

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 (U_o/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

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 | |
| 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 |



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|---|-----------------------------|---------------------|----------------|---------|---------|---------|---------|---------|---------|
| | | | 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.