

# (N)GFLCGÖU Screened Flat Festoon Cable



ELAND CABLES ©

Eland Product Group: B7F

## APPLICATION

Especially used for lifts, cranes, floor conveyor systems, elevators and festoon systems. Flat structure means suitable for installations where space is at premium and requires smaller bending radius. Copper screens are efficient against electromagnetic effects. Not suitable for torsional stress.

## CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U  
300/500V

**Temperature Rating**

Flexed: -50°C to +90°C

Mobile: -30°C to +90°C

Maximum Conductor Operating Temperature: 90°C

Maximum Conductor Short-Circuit Temperature: 250°C

**Minimum Bending Radius**

Fixed: 5 x overall diameter

Moving: 10 x overall diameter

**Maximum Tensile Load**

15N/mm for static

**Travel**

Festoon Systems: up to 180m/min

Gantry (reeling): No application

## CONSTRUCTION

**Conductor**

Up to 25mm<sup>2</sup>: Class 6 electrolytic annealed, plain copper

25mm<sup>2</sup> and above: Class 5 electrolytic annealed, plain copper

**Insulation**

EPR (Ethylene Propylene Rubber)

**Screen**

TCWB (Tinned copper wires braiding)

**Sheath**

CR (Chloroprene Rubber) type 5GM3

**Core Identification**

4 Core: ● Green/Yellow ● Brown ● Black ● Grey

5 Core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey

7 Core and above: ● Black with white numbering

**Sheath Colour**

● Black

## STANDARDS

VDE0293-308, DIN VDE 0250-809, DIN VDE 0250-1, DIN VDE 0298-3, DIN VDE 0472-501, 503, 508, DIN VDE 0472-401, 402, 602, 303, 615, DIN VDE 0472-803, 804, VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1, HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1

## THE CABLE LAB®

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)



SCIENCE  
BASED  
TARGETS

BUSINESS  
AMBITION FOR 1.5°C



## REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/853/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.





## DIMENSIONS

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | NOMINAL OVERALL DIAMETER<br>mm |               | NOMINAL WEIGHT<br>kg/km |
|----------------|--------------|-------------------------------------------------|--------------------------------|---------------|-------------------------|
|                |              |                                                 | Minimum                        | Maximum       |                         |
| B7F040015      | 4            | 1.5                                             | 6.2 x 17.8                     | 7.2 x 20.4    | 220                     |
| B7F040025      | 4            | 2.5                                             | 7.2 x 21.6                     | 8.3 x 24.8    | 320                     |
| B7F040040      | 4            | 4                                               | 10.1 x 27.8                    | 11.6 x 31.9   | 505                     |
| B7F040060      | 4            | 6                                               | 10.1 x 29.8                    | 11.6 x 34.1   | 605                     |
| B7F04010       | 4            | 10                                              | 11.0 x 34.6                    | 12.7 x 39.6   | 840                     |
| B7F04016       | 4            | 16                                              | 13.0 x 39.8                    | 14.9 x 45.7   | 1180                    |
| B7F04025       | 4            | 25                                              | 14.4 x 45.1                    | 16.5 x 51.7   | 1605                    |
| B7F04035       | 4            | 35                                              | 16.3 x 52.8                    | 18.7 x 60.5   | 2520                    |
| B7F04050       | 4            | 50                                              | 19.1 x 61.8                    | 21.7 x 66.0   | 2860                    |
| B7F04070       | 4            | 70                                              | 20.8 x 71.8                    | 24.75 x 75.8  | 4790                    |
| B7F04095       | 4            | 95                                              | 23.25 x 80.2                   | 27.25 x 84.0  | 5950                    |
| B7F04120       | 4            | 120                                             | 28.05 x 91.8                   | 31.05 x 96.8  | 7750                    |
| B7F050015      | 5            | 1.5                                             | 5.95 x 26.55                   | 7.95 x 28.55  | 440                     |
| B7F050025      | 5            | 2.5                                             | 7.25 x 30.65                   | 9.25 x 32.65  | 590                     |
| B7F050040      | 5            | 4                                               | 8.55 x 34.75                   | 10.55 x 36.75 | 770                     |
| B7F050060      | 5            | 6                                               | 9.15 x 37.75                   | 11.15 x 39.75 | 920                     |
| B7F05010       | 5            | 10                                              | 10.65 x 45.25                  | 12.65 x 47.25 | 1290                    |
| B7F05025       | 5            | 25                                              | 14.85 x 61.45                  | 16.85 x 63.45 | 2490                    |
| B7F070015      | 7            | 1.5                                             | 5.95 x 34.85                   | 7.95 x 36.85  | 570                     |
| B7F070025      | 7            | 2.5                                             | 7.25 x 40.35                   | 9.25 x 42.35  | 790                     |
| B7F070040      | 7            | 4                                               | 8.55 x 45.85                   | 10.55 x 47.85 | 1010                    |
| B7F070060      | 7            | 6                                               | 9.15 x 50.05                   | 11.15 x 52.05 | 1220                    |
| B7F07010       | 7            | 10                                              | 10.0 x 57.6                    | 12.0 x 59.6   | 1550                    |
| B7F07025       | 7            | 25                                              | 15.0 x 82.8                    | 17.0 x 84.8   | 3350                    |
| B7F07035       | 7            | 35                                              | 16.3 x 94.8                    | 18.7 x 99.8   | 4500                    |
| B7F080015      | 8            | 1.5                                             | 7.2 x 34.6                     | 8.3 x 39.6    | 470                     |
| B7F080025      | 8            | 2.5                                             | 7.25 x 43.2                    | 9.25 x 45.2   | 830                     |
| B7F100015      | 10           | 1.5                                             | 7.55 x 47.9                    | 8.55 x 49.9   | 810                     |
| B7F120015      | 12           | 1.5                                             | 8.1 x 52.0                     | 8.0 x 54.0    | 796                     |
| B7F120025      | 12           | 2.5                                             | 7.75 x 65.1                    | 9.6 x 69.0    | 1020                    |
| B7F240015      | 24           | 1.5                                             | 8.15 x 112.6                   | 9.15 x 114.6  | 1930                    |
| B7F240025      | 24           | 2.5                                             | 9.05 x 130.6                   | 11.05 x 132.6 | 2760                    |

## ELECTRICAL CHARACTERISTICS

| NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | PERMISSIBLE CURRENT RATING<br>(A) |
|--------------|-------------------------------------------------|-----------------------------------|
| 4            | 1.5                                             | 23                                |
| 4            | 2.5                                             | 32                                |
| 4            | 4                                               | 43                                |
| 4            | 6                                               | 56                                |

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.



| NO. OF<br>CORES | NOMINAL CROSS<br>SECTIONAL AREA<br>mm <sup>2</sup> | PERMISSIBLE CURRENT RATING<br>(A) |
|-----------------|----------------------------------------------------|-----------------------------------|
| 4               | 10                                                 | 75                                |
| 4               | 16                                                 | 100                               |
| 4               | 25                                                 | 127                               |
| 4               | 35                                                 | 158                               |
| 4               | 50                                                 | 192                               |
| 4               | 70                                                 | 246                               |
| 8               | 1.5                                                | 16                                |
| 12              | 1.5                                                | 12                                |
| 12              | 2.5                                                | 17                                |