

PUR-HF TROMMEL LV Reeling Cable



Eland Product Group: B7U

APPLICATION

Drum reeling cable for use under high mechanical stresses, torsion, tension and torque. Suitable as vertical drum reeling cable under moderate mechanical stresses. A strength member has been integrated to increase tensile load, acceleration and speed. PUR sheath offers protection against hydrolysis, solvents, alkalines and oils.

CHARACTERISTICS

Voltage Rating (Uo/U)
0.6/1kV

Temperature Rating
Fixed installation: -50°C to +90°C
Mobile operation: -40°C to +90°C

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

Maximum Tensile Load
20 N/mm²

Maximum Torsion
+/- 25o/m

Travel Speed
Festoon systems: up to 200m/min
Reeling applications: up to 200m/min horizontal

Minimum Distance for Change of Direction
20x Overall Diameter

CONSTRUCTION

Conductor
Class 5 flexible stranded Copper

Insulation
LSZH (Low Smoke Zero Halogen)

Lay Up
Central textile strength member, cores laid up in concentric layers

Inner Sheath
PUR-HF (Polyurethane, halogen free flame retardant)

Braid
Anti-twisting Textile braid

Outer Sheath
PUR-HF (Polyurethane, halogen free flame retardant)

Core Identification
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, DIN VDE 0293-308, IEC 60502 & VDE 0250, 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

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE 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



REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/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 mm ²	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km
			Minimum	Maximum	
B7UT040015	4	1.5	10.0	11.4	146
B7UT040025	4	2.5	11.1	12.3	202
B7UT040040	4	4	12.2	13.6	280
B7UT040060	4	6	13.3	14.9	370
B7UT04010	4	10	17.4	18.9	610
B7UT04016	4	16	20.0	22.1	852
B7UT04025	4	25	22.9	25.3	1228
B7UT04035	4	35	28.5	30.2	1760
B7UT0500215	5	1.5	10.6	11.8	172
B7UT050025	5	2.5	11.8	13.0	228
B7UT050040	5	4	13.1	14.5	324
B7UT050060	5	6	16.4	17.6	476
B7UT05010	5	10	18.7	20.5	724
B7UT05016	5	16	21.7	24.2	1030
B7UT070015	7	1.5	12.1	13.5	220
B7UT070025	7	2.5	13.5	14.7	316
B7UT120015	12	1.5	15.4	17.0	356
B7UT120025	12	2.5	18.5	20.5	552
B7UT180015	18	1.5	16.9	18.4	472
B7UT180025	18	2.5	19.2	20.4	664
B7UT240015	24	1.5	19.0	20.9	595
B7UT240025	24	2.5	21.2	23.6	884
B7UT300015	30	1.5	21.5	23.0	740
B7UT300025	30	2.5	25.4	28.2	1086
B7UT360025	36	2.5	27.0	30.0	1400
B7UT420015	42	1.5	25.0	28.5	932

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 mm²	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.