



# ITC/PLTC 105°C PVC with Overall 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

### Insulation

PVC (Polyvinyl Chloride)

### Tape

Polyester tape

### Overall shield

Plastic coated aluminum tape

### Drain Wire

Tinned Copper

### 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
B4UC01P14AWGBK	1P	14	0.51	1.02	8.04	128
B4UC01P16AWGBK	1P	16	0.38	0.89	6.58	83
B4UC01P18AWGBK	1P	18	0.38	0.89	5.98	65
B4UC01P20AWGBK	1P	20	0.3	0.89	5.18	47
B4UC02P14AWGBK	2P	14	0.51	1.27	12.24	280
B4UC02P16AWGBK	2P	16	0.38	1.27	10.24	191
B4UC02P18AWGBK	2P	18	0.38	1.27	9.24	148
B4UC02P20AWGBK	2P	20	0.3	1.02	7.44	94
B4UC04P14AWGBK	4P	14	0.51	1.52	14.64	465
B4UC04P16AWGBK	4P	16	0.38	1.27	11.84	298
B4UC04P18AWGBK	4P	18	0.38	1.27	10.64	224
B4UC04P20AWGBK	4P	20	0.3	1.27	8.94	156
B4UC06P14AWGBK	6P	14	0.51	1.52	17.44	676
B4UC06P16AWGBK	6P	16	0.38	1.52	14.54	451
B4UC06P18AWGBK	6P	18	0.38	1.27	12.54	319
B4UC06P20AWGBK	6P	20	0.3	1.27	10.44	215
B4UC08P14AWGBK	8P	14	0.51	1.78	20.06	901
B4UC08P16AWGBK	8P	16	0.38	1.52	16.24	577
B4UC08P18AWGBK	8P	18	0.38	1.52	14.54	430
B4UC08P20AWGBK	8P	20	0.3	1.27	11.64	272
B4UC10P14AWGBK	10P	14	0.51	1.78	22.66	1141
B4UC10P16AWGBK	10P	16	0.38	1.52	18.24	727
B4UC10P18AWGBK	10P	18	0.38	1.52	16.24	538
B4UC10P20AWGBK	10P	20	0.3	1.52	13.54	365
B4UC12P14AWGBK	12P	14	0.51	1.78	23.36	1284
B4UC12P16AWGBK	12P	16	0.38	1.78	19.36	848
B4UC12P18AWGBK	12P	18	0.38	1.52	16.84	606
B4UC12P20AWGBK	12P	20	0.3	1.52	13.94	404
B4UC16P14AWGBK	16P	14	0.51	1.78	25.96	1646
B4UC16P16AWGBK	16P	16	0.38	1.78	21.46	1080
B4UC16P18AWGBK	16P	18	0.38	1.78	19.06	798
B4UC16P20AWGBK	16P	20	0.3	1.78	15.34	511
B4UC18P14AWGBK	18P	14	0.51	2.03	27.86	1884
B4UC18P16AWGBK	18P	16	0.38	1.78	22.56	1208
B4UC18P18AWGBK	18P	18	0.38	1.78	20.06	889
B4UC18P20AWGBK	18P	20	0.3	1.52	16.14	569
B4UC24P14AWGBK	24P	14	0.51	2.03	32.56	2542
B4UC24P16AWGBK	24P	16	0.38	2.03	26.76	1663
B4UC24P18AWGBK	24P	18	0.38	1.78	23.26	1189
B4UC24P20AWGBK	24P	20	0.3	1.78	19.16	787
B4UC50P14AWGBK	50P	14	0.51	2.29	44.18	5000
B4UC50P16AWGBK	50P	16	0.38	2.29	36.08	3239
B4UC50P18AWGBK	50P	18	0.38	2.03	31.46	2318
B4UC50P20AWGBK	50P	20	0.3	1.78	25.26	1480
B4UC01T14AWGBK	1T	14	0.51	1.02	8.44	162
B4UC01T16AWGBK	1T	16	0.38	1.02	7.24	111
B4UC01T18AWGBK	1T	18	0.38	0.89	6.28	80
B4UC01T20AWGBK	1T	20	0.3	0.89	5.38	57



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B4UC02T14AWGBK	2T	14	0.51	1.27	13.54	373
B4UC02T16AWGBK	2T	16	0.38	1.27	11.34	253
B4UC02T18AWGBK	2T	18	0.38	1.27	10.24	190
B4UC02T20AWGBK	2T	20	0.3	1.02	8.14	122
B4UC04T14AWGBK	4T	14	0.51	1.52	16.24	629
B4UC04T16AWGBK	4T	16	0.38	1.27	13.14	403
B4UC04T18AWGBK	4T	18	0.38	1.27	11.74	298
B4UC04T20AWGBK	4T	20	0.3	1.27	9.84	202
B4UC06T14AWGBK	6T	14	0.51	1.78	19.96	955
B4UC06T16AWGBK	6T	16	0.38	1.52	16.14	612
B4UC06T18AWGBK	6T	18	0.38	1.52	14.44	454
B4UC06T20AWGBK	6T	20	0.3	1.27	11.64	287
B4UC08T14AWGBK	8T	14	0.51	1.78	22.46	1232
B4UC08T16AWGBK	8T	16	0.38	1.52	18.14	786
B4UC08T18AWGBK	8	18	0.38	1.52	16.14	580
B4UC08T20AWGBK	8T	20	0.3	1.27	12.94	369
B4UC10T14AWGBK	10T	14	0.51	1.78	25.36	1563
B4UC10T16AWGBK	10T	16	0.38	1.78	20.96	1028
B4UC10T18AWGBK	10T	18	0.38	1.52	18.14	730
B4UC10T20AWGBK	10T	20	0.3	1.52	15.04	487
B4UC12T14AWGBK	12T	14	0.51	1.78	26.26	1776
B4UC12T16AWGBK	12T	16	0.38	1.78	21.66	1163
B4UC12T18AWGBK	12T	18	0.38	1.52	18.74	823
B4UC12T20AWGBK	12T	20	0.3	1.52	15.54	547
B4UC16T14AWGBK	16T	14	0.51	2.03	29.66	2324
B4UC16T16AWGBK	16T	16	0.38	1.78	23.96	1490
B4UC16T18AWGBK	16T	18	0.38	1.78	21.26	1086
B4UC16T20AWGBK	16T	20	0.3	1.52	17.14	692
B4UC18T14AWGBK	18T	14	0.51	2.03	31.26	2605
B4UC18T16AWGBK	18T	16	0.38	1.78	25.26	1665
B4UC18T18AWGBK	18T	18	0.38	1.78	22.46	1210
B4UC18T20AWGBK	18T	20	0.3	1.52	18.04	768
B4UC24T14AWGBK	24T	14	0.51	2.29	37.18	3576
B4UC24T16AWGBK	24T	16	0.38	2.03	30.06	2288
B4UC24T18AWGBK	24T	18	0.38	1.78	26.16	1631
B4UC24T20AWGBK	24T	20	0.3	1.78	21.46	1070
B4UC50T14AWGBK	50T	14	0.51	2.29	49.88	6976
B4UC50T16AWGBK	50T	16	0.38	2.29	40.68	4497
B4UC50T18AWGBK	50T	18	0.38	2.03	35.36	3201
B4UC50T20AWGBK	50T	20	0.3	2.03	28.86	2075

## 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 MΩxkft
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