCTION

Conductor
Class 2 Stranded Bare Copper

Insulation
Special PVC (Polyvinyl Chloride)

Outer Sheath
Special PVC (Polyvinyl Chloride)

Sheath Colour
● Black

STANDARDS

UL 758, DIN VDE 0295, IEC 60811-2-1,
Flame retardant according to CSA C 22.2

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.



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

| ELAND PART NUMBER | NUMBER OF CORES | NOMINAL CROSS-SECTION mm ² | AWG/MCM | NOMINAL OVERALL DIAMETER mm | NOMINAL WEIGHT kg/km |
|-------------------|-----------------|---------------------------------------|---------|-----------------------------|----------------------|
| B9G01070BK | 1 | 35 | 2 | 12.9 | 460 |
| B9G01095BK | 1 | 70 | 2/0 | 17.9 | 880 |
| B9G01120BK | 1 | 95 | 3/0 | 21.9 | 1230 |
| B9G01150BK | 1 | 120 | 4/0 | 23.1 | 1540 |
| B9G01185BK | 1 | 150 | 300 | 27.2 | 1870 |
| B9G01240BK | 1 | 185 | 350 | 28.0 | 2300 |
| B9G01300BK | 1 | 240 | 500 | 31.2 | 2970 |
| B9G01400BK | 1 | 300 | 600 | 35.0 | 3730 |
| B9G020015BK | 1 | 400 | 750 | 39.3 | 4500 |
| B9G0300075BK | 3 | 0.75 | 19 | 7.3 | 77 |
| B9G030015BK | 3 | 1.5 | 16 | 8.0 | 110 |
| B9G030025BK | 3 | 2.5 | 14 | 8.9 | 151 |
| B9G030040BK | 3 | 4 | 12 | 10.8 | 250 |
| B9G030060BK | 3 | 6 | 10 | 13.1 | 340 |
| B9G04000034BK | 4 | 0.34 | 22 | 7.1 | 86 |
| B9G0400005BK | 4 | 0.5 | 20 | 7.4 | 99 |
| B9G0400075BK | 4 | 0.75 | 19 | 7.9 | 100 |
| B9G040010BK | 4 | 1.0 | 18 | 8.3 | 100 |
| B9G040015BK | 4 | 1.5 | 16 | 8.9 | 131 |
| B9G040025BK | 4 | 2.5 | 14 | 9.7 | 230 |
| B9G040040BK | 4 | 4 | 12 | 12.0 | 270 |
| B9G040060BK | 4 | 6 | 10 | 14.6 | 460 |
| B9G04010BK | 4 | 10 | 8 | 17.4 | 670 |
| B9G04016BK | 4 | 16 | 6 | 22.6 | 1000 |
| B9G04025BK | 4 | 25 | 4 | 26.5 | 1580 |
| B9G04035BK | 4 | 35 | 2 | 31.4 | 2100 |
| B9G04050BK | 4 | 50 | 1 | 36.7 | 2800 |
| B9G0500075BK | 5 | 0.75 | 19 | 8.6 | 120 |
| B9G050010BK | 5 | 1.0 | 18 | 9.0 | 110 |
| B9G050015BK | 5 | 1.5 | 16 | 9.7 | 165 |
| B9G050025BK | 5 | 2.5 | 14 | 10.9 | 250 |
| B9G050040BK | 5 | 4 | 12 | 13.6 | 370 |
| B9G050060BK | 5 | 6 | 10 | 16.3 | 550 |
| B9G05010BK | 5 | 10 | 8 | 20.1 | 870 |
| B9G05016BK | 5 | 16 | 6 | 25.4 | 1250 |
| B9G05025BK | 5 | 25 | 4 | 28.2 | 1900 |
| B9G05035BK | 5 | 35 | 2 | 35.4 | 2600 |
| B9G0600005BK | 6 | 0.5 | 20 | 8.6 | 121 |
| B9G0700075BK | 7 | 0.75 | 19 | 10.0 | 170 |
| B9G070010BK | 7 | 1.0 | 18 | 10.5 | 140 |
| B9G070015BK | 7 | 1.5 | 16 | 12.0 | 210 |
| B9G070025BK | 7 | 2.5 | 14 | 14.4 | 360 |
| B9G070040BK | 7 | 4 | 12 | 15.9 | 530 |
| B9G070060BK | 7 | 6 | 10 | 19.6 | 780 |



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| ELAND PART NUMBER | NUMBER OF CORES | NOMINAL CROSS-SECTION MM | AWG/MCM | NOMINAL OVERALL DIAMETER MM | NOMINAL WEIGHT KG/KM |
|-------------------|-----------------|--------------------------|---------|-----------------------------|----------------------|
| B9G07010BK | 7 | 10 | 8 | 23.5 | 1150 |
| B9G1000005BK | 10 | 0.5 | 20 | 10.8 | 165 |
| B9G1000075BK | 10 | 0.75 | 19 | 11.0 | 200 |
| B9G100010BK | 10 | 1.0 | 18 | 13.0 | 220 |
| B9G100015BK | 10 | 1.5 | 16 | 13.1 | 270 |
| B9G100025BK | 10 | 2.5 | 14 | 15.8 | 480 |
| B9G1200005BK | 12 | 0.5 | 20 | 11.1 | 208 |
| B9G1200075BK | 12 | 0.75 | 19 | 11.8 | 220 |
| B9G120010BK | 12 | 1.0 | 18 | 13.2 | 240 |
| B9G120015BK | 12 | 1.5 | 16 | 14.3 | 360 |
| B9G120025BK | 12 | 2.5 | 14 | 16.3 | 580 |
| B9G120040BK | 12 | 4 | 12 | 19.6 | 740 |
| B9G1400075BK | 14 | 0.75 | 19 | 12.5 | 238 |
| B9G140010BK | 14 | 1.0 | 18 | 13.4 | 280 |
| B9G140015BK | 14 | 1.5 | 16 | 14.9 | 420 |
| B9G1600075BK | 16 | 0.75 | 19 | 13.2 | 271 |
| B9G160010BK | 16 | 1.0 | 18 | 14.1 | 310 |
| B9G160015BK | 16 | 1.5 | 16 | 15.7 | 450 |
| B9G1800075BK | 18 | 0.75 | 19 | 13.9 | 310 |
| B9G180010BK | 18 | 1.0 | 18 | 15.1 | 360 |
| B9G180015BK | 18 | 1.5 | 16 | 16.8 | 510 |
| B9G190025BK | 19 | 2.5 | 14 | 20.4 | 690 |
| B9G2100075BK | 21 | 0.75 | 19 | 15.2 | 380 |
| B9G210010BK | 21 | 1.0 | 18 | 16.7 | 410 |
| B9G210015BK | 21 | 1.5 | 16 | 17.8 | 590 |
| B9G2500075BK | 25 | 0.75 | 19 | 16.9 | 490 |
| B9G250010BK | 25 | 1.0 | 18 | 18.4 | 500 |
| B9G250015BK | 25 | 1.5 | 16 | 20.6 | 700 |
| B9G3200075BK | 32 | 0.75 | 19 | 18.2 | 560 |
| B9G320010BK | 32 | 1.0 | 18 | 19.8 | 590 |
| B9G320015BK | 32 | 1.5 | 16 | 22.2 | 900 |
| B9G3600075BK | 36 | 0.75 | 19 | 19.1 | 620 |
| B9G360015BK | 36 | 1.0 | 18 | 20.6 | 700 |
| B9G4000075BK | 36 | 1.5 | 16 | 23.1 | 980 |
| B9G400010BK | 40 | 0.75 | 19 | 20.5 | 729 |
| B9G400015BK | 40 | 1.0 | 18 | 22.4 | 800 |
| B9G4100075BK | 40 | 1.5 | 16 | 25.0 | 1050 |
| B9G410010BK | 41 | 0.75 | 19 | 20.8 | 729 |
| B9G410015BK | 41 | 1.0 | 18 | 22.4 | 810 |
| B9G460010BK | 41 | 1.5 | 16 | 25.0 | 1050 |
| B9G5000075BK | 50 | 0.75 | 19 | 23.5 | 990 |
| B9G500010BK | 50 | 1.0 | 18 | 24.6 | 980 |
| B9G500015BK | 50 | 1.5 | 16 | 27.7 | 1200 |