

ITC/PLTC 105°C unshielded PVC 300V Cable



Eland Product Group: ..

APPLICATION

Soft annealed bare or tinned copper conductors and PVC flame retardant insulations and jackets are the standard for 300V instrumentation installation. Constructions with Heat resistant PVC/PVC that have three or more conductors and 20 AWG or larger conductors may also be used for direct burial installations.

CHARACTERISTICS

Voltage Rating
300V

Test Voltage
Core-Core: 1500V
Core-Screen: 1500V

Temperature Rating
Fixed: -40°C +105°C
During installation: -5°C +50°C

Minimum Bending Radius
7.5 x overall diameter

CONSTRUCTION

Conductor
Plain annealed copper wires

Insulation
PVC (Polyvinyl Chloride)

Tape
Polyester tape

Sheath
PVC (Polyvinyl Chloride)

Core Identification
Pairs: ● Black ○ White numbered
Triads: ● Black ○ White numbered ● Red

Sheath Colour
● Black ● Blue

STANDARDS

UL 1685 (vertical tray), UL 13 (VW-1), IEC/EN 60332-1, IEC 60332-3-22 (CAT-A), (BS 4066 part 1&3), EN 50266-2-2 ASTM No 2 oil 70°C 4 (ICEA S-73-532), ASTM B-3, ASTM B-8, UL 1581 class 105°C, EN 50363-3 TI3, UL 13 - UL 2250

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



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 PAIRS/TRIADS	CONDUCTOR AWG	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B4U01P14AWGBK	1P	14	0.51	1.02	7.94	119
B4U01P16AWGBK	1P	16	0.38	0.89	6.48	76
B4U01P18AWGBK	1P	18	0.38	0.89	5.88	57
B4U01P20AWGBK	1P	20	0.3	0.89	5.08	40
B4U02P14AWGBK	2P	14	0.51	1.27	12.14	270
B4U02P16AWGBK	2P	16	0.38	1.27	10.14	182
B4U02P18AWGBK	2P	18	0.38	1.27	9.14	139
B4U02P20AWGBK	2P	20	0.3	1.02	7.34	86
B4U04P14AWGBK	4P	14	0.51	1.52	14.54	454
B4U04P16AWGBK	4P	16	0.38	1.27	11.74	289
B4U04P18AWGBK	4P	18	0.38	1.27	10.54	215
B4U04P20AWGBK	4P	20	0.3	1.27	8.84	147
B4U06P14AWGBK	6P	14	0.51	1.52	17.34	665
B4U06P16AWGBK	6P	16	0.38	1.52	14.44	440
B4U06P18AWGBK	6P	18	0.38	1.27	12.44	310
B4U06P20AWGBK	6P	20	0.3	1.27	10.34	207
B4U10P14AWGBK	10P	14	0.51	1.78	22.56	1128
B4U10P16AWGBK	10P	16	0.38	1.52	18.14	716
B4U10P18AWGBK	10P	18	0.38	1.52	16.14	529
B4U10P20AWGBK	10P	20	0.3	1.52	13.44	355
B4U12P14AWGBK	12P	14	0.51	1.78	23.26	1271
B4U12P16AWGBK	12P	16	0.38	1.78	19.26	837
B4U12P18AWGBK	12P	18	0.38	1.52	16.74	596
B4U12P20AWGBK	12P	20	0.3	1.52	13.84	395
B4U18P14AWGBK	18P	14	0.51	2.03	27.76	1870
B4U18P16AWGBK	18P	16	0.38	1.78	22.46	1195
B4U18P18AWGBK	18P	18	0.38	1.78	19.96	877
B4U18P20AWGBK	18P	20	0.3	1.52	16.04	556
B4U24P14AWGBK	24P	14	0.51	2.03	32.46	2525
B4U24P16AWGBK	24P	16	0.38	2.03	26.66	3220
B4U24P18AWGBK	24P	18	0.38	1.78	23.16	1176
B4U24P20AWGBK	24P	20	0.3	1.78	19.06	775
B4U50P14AWGBK	50P	14	0.51	2.29	44.08	4979
B4U50P16AWGBK	50P	16	0.38	2.29	35.98	3878
B4U50P18AWGBK	50P	18	0.38	2.03	31.36	2301
B4U50P20AWGBK	50P	20	0.3	1.78	25.16	1466
B4U01T14AWGBK	1T	14	0.51	1.02	8.34	154
B4U01T16AWGBK	1T	16	0.38	1.02	7.14	103
B4U01T18AWGBK	1T	18	0.38	0.89	6.18	73
B4U01T20AWGBK	1T	20	0.3	0.89	5.28	50
B4U02T14AWGBK	2T	14	0.51	1.27	13.44	362
B4U02T16AWGBK	2T	16	0.38	1.27	11.24	243
B4U02T18AWGBK	2T	18	0.38	1.27	10.14	181
B4U02T20AWGBK	2T	20	0.3	1.02	8.04	113
B4U04T14AWGBK	4T	14	0.51	1.52	16.14	616
B4U04T16AWGBK	4T	16	0.38	1.27	13.04	391
B4U04T18AWGBK	4T	18	0.38	1.27	11.64	289
B4U04T20AWGBK	4T	20	0.3	1.27	9.74	193



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B4U06T14AWGBK	6T	14	0.51	1.78	19.86	940
B4U06T16AWGBK	6T	16	0.38	1.52	16.04	599
B4U06T18AWGBK	6T	18	0.38	1.52	14.34	441
B4U06T20AWGBK	6T	20	0.3	1.27	11.54	277
B4U08T14AWGBK	8T	14	0.51	1.78	22.36	1215
B4U08T16AWGBK	8T	16	0.38	1.52	18.04	771
B4U08T18AWGBK	8T	18	0.38	1.52	16.04	567
B4U08T20AWGBK	8T	20	0.3	1.27	12.84	358
B4U10T14AWGBK	10T	14	0.51	1.78	25.16	1544
B4U10T16AWGBK	10T	16	0.38	1.78	20.86	1011
B4U10T18AWGBK	10T	18	0.38	1.52	18.04	714
B4U10T20AWGBK	10T	20	0.3	1.52	14.94	475
B4U12T14AWGBK	12T	14	0.51	1.78	26.16	1759
B4U12T16AWGBK	12T	16	0.38	1.78	21.56	1146
B4U12T18AWGBK	12T	18	0.38	1.52	18.64	810
B4U12T20AWGBK	12T	20	0.3	1.52	15.44	534
B4U16T14AWGBK	16T	14	0.51	2.03	29.56	2305
B4U16T16AWGBK	16T	16	0.38	1.78	23.86	1472
B4U16T18AWGBK	16T	18	0.38	1.78	21.16	1070
B4U16T20AWGBK	16T	20	0.3	1.78	17.04	678
B4U18T14AWGBK	18T	14	0.51	2.03	31.16	2584
B4U18T16AWGBK	18T	16	0.38	1.78	25.16	1646
B4U18T18AWGBK	18T	18	0.38	1.78	22.36	1191
B4U18T20AWGBK	18T	20	0.3	1.78	17.94	756
B4U24T14AWGBK	24T	14	0.51	2.29	37.08	3551
B4U24T16AWGBK	24T	16	0.38	2.03	29.96	2267
B4U24T18AWGBK	24T	18	0.38	1.78	26.06	1612
B4U24T20AWGBK	24T	20	0.3	1.78	21.36	1052
B4U50T14AWGBK	50T	14	0.51	2.29	49.78	6945
B4U50T16AWGBK	50T	16	0.38	2.29	40.88	4470
B4U50T18AWGBK	50T	18	0.38	2.03	35.26	3177
B4U50T20AWGBK	50T	20	0.3	2.03	28.76	2056

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA AWG	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C Ω/kft	INSULATION RESISTANCE AT 15.6°C MΩxkft
14	2.71	100.1
16	4.36	100.1
18	6.95	100.1
20	10.92	100.1