

# Flat Wire NGFLGOU Cable



Eland Product Group: B6N

## APPLICATION

For the connection of mobile parts of machine tools, conveyor plants and large-scale equipment, if the cable is exposed to bends in only one level (cable trolley). In dry, damp and wet rooms as well as outdoors.

## CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
300/500V

**Temperature Rating**  
Fixed: -40°C to +90°C  
Flexed: -35°C to +90°C

**Minimum Bending Radius**  
Fixed: 5 x overall diameter  
Moving: 10 x overall diameter

## CONSTRUCTION

**Conductor**  
Class 6 Extra Finely Stranded Bare Copper

**Insulation**  
EPR (Ethylene Propylene Rubber)

**Sheath**  
CR (Chloroprene Rubber)

**Core Identification**  
4 cores: ● Green/Yellow ● Brown ● Black ● Grey  
5 cores: ● Green/Yellow ● Blue ● Brown ● Black ● Grey  
7 cores and over: ● Black with white numbers ● Green/Yellow

**Sheath Colour**  
● Black

## STANDARDS

VDE 0250 T.809, , VDE 0293 (HD 308)

Flame Retardant according to VDE 0482-332-1-2, IEC 60332-1-2

Oil Resistant according to EN 60811-404

UV Resistant, Ozone Resistant

## THE CABLE LAB<sup>®</sup>

AN ISO/IEC 17025 AND IECCE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



## SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: [www.elandcables.com/company/about-us/esg-sustainability](http://www.elandcables.com/company/about-us/esg-sustainability)



## REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL WIDTH OF CABLE mm	NOMINAL HEIGHT OF CABLE mm	NOMINAL WEIGHT kg/km	TENSILE STRENGTH N
B6N040015BK	4	1.5	17.5	6.2	200	90
B6N040025BK	4	2.5	21.1	7.5	280	150
B6N040040BK	4	4	26.1	9.1	410	240
B6N040060BK	4	6	29.1	9.5	600	360
B6N04010BK	4	10	33.1	11.1	800	600
B6N04016BK	4	16	37.8	12.9	1150	960
B6N04025BK	4	25	49.5	15.1	1700	1500
B6N04035BK	4	35	54.9	17.1	2200	2100
B6N04050BK	4	50	62.8	18.9	3000	1500
B6N04070BK	4	70	71.2	22.1	3910	4200
B6N04095BK	4	95	79.8	24.8	5300	5700
B6N04120BK	4	120	85.8	27.2	6400	7200
B6N050015BK	5	1.5	21.5	6.2	240	112
B6N050025BK	5	2.5	27.1	7.5	332	187
B6N050040BK	5	4	32.1	9.1	560	300
B6N050060BK	5	6	35.1	9.5	650	450
B6N05010BK	5	10	44.1	11.1	1135	750
B6N05016BK	5	16	49.8	12.9	1450	1200
B6N05025BK	5	25	59.8	16.1	2200	1875
B6N070015BK	7	1.5	29.1	6.2	360	157
B6N070025BK	7	2.5	34.9	7.5	520	262
B6N070040BK	7	4	41.9	9.1	700	420
B6N070060BK	7	6	42.1	9.5	850	630
B6N07025BK	7	25	79.7	16.1	2930	2625
B6N07035BK	7	35	88.2	17.1	3820	3675
B6N080015BK	8	1.5	31.5	6.2	370	180
B6N080025BK	8	2.5	39.1	7.5	550	300
B6N100015BK	10	1.5	39.9	6.5	460	225
B6N100025BK	10	2.5	47.9	8.1	680	375
B6N120015BK	12	1.5	47.1	6.5	620	270
B6N120025BK	12	2.5	56.1	8.1	800	450
B6N160015BK	16	1.5	4.2	6.5	900	360
B6N240015BK	24	1.5	55.1	12.5	1300	540
B6N240025BK	24	2.5	68.2	16.2	1480	900



## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONDUCTOR RESISTANCE Ω/km	AMPACITY IN AIR AT 30°C A
1.5	13.3	23
2.5	7.98	31
4	4.95	42
6	3.3	54
10	1.91	75
16	1.21	100
25	0.78	127
35	0.554	158
50	0.386	192
70	0.272	246
95	0.206	298
120	0.129	346

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.