

PUR-HF Low Voltage Festoon Cable



Eland Product Group: B7U

APPLICATION

For use as energy and control cable in festoon systems and as a chain cable. Also suitable as drum reeling cable under moderate mechanical stresses, torsion, tension and torque. The special polyurethane compound jacket offers a very good protection against hydrolysis, solvents, alkalines and oils.

CHARACTERISTICS

Voltage Rating (U₀/U)
0.6/1kV

Temperature Rating
Fixed installation: -50°C to +80°C
Mobile operation: -40°C to +80°C

Minimum Bending Radius
Fixed Application: 6 x Overall Diameter
Mobile Applications: 8 x Overall Diameter

Maximum Tensile Load
15 N/mm²

Maximum Torsion
+/- 25°/m

Travel Speed
Festoon systems: up to 200m/min
Reeling applications: up to 60m/min horizontal
Chain systems: up to 200 N/mm

CONSTRUCTION

Conductor
Class 5 flexible stranded tinned copper

Insulation
HF (Halogen Free) compound based on polyester

Lay Up
Central textile strength member, cores laid up in concentric layers with short length of lay

Outer Sheath
PUR HFFR (Polyurethane - Halogen Free, Flame Retardant)

Core Identification
3 Core: ● Green/Yellow ● Blue ● Brown
4 Core: ● Green/Yellow ● Brown ● Black ● Grey
5 Core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey
From 6 cores: ○ white cores with ● black numbers

Sheath Colour
● Black or ● Yellow or ● Orange

STANDARDS

IEC 60228, Generally to IEC 60502, DIN VDE 0472-501, 502, 503, 508, DIN VDE 0472-401, 402, 602, 303, 615, DIN VDE 0250-1 and IEC 60502, IEC 60332-1, HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1, DIN VDE 0298-4

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 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 NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km
			Minimum	Maximum	
B7U030015**	3	1.5	6.5	7.5	118
B7U030025**	3	2.5	8.1	9.1	130
B7U040015**	4	1.5	8.1	9.1	124
B7U040025**	4	2.5	9.2	10.2	160
B7U040040**	4	4	10.3	11.5	234
B7U040060**	4	6	12.1	13.2	320
B7U04010**	4	10	15.0	16.2	520
B7U04016**	4	16	17.7	18.9	750
B7U04025**	4	25	21.1	22.5	1160
B7U04035**	4	35	25.8	27.4	1660
B7U04050**	4	50	31.0	33.0	2400
B7U050025**	5	2.5	9.8	11.0	180
B7U050040**	5	4	11.6	12.7	280
B7U050060**	5	6	14.0	15.2	420
B7U05010**	5	10	16.2	17.5	630
B7U05016**	5	16	19.4	20.6	930
B7U05025**	5	25	23.2	24.5	1380
B7U070015**	7	1.5	9.0	10.0	220
B7U070025**	7	2.5	11.5	12.7	250
B7U120015**	12	1.5	14.3	15.5	320
B7U120025**	12	2.5	16.5	17.7	470
B7U180015**	18	1.5	14.5	15.7	380
B7U180025**	18	2.5	16.7	17.9	580
B7U240015**	24	1.5	16.5	17.8	500
B7U240025**	24	2.5	19.2	20.4	770
B7U300015**	30	1.5	19.6	21.0	680
B7U300025**	30	2.5	24.9	26.5	1040

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	LAYING ON THE FLOOR Amps	FREE IN AIR Amps	REELED Amps						
			1 Layer	2 Layer	3 Layer	4 Layer	5 Layer	6 Layer	7 Layer
1.5	24	25	19	15	12	10	9	6	5
2.5	30	32	24	18	15	13	11	8	7
4	41	43	33	25	20	17	16	11	9
6	53	56	42	32	26	22	20	14	12
10	74	78	59	45	36	31	28	20	16
16	99	104	79	60	49	42	38	27	22
25	131	138	105	80	64	55	50	35	29
35	162	170	130	99	79	68	62	44	36
50	202	212	162	123	99	85	77	55	44
70	250	263	200	153	123	105	95	68	55
95	301	316	241	184	147	126	114	81	66



CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	LAYING ON THE FLOOR Amps	FREE IN AIR Amps	REELED Amps						
			1 Layer	2 Layer	3 Layer	4 Layer	5 Layer	6 Layer	7 Layer
120	352	370	282	215	172	148	134	95	77
150	404	424	323	246	198	170	154	109	89
185	461	484	369	281	226	194	175	124	101

Ambient temperature of 30°C

DE-RATING FACTORS

AMBIENT TEMPERATURE	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C
DE-RATING FACTOR	1.15	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.50	0.41

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.