

ITC/PLTC 105°C PVC Individual and Collective Shield 300V Cable



Eland Product Group: B4U

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 (7-stranded)

Insulation

PVC (Polyvinyl Chloride)

Individual shield

Aluminum tape, tinned copper drain wire.

Tape

Polyester tape

Overall shield

Aluminum tape, tinned copper drain wire.

Communication Wire

Stranded plain annealed copper wire, size AWG 22,
PVC insulated colored ● Orange

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

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 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 634267





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
B4UI02P14AWGBK	2P	14	0.51	1.27	13.44	324
B4UI02P16AWGBK	2P	16	0.38	1.27	11.34	226
B4UI02P18AWGBK	2P	18	0.38	1.27	10.24	177
B4UI02P20AWGBK	2P	20	0.3	1.02	8.34	117
B4UI04P14AWGBK	4P	14	0.51	1.52	16.14	538
B4UI04P16AWGBK	4P	16	0.38	1.27	13.04	354
B4UI04P18AWGBK	4P	18	0.38	1.27	11.84	271
B4UI04P20AWGBK	4P	20	0.3	1.27	10.04	194
B4UI06P14AWGBK	6P	14	0.51	1.52	19.34	785
B4UI06P16AWGBK	6P	16	0.38	1.52	16.14	532
B4UI06P18AWGBK	6P	18	0.38	1.27	14.04	389
B4UI06P20AWGBK	6P	20	0.3	1.27	11.84	275
B4UI10P14AWGBK	10P	14	0.51	1.78	25.16	1335
B4UI10P16AWGBK	10P	16	0.38	1.52	20.34	870
B4UI10P18AWGBK	10P	18	0.38	1.52	18.24	662
B4UI10P20AWGBK	10P	20	0.3	1.52	15.44	464
B4UI12P14AWGBK	12P	14	0.51	1.78	26.06	1499
B4UI12P16AWGBK	12P	16	0.38	1.52	21.04	979
B4UI12P18AWGBK	12P	18	0.38	1.52	18.84	741
B4UI12P20AWGBK	12P	20	0.3	1.52	15.84	518
B4UI18P14AWGBK	18P	14	0.51	1.78	30.46	2151
B4UI18P16AWGBK	18P	16	0.38	1.78	25.16	1441
B4UI18P18AWGBK	18P	18	0.38	1.78	22.46	1089
B4UI18P20AWGBK	18P	20	0.3	1.52	18.44	729
B4UI20P14AWGBK	20P	14	0.51	2.03	32.76	2445
B4UI20P16AWGBK	20P	16	0.38	1.78	26.56	1600
B4UI20P18AWGBK	20P	18	0.38	1.78	23.76	1206
B4UI20P20AWGBK	20P	20	0.3	1.78	23.76	815
B4UI24P14AWGBK	24P	14	0.51	2.03	36.36	2969
B4UI24P16AWGBK	24P	16	0.38	2.03	29.96	1982
B4UI24P18AWGBK	24P	18	0.38	1.78	26.26	1463
B4UI24P20AWGBK	24P	20	0.3	1.78	26.06	1015
B4UI50P14AWGBK	50P	14	0.51	2.29	49.38	5842
B4UI50P16AWGBK	50P	16	0.38	2.29	40.48	3876
B4UI50P18AWGBK	50P	18	0.38	2.03	35.56	2857
B4UI50P20AWGBK	50P	20	0.3	1.78	29.06	1930
B4UI02T14AWGBK	2T	14	0.51	1.27	14.84	429
B4UI02T16AWGBK	2T	16	0.38	1.27	12.54	291
B4UI02T18AWGBK	2T	18	0.38	1.27	11.24	230
B4UI02T20AWGBK	2T	20	0.3	1.02	9.04	149
B4UI04T14AWGBK	4T	14	0.51	1.52	17.74	718
B4UI04T16AWGBK	4T	16	0.38	1.27	14.54	465
B4UI04T18AWGBK	4T	18	0.38	1.27	12.94	355
B4UI04T20AWGBK	4T	20	0.3	1.27	10.94	249
B4UI06T14AWGBK	6T	14	0.51	1.52	21.34	1056
B4UI06T16AWGBK	6T	16	0.38	1.52	17.94	706
B4UI06T18AWGBK	6T	18	0.38	1.27	15.44	516
B4UI06T20AWGBK	6T	20	0.3	1.27	12.94	359



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B4UI08T14AWGBK	8T	14	0.51	1.78	24.56	1411
B4UI08T16AWGBK	8T	16	0.38	1.52	20.14	911
B4UI08T18AWGBK	8T	18	0.38	1.52	17.84	696
B4UI08T20AWGBK	8T	20	0.3	1.27	14.44	460
B4UI10T14AWGBK	10T	14	0.51	1.78	27.86	1792
B4UI10T16AWGBK	10T	16	0.38	1.52	22.84	1160
B4UI10T18AWGBK	10T	18	0.38	1.52	20.24	879
B4UI10T20AWGBK	10T	20	0.3	1.52	16.84	602
B4UI12T14AWGBK	12T	14	0.51	1.78	28.86	2030
B4UI12T16AWGBK	12T	16	0.38	1.78	24.16	1349
B4UI12T18AWGBK	12T	18	0.38	1.52	20.84	990
B4UI12T20AWGBK	12T	20	0.3	1.52	17.34	677
B4UI16T14AWGBK	16T	14	0.51	1.78	32.06	2609
B4UI16T16AWGBK	16T	16	0.38	1.78	26.76	1728
B4UI16T20AWGBK	16T	20	0.3	1.52	19.24	860
B4UI18T14AWGBK	18T	14	0.51	2.03	34.36	2975
B4UI18T16AWGBK	18T	16	0.38	1.78	28.26	1935
B4UI18T18AWGBK	18T	18	0.38	1.78	24.96	1453
B4UI18T20AWGBK	18T	20	0.3	1.52	26.36	962
B4UI24T14AWGBK	24T	14	0.51	2.03	40.36	4038
B4UI24T16AWGBK	24T	16	0.38	2.03	33.66	2661
B4UI24T18AWGBK	24T	18	0.38	1.78	29.16	1972
B4UI24T20AWGBK	24T	20	0.3	1.78	24.16	1338
B4UI50T14AWGBK	50T	14	0.51	2.29	55.08	7990
B4UI50T16AWGBK	50T	16	0.38	2.29	45.68	5233
B4UI50T18AWGBK	50T	18	0.38	2.03	39.66	3862
B4UI50T20AWGBK	50T	20	0.3	1.78	32.06	2564

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA AWG	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C Ω/kft	CAPACITANCE (800 HZ) pF/ft	INSULATION RESISTANCE AT 15.6°C MΩ·kft
14	2.71	51.8	100.1
16	4.36	51.8	100.1
18	6.95	51.8	100.1
20	10.92	51.8	100.1