

Canadian ALPETH

BHBB, BHAB, BKMB and BKTB



SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Color coded solid polyolefin
Twisted Pairs	Insulated conductors twisted to pairs with varying lays
≤ 25-Pair Core	Assembled in concentric layers to form a cylindrical core
≥ 50-Pair Core	Assembled from concentrically formed units with 25-pair per unit; these may be stranded into 50-pair or 100-pair groups, which are then cabled to form the complete cylindrical core assembly
≥ 1,200-Pair Core	Color code is Mirror Image design
Core Covering	Non-hygroscopic core wrap applied over assembled core
Shield	Electrically continuous 8 mil flat aluminum shielding tape with polyolefin film fused and chemically bonded to both sides; applied longitudinally over the core and bonded to the outer jacket
Jacket	Black, medium-density polyethylene
Jacket Marking	Manufacturer's identification, date of jacketing, gauge, pair count, sequential length and cable type marked at 1 meter intervals
Standards Compliance	RoHS-compliant

PRODUCT DESCRIPTION

Superior Essex ALPETH Cables are designed primarily for aerial use. In this application, the cable must be attached to a support strand (messenger). If the cable is to be placed in a duct, the cable must be pressurized.

FEATURES

- Twisted pairs with varying lays
- Non-hygroscopic core wrap applied over assembled core
- Black, medium-density polyethylene jacket

BENEFITS

- Minimizes crosstalk and meets capacitance unbalance limitations
- Furnishes mechanical as well as high dielectric protection between shielding and individual conductors
- Provides a tough, flexible protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

Number of Pairs	Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)	Capacitance Unbalance Pair to Pair @ 1 kHz		Capacitance Unbalance Pair to Ground @ 1 kHz	
		Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)

Conductor Size AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance @ 68°F (20°C) Ohms/sheath kft (km)	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts Minimum	
				Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.3 (10.8)	8.5 (28.0)	1.5	5.0	5,000	10,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	17.3 (56.6)	1.5	5.0	4,000	10,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	26.1 (85.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.4 (24.3)	44.0 (144.2)	1.5	5.0	2,400	10,000

	Minimum Near End Crosstalk (NEXT) dB/kft (dB/km)	
	@ 150 kHz	@ 772 kHz
PSWUNEXT Mean	58 (190)	47 (154)
PSWUNEXT Worst Pair	53 (174)	42 (138)

Conductor Size AWG (mm)	Minimum Far End Crosstalk dB/kft (dB/km)			
	PSELFEXT @ 150 kHz		PSELFEXT @ 772 kHz	
	Mean	Worst Pair	Mean	Worst Pair
19 (0.90)	65 (213)	59 (194)	51 (167)	45 (148)
22 (0.64)	63 (207)	57 (187)	49 (161)	43 (141)
24 (0.51)	63 (207)	57 (187)	49 (161)	43 (141)
26 (0.40)	61 (200)	57 (187)	47 (154)	43 (141)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight lbs (kg)	Reel Size F x T x D in
85-031-01	BHBB	25	19 (0.90)	0.74 (19)	310 (460)	4,593 (1,400)	1,625 (740)	52 x 25 x 20
85-034-01	BHBB	50	19 (0.90)	0.98 (25)	565 (840)	4,593 (1,400)	2,965 (1,345)	65 x 30 x 32
85-038-01	BHBB	100	19 (0.90)	1.31 (33)	1,060 (1,580)	3,002 (915)	3,470 (1,575)	62 x 30 x 24
85-042-01	BHBB	200	19 (0.90)	1.84 (47)	2,075 (3,090)	1,492 (455)	3,385 (1,535)	62 x 30 x 24
85-062-01	BHAB	25	22 (0.64)	0.59 (15)	180 (270)	5,724 (1,745)	1,195 (540)	46 x 25 x 20
85-065-01	BHAB	50	22 (0.64)	0.75 (19)	310 (460)	5,724 (1,745)	2,020 (915)	58 x 25 x 20
85-069-01	BHAB	100	22 (0.64)	1.00 (25)	570 (850)	4,593 (1,400)	2,905 (1,320)	62 x 30 x 24
85-073-01	BHAB	200	22 (0.64)	1.35 (34)	1,080 (1,605)	3,412 (1,040)	4,300 (1,950)	72 x 35 x 36
85-075-01	BHAB	300	22 (0.64)	1.64 (42)	1,595 (2,375)	2,182 (665)	4,095 (1,855)	72 x 35 x 36
85-077-01	BHAB	400	22 (0.64)	1.86 (47)	2,105 (3,135)	2,132 (650)	5,100 (2,315)	72 x 35 x 36
85-081-01	BHAB	600	22 (0.64)	2.27 (58)	3,135 (4,665)	1,410 (430)	5,035 (2,285)	72 x 35 x 36
85-083-01	BHAB	900	22 (0.64)	2.74 (70)	4,640 (6,905)	688 (210)	3,805 (1,725)	72 x 35 x 36
85-097-01	BKMB	25	24 (0.51)	0.50 (13)	125 (185)	4,593 (1,400)	680 (310)	44 x 18 x 20
85-100-01	BKMB	50	24 (0.51)	0.63 (16)	215 (320)	4,593 (1,400)	1,155 (525)	46 x 25 x 20
85-104-01	BKMB	100	24 (0.51)	0.81 (21)	380 (565)	4,593 (1,400)	1,950 (885)	52 x 25 x 20
85-108-01	BKMB	200	24 (0.51)	1.09 (28)	705 (1,050)	4,593 (1,400)	3,605 (1,635)	65 x 30 x 32
85-110-01	BKMB	300	24 (0.51)	1.30 (33)	1,025 (1,525)	1,838 (560)	2,085 (945)	52 x 25 x 20
85-112-01	BKMB	400	24 (0.51)	1.50 (38)	1,355 (2,015)	1,492 (455)	2,265 (1,030)	58 x 25 x 20
85-116-01	BKMB	600	24 (0.51)	1.81 (46)	2,010 (2,990)	1,264 (385)	2,830 (1,285)	62 x 30 x 24
85-118-01	BKMB	900	24 (0.51)	2.17 (55)	2,970 (4,420)	1,182 (360)	4,125 (1,870)	72 x 35 x 36
85-120-01	BKMB	1,200	24 (0.51)	2.49 (63)	3,915 (5,825)	952 (290)	4,340 (1,970)	72 x 35 x 36
85-147-01	BKTB	400	26 (0.40)	1.21 (31)	870 (1,295)	2,624 (800)	2,530 (1,145)	58 x 25 x 20
85-151-01	BKTB	600	26 (0.40)	1.45 (37)	1,290 (1,920)	2,394 (730)	3,455 (1,570)	65 x 30 x 32
85-153-01	BKTB	900	26 (0.40)	1.74 (44)	1,900 (2,830)	1,526 (465)	3,270 (1,485)	65 x 30 x 32
85-157-01	BKTB	1,800	26 (0.40)	2.43 (62)	3,705 (5,515)	1,312 (400)	5,560 (2,520)	78 x 40 x 39