

(N)GFLCGÖU Screened Flat Festoon Cable



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 U₀/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 25mm²: Class 6 electrolytic annealed, plain copper

25mm² 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

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 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™.



KM EHS2E7





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT 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 mm ²	PERMISSIBLE CURRENT RATING (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.



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ELAND
CABLES

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	PERMISSIBLE CURRENT RATING (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

ELAND CABLES