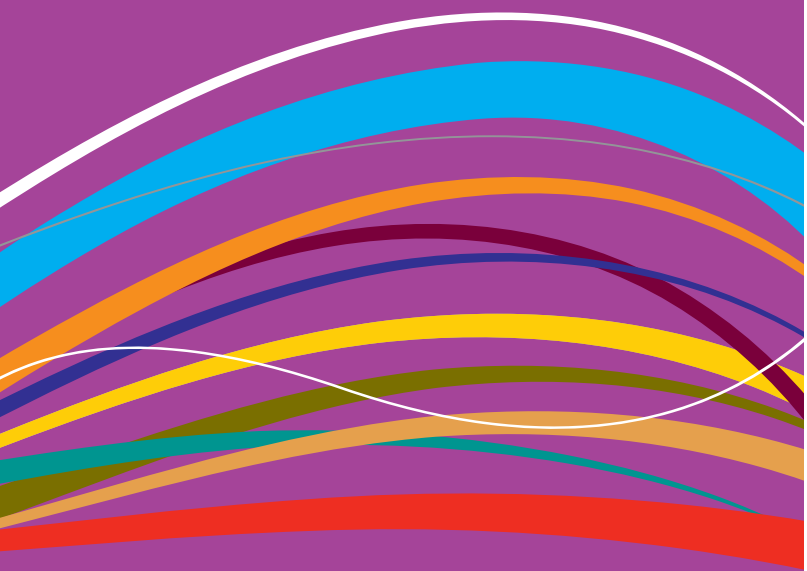




TABLE OF CONTENTS

CELLFIL BJBB, BJAB, BJMB and BJTB.....	I-2
Canadian ALPETH BHBB, BHAB, BKMB and BKTB.....	I-4
SEALPAP BHBF, BHAF, BKMF and BKTf.....	I-6
Canadian Bonded STALPETH DCAZ, DCMZ and DCTZ.....	I-8
Canadian Self Support BHBS-BC, BHAS-BC and BKMS-BC.....	I-10
Aerial Drop Wire ADW.....	I-11
Canadian Integrated Messenger Wire IM/F, IM/H and IM/G.....	I-12
Canadian ADP NMS with QuickCount® in Meters.....	I-13
Buried Distribution Wire BCBD.....	I-14



CELFIL

BJBB, BJAB, BJMB and BJTB



SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Dual-extruded cellular inner layer and color coded solid polyolefin skin
Twisted Pairs	Insulated conductors twisted to form 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
Filling Compound	PEPJ compound applied to cable core which completely coats each insulated conductor and fills interstices between pairs and units
Core	Non-hygroscopic core wrap applied over assembled core
Flooding Compound	Applied to fill all voids under shield
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
Rip cord	Placed parallel to core
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 CELFIL Cable with foam skin insulation is a single jacketed design for use in duct or direct burial installations.

FEATURES

- Twisted pairs with varying lays
- Non-hygroscopic core wrap applied over assembled core
- Rip cord placed parallel to 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
- Facilitates easy jacket removal
- 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 @ 1000 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)	3.2 (10.5)	8.5 (28.0)	1.5	5.0	4,500	10,000
22 (0.64)	1.0 (1.6)	4.5 (14.8)	17.3 (56.6)	1.5	5.0	3,600	10,000
24 (0.51)	1.0 (1.6)	5.6 (18.4)	26.1 (85.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.0 (23.0)	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
85-026-13	BJBB	6	19 (0.90)	0.49 (12)	120 (180)	4,593 (1,400)	660 (300)	44 x 18 x 20
85-028-13	BJBB	12	19 (0.90)	0.58 (15)	190 (285)	4,593 (1,400)	1,040 (470)	46 x 25 x 20
85-031-13	BJBB	25	19 (0.90)	0.77 (20)	355 (530)	7,924 (2,415)	3,100 (1,410)	62 x 30 x 24
85-034-13	BJBB	50	19 (0.90)	1.03 (26)	655 (975)	4,593 (1,400)	3,295(1,500)	62 x 30 x 24
85-038-13	BJBB	100	19 (0.90)	1.37 (35)	1,225 (1,825)	3,002 (915)	3,965 (1,800)	62 x 30 x 24
85-042-13	BJBB	200	19 (0.90)	1.92 (49)	2,420 (3,600)	1,558 (475)	4,385 (1,990)	72 x 35 x 36
85-057-13	BJAB	6	22 (0.64)	0.38 (9.7)	70 (105)	9,186 (2,800)	750 (340)	44 x 18 x 20
85-059-13	BJAB	12	22 (0.64)	0.47 (12)	115 (170)	9,186 (2,800)	1,220 (555)	46 x 25 x 20
85-061-13	BJAB	18	22 (0.64)	0.53 (14)	155 (230)	4,593 (1,400)	820 (370)	44 x 18 x 20
85-062-13	BJAB	25	22 (0.64)	0.60 (15)	200 (300)	9,186 (2,800)	2,080 (945)	58 x 25 x 20
85-065-13	BJAB	50	22 (0.64)	0.76 (19)	350 (520)	6,004 (1,830)	2,345 (1,065)	58 x 25 x 20
85-069-13	BJAB	100	22 (0.64)	1.02 (26)	650 (965)	4,593 (1,400)	3,275 (1,485)	62 x 30 x 24
85-073-13	BJAB	200	22 (0.64)	1.37 (35)	1,225 (1,825)	2,608 (795)	3,565 (1,615)	65 x 30 x 32
85-075-13	BJAB	300	22 (0.64)	1.66 (42)	1,815 (2,700)	2,182 (665)	4,575 (2,075)	72 x 35 x 36
85-077-13	BJAB	400	22 (0.64)	1.88 (48)	2,375 (3,535)	1,952 (595)	5,335 (2,420)	78 x 40 x 39
85-081-13	BJAB	600	22 (0.64)	2.29 (58)	3,545 (5,275)	1,542 (470)	6,165 (2,795)	78 x 40 x 39
85-083-13	BJAB	900	22 (0.64)	2.75 (70)	5,225 (7,775)	854 (260)	5,075 (2,305)	72 x 35 x 36
85-085-13	BJAB	1,200	22 (0.64)	3.18 (81)	6,950 (10,364)	620 (190)	7,113 (3,226)	96 x 42 x 56
85-092-13	BJMB	6	24 (0.51)	0.35 (8.9)	60 (90)	4,593 (1,400)	320 (145)	30 x 18 x 12
85-094-13	BJMB	12	24 (0.51)	0.41 (10)	85 (125)	4,593 (1,400)	455 (205)	36 x 18 x 14
85-097-13	BJMB	25	24 (0.51)	0.52 (13)	140 (210)	4,593 (1,400)	750 (340)	44 x 18 x 20
85-100-13	BJMB	50	24 (0.51)	0.65 (17)	240 (355)	8,792 (2,680)	2,355 (1,070)	58 x 25 x 20
85-104-13	BJMB	100	24 (0.51)	0.84 (21)	430 (640)	6,578 (2,005)	3,115 (1,415)	62 x 30 x 24
85-108-13	BJMB	200	24 (0.51)	1.14 (29)	810 (1,205)	5,232 (1,595)	4,850 (2,205)	72 x 35 x 36
85-110-13	BJMB	300	24 (0.51)	1.36 (35)	1,180 (1,755)	3,724 (1,135)	5,010 (2,270)	72 x 35 x 36
85-112-13	BJMB	400	24 (0.51)	1.55 (39)	1,555 (2,315)	2,888 (880)	5,105 (2,320)	72 x 35 x 36
85-116-13	BJMB	600	24 (0.51)	1.88 (48)	2,305 (3,430)	1,838 (560)	4,850 (2,205)	72 x 35 x 36
85-118-13	BJMB	900	24 (0.51)	2.26 (57)	3,385 (5,040)	1,280 (390)	4,945 (2,250)	72 x 35 x 36
85-120-13	BJMB	1,200	24 (0.51)	2.57 (65)	4,450 (6,625)	1,280 (390)	6,395 (2,905)	78 x 40 x 39
85-121-13	BJMB	1,500	24 (0.51)	2.85 (72)	5,515 (8,210)	1,050 (320)	6,490 (2,950)	78 x 40 x 39
85-124-13	BJMB	1,800	24 (0.51)	3.11 (79)	6,575 (9,785)	688 (210)	5,225 (2,370)	78 x 40 x 39
85-132-13	BJTB	25	26 (0.40)	0.44 (11)	100 (150)	4,593 (1,400)	525 (235)	36 x 18 x 14
85-135-13	BJTB	50	26 (0.40)	0.55 (14)	165 (245)	4,593 (1,400)	865 (395)	44 x 18 x 20
85-139-13	BJTB	100	26 (0.40)	0.70 (18)	290 (430)	4,593 (1,400)	1,535 (695)	52 x 25 x 20
85-143-13	BJTB	200	26 (0.40)	0.94 (24)	535 (795)	4,593 (1,400)	2,745 (1,245)	62 x 30 x 24
85-145-13	BJTB	300	26 (0.40)	1.09 (28)	755 (1,125)	2,624 (800)	2,225 (1,010)	58 x 25 x 20
85-147-13	BJTB	400	26 (0.40)	1.25 (32)	995 (1,480)	2,624 (800)	2,855 (1,295)	58 x 25 x 20
85-151-13	BJTB	600	26 (0.40)	1.50 (38)	1,465 (2,180)	1,738 (530)	2,835 (1,285)	62 x 30 x 24
85-153-13	BJTB	900	26 (0.40)	1.79 (46)	2,145 (3,190)	1,722 (525)	3,980 (1,805)	62 x 30 x 24
85-155-13	BJTB	1,200	26 (0.40)	2.03 (52)	2,805 (4,175)	1,264 (385)	4,160 (1,885)	72 x 35 x 36
85-156-13	BJTB	1,500	26 (0.40)	2.29 (58)	3,515 (5,230)	1,246 (380)	4,995 (2,265)	72 x 35 x 36
85-157-13	BJTB	1,800	26 (0.40)	2.50 (64)	4,200 (6,250)	1,214 (370)	5,800 (2,630)	78 x 40 x 39
85-158-13	BJTB	2,100	26 (0.40)	2.69 (68)	4,885 (7,270)	1,182 (360)	6,475 (2,935)	78 x 40 x 39
85-159-13	BJTB	2,400	26 (0.40)	2.85 (72)	5,540 (8,245)	1,000 (305)	6,240 (2,830)	78 x 40 x 39
85-161-13	BJTB	2,700	26 (0.40)	3.01 (77)	6,200 (9,225)	1,000 (305)	6,900 (3,130)	78 x 40 x 39

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	BENEFITS
<ul style="list-style-type: none"> Twisted pairs with varying lays Non-hygroscopic core wrap applied over assembled core Black, medium-density polyethylene jacket 	<ul style="list-style-type: none"> 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 @ 1000 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
85-026-01	BHBB	6	19 (0.90)	0.47 (12)	105 (155)	4,593 (1,400)	590 (270)	44 x 18 x 20
85-028-01	BHBB	12	19 (0.90)	0.56 (14)	170 (255)	4,593 (1,400)	945 (430)	46 x 25 x 20
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
85-057-01	BHAB	6	22 (0.64)	0.38 (9.7)	65 (95)	4,593 (1,400)	345 (155)	30 x 18 x 12
85-059-01	BHBB	12	22 (0.64)	0.45 (11)	100 (150)	4,593 (1,400)	525 (235)	36 x 18 x 14
85-062-01	BHBB	25	22 (0.64)	0.59 (15)	180 (270)	5,724 (1,745)	1,195 (540)	46 x 25 x 20
85-065-01	BHBB	50	22 (0.64)	0.75 (19)	310 (460)	5,724 (1,745)	2,020 (915)	58 x 25 x 20
85-069-01	BHBB	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	BHBB	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	BHBB	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	BHBB	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	BHBB	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	BHBB	900	22 (0.64)	2.74 (70)	4,640 (6,905)	688 (210)	3,805 (1,725)	72 x 35 x 36
85-092-01	BKMB	6	24 (0.51)	0.34 (8.6)	50 (75)	4,593 (1,400)	275 (125)	30 x 18 x 12
85-094-01	BKMB	12	24 (0.51)	0.40 (10)	75 (110)	4,593 (1,400)	410 (185)	36 x 18 x 14
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
85-132-01	BKTB	25	26 (0.40)	0.43 (11)	90 (135)	4,593 (1,400)	475 (215)	36 x 18 x 14
85-135-01	BKTB	50	26 (0.40)	0.53 (14)	150 (225)	4,822 (1,470)	830 (375)	44 x 18 x 20
85-139-01	BKTB	100	26 (0.40)	0.68 (17)	255 (380)	4,593 (1,400)	1,335 (605)	46 x 25 x 20
85-143-01	BKTB	200	26 (0.40)	0.91 (23)	465 (690)	4,593 (1,400)	2,380 (1,080)	58 x 25 x 20
85-145-01	BKTB	300	26 (0.40)	1.05 (27)	665 (990)	2,624 (800)	1,950 (885)	52 x 25 x 20
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
85-155-01	BKTB	1,200	26 (0.40)	1.98 (50)	2,495 (3,715)	1,460 (445)	4,255 (1,930)	72 x 35 x 36
85-156-01	BKTB	1,500	26 (0.40)	2.23 (57)	3,105 (4,620)	1,000 (305)	3,720 (1,685)	72 x 35 x 36
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

PREMISES COPPER

PREMISES FIBER

OSP FIBER

OSP COMPOSITE

CENTRAL OFFICE COPPER

RDUP/RUS OSP COPPER

BELL OSP COPPER

OSP COPPER WIRE

CANADIAN OSP COPPER

TECHNICAL INFO

SEALPAP

BHBF, BHAf, BKMF and BKTF



SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Conductors are insulated with solid polyolefin in distinctive colors to facilitate pair identification
Twisted Pairs	Insulated conductors twisted to pairs with varying lays
≤ 25-Pair Core	Pairs are combined into a cylindrical core
≥ 50-Pair Core	Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders
≥ 1,200-Pair Core	Color code is Mirror Image design
Core Wrap	Non-hygroscopic dielectric material
Inner Jacket	Polyethylene
Rip cords	Placed between the core wrap and the inner jacket and between the inner jacket and shield
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
Outer Jacket	Black, medium-density polyethylene
Jacket Marking	Manufacturer's identification, plant location, date of jacketing, pair count, AWG, product identification, sequential length markings in meters and telephone handset
Standards Compliance	Telcordia GR-421-CORE ANSI/ICEA S-85-625-2007 RoHS-compliant

PRODUCT DESCRIPTION

Double jacketed air core cable, commonly called "SEALPAP," is a solid-insulated design intended for use in Outside Plant (OSP) where a greater risk of physical damage exists. The inner jacket provides protection to the cable core in the event of severe damage to the outer protective sheath.

FEATURES

- Twisted pairs with varying lays
- Core wrap
- Inner jacket
- Outer jacket bonded to shield

BENEFITS

- Minimizes crosstalk and meets capacitance unbalance limitations
- Protects core and helps provide core-to-shield dielectric strength
- Provides protection against mechanical damage and helps prevent the ingress of moisture
- Provides a tough, flexible protective covering that withstands exposure to sunlight, atmospheric temperatures, and stresses expected in standard installations
- Bonding provides additional moisture resistance

ELECTRICAL SPECIFICATIONS

Number of Pairs	Average Mutual Capacitance @ 1000 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 ± 4 (52 ± 2)	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)	45 (28.0)	1.5	5.0	5,000	20,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91 (56.6)	1.5	5.0	4,000	20,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144 (89.5)	1.5	5.0	3,000	20,000
26 (0.40)	1.0 (1.6)	7.4 (24.3)	232 (144.2)	1.5	5.0	2,400	20,000

	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)	Steel Reel Size F x T x D in
85-031-41	BHBF	25	19 (0.90)	0.84 (21)	355 (530)	9,006 (2,745)	3,990 (1,810)	83 x 40 x 42
85-034-41	BHBF	50	19 (0.90)	1.07 (27)	625 (930)	4,512 (1,375)	3,615 (1,640)	83 x 40 x 42
85-038-41	BHBF	100	19 (0.90)	1.43 (36)	1,170 (1,740)	2,986 (910)	4,290 (1,945)	83 x 40 x 42
85-042-41	BHBF	200	19 (0.90)	1.96 (50)	2,230 (3,320)	2,230 (680)	5,770 (2,615)	83 x 40 x 42
85-062-41	BHAF	25	22 (0.64)	0.68 (17)	215 (320)	5,724 (1,745)	2,025 (920)	83 x 40 x 42
85-065-41	BHAF	50	22 (0.64)	0.85 (22)	360 (535)	5,724 (1,745)	2,855 (1,295)	83 x 40 x 42
85-069-41	BHAF	100	22 (0.64)	1.09 (28)	635 (945)	4,282 (1,305)	3,515 (1,595)	83 x 40 x 42
85-073-41	BHAF	200	22 (0.64)	1.47 (37)	1,190 (1,770)	3,412 (1,040)	4,855 (2,200)	83 x 40 x 42
85-077-41	BHAF	400	22 (0.64)	1.99 (51)	2,260 (3,365)	2,132 (650)	5,615 (2,545)	83 x 40 x 42
85-081-41	BHAF	600	22 (0.64)	2.42 (62)	3,370 (5,015)	1,410 (430)	5,545 (2,515)	83 x 40 x 42
85-100-41	BKMF	50	24 (0.51)	0.72 (18)	255 (380)	6,316 (1,925)	2,405 (1,090)	83 x 40 x 42
85-104-41	BKMF	100	24 (0.51)	0.91 (23)	430 (640)	6,004 (1,830)	3,375 (1,530)	83 x 40 x 42
85-108-41	BKMF	200	24 (0.51)	1.18 (30)	770 (1,145)	2,116 (645)	2,425 (1,100)	83 x 40 x 42
85-110-41	BKMF	300	24 (0.51)	1.43 (36)	1,130 (1,680)	2,280 (695)	3,370 (1,530)	83 x 40 x 42
85-112-41	BKMF	400	24 (0.51)	1.62 (41)	1,475 (2,195)	2,280 (695)	4,160 (1,885)	83 x 40 x 42
85-116-41	BKMF	600	24 (0.51)	1.94 (49)	2,160 (3,215)	1,312 (400)	3,630 (1,645)	83 x 40 x 42
85-118-41	BKMF	900	24 (0.51)	2.33 (59)	3,190 (4,745)	1,050 (320)	4,145 (1,880)	83 x 40 x 42
85-120-41	BKMF	1,200	24 (0.51)	2.64 (67)	4,165 (6,200)	1,312 (400)	6,260 (2,840)	83 x 40 x 42
85-135-41	BKTF	50	26 (0.40)	0.63 (16)	185 (275)	4,822 (1,470)	1,685 (765)	83 x 40 x 42
85-139-41	BKTF	100	26 (0.40)	0.77 (20)	300 (445)	4,822 (1,470)	2,240 (1,015)	83 x 40 x 42
85-143-41	BKTF	200	26 (0.40)	1.00 (25)	525 (780)	4,822 (1,470)	3,325 (1,510)	83 x 40 x 42
85-147-41	BKTF	400	26 (0.40)	1.33 (34)	970 (1,445)	2,394 (730)	3,115 (1,415)	83 x 40 x 42
85-151-41	BKTF	600	26 (0.40)	1.58 (40)	1,410 (2,100)	2,394 (730)	4,170 (1,890)	83 x 40 x 42
85-153-41	BKTF	900	26 (0.40)	1.87 (48)	2,045 (3,045)	1,510 (460)	3,885 (1,760)	83 x 40 x 42
85-155-41	BKTF	1,200	26 (0.40)	2.13 (54)	2,695 (4,010)	1,526 (465)	4,910 (2,225)	83 x 40 x 42

Canadian Bonded STALPETH

DCAZ, DCMZ and DCTZ



PRODUCT DESCRIPTION

Canadian Bonded STALPETH Cable is a foam-skin insulated, single jacketed, armored air core design intended for use in ducts to provide more efficient duct utilization than standard PIC designs.

APPLICATIONS

- Congested underground duct systems

FEATURES

- Tightly controlled individual conductor dimensions
- Specially designed pair twist lays
- Core wrap
- Aluminum tape shield
- Steel tape armor bonded to outer jacket
- Polyethylene jacket

BENEFITS

- Limits resistance unbalance of paired conductors
- Minimizes crosstalk and meets the capacitance unbalance requirements
- Protects the core and helps provide core-to-shield dielectric strength
- Assures good electrical contact with non-piercing bonding clamps
- Protects the core from mechanical damage and reduces the possibility of tape buckling during installation, ingress of water to the aluminum shield and of water along the cable between the armor and outer jacket
- Provides a tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations

SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Conductors are dual insulated with an inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin; conductor insulation is color coded in accordance with industry standard
≥ 50-Pair Core	Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, the color code is Mirror Image design
Core Wrap	Non-hygroscopic dielectric material
Shield	Corrugated bare 8 mil aluminum tape applied longitudinally over the core wrap
Armor	Corrugated, copolymer coated, 6 mil steel tape applied over the aluminum shield and bonded to the outer jacket
Jacket	Black polyethylene
Jacket Marking	Manufacturer's identification, pair count, AWG, product identification and a telephone handset printed at 2 foot intervals; sequential footage markings are printed at alternate 2 foot intervals
Standards Compliance	Telcordia GR-421-CORE Issue 2 RoHS-compliant

ELECTRICAL SPECIFICATIONS

Number of Pairs	Average Mutual Capacitance @ 1000 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)
All pairs	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 mile (km)	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts	
				Average	Individual Pair	Conductor to Conductor	Conductor to Shield
22 (0.64)	1.0 (1.6)	5.0 (16.4)	91 (56.5)	1.5	5.0	1,400	5,000
24 (0.51)	1.0 (1.6)	6.3 (20.7)	144 (89.5)	1.5	5.0	1,200	5,000
26 (0.40)	1.0 (1.6)	7.9 (25.9)	232 (144.2)	1.5	5.0	1,000	5,000

Minimum Near End Crosstalk (NEXT) @ 772 kHz dB/kft (dB/km)

PSWUNEXT Mean	47 (154)
PSWUNEXT Worst Pair	42 (138)

Minimum Far End Crosstalk PSELFEXT @ 772 kHz dB/kft (dB/km)

Conductor Size AWG (mm)	Mean	Worst Pair
22 (0.64)	49 (161)	43 (141)
24 (0.51)	49 (161)	43 (141)
26 (0.40)	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)	Steel Reel Size F x T x D in
07-021-76	DCAZ	900	22 (0.64)	2.49 (63)	4,375 (6,510)	1,600 (488)	7,795 (3,535)	83 x 40 x 42
07-021-77	DCAZ	1,200	22 (0.64)	2.85 (72)	5,770 (8,585)	1,200 (366)	7,720 (3,500)	83 x 40 x 42
19-116-01	DCMZ	600	24 (0.51)	1.70 (43)	19,60 (2,915)	3,900 (1,189)	8,440 (3,830)	83 x 40 x 42
07-021-99	DCMZ	900	24 (0.51)	2.02 (51)	2,860 (4,255)	2,616 (797)	8,275 (3,755)	83 x 40 x 42
07-021-68	DCMZ	1,200	24 (0.51)	2.30 (58)	3,755 (5,590)	2,000 (610)	8,305 (3,765)	83 x 40 x 42
07-022-12	DCMZ	1,500	24 (0.51)	2.57 (65)	4,660 (6,935)	1,600 (488)	8,250 (3,745)	83 x 40 x 42
07-021-69	DCMZ	1,800	24 (0.51)	2.81 (71)	5,545 (8,250)	1,250 (381)	7,725 (3,505)	83 x 40 x 42
07-021-75	DCMZ	2,100	24 (0.51)	3.04 (77)	6,440 (9,585)	1,148 (350)	8,200 (3,720)	83 x 40 x 42
07-021-98	DCMZ	2,400	24 (0.51)	3.22 (82)	7,320 (10,895)	876 (267)	7,205 (3,270)	83 x 40 x 42
07-022-11	DCTZ	900	26 (0.40)	1.62 (41)	1,850 (2,755)	3,904 (1,190)	8,010 (3,635)	83 x 40 x 42
07-021-70	DCTZ	1,200	26 (0.40)	1.84 (47)	2,420 (3,600)	3,200 (975)	8,540 (3,875)	83 x 40 x 42
07-022-08	DCTZ	1,500	26 (0.40)	2.08 (53)	2,995 (4,455)	2,500 (762)	8,285 (3,755)	83 x 40 x 42
07-021-71	DCTZ	1,800	26 (0.40)	2.26 (57)	3,560 (5,300)	2,080 (634)	8,200 (3,720)	83 x 40 x 42
07-021-72	DCTZ	2,400	26 (0.40)	2.58 (66)	4,685 (6,970)	1,600 (488)	8,290 (3,760)	83 x 40 x 42
07-021-90	DCTZ	2,700	26 (0.40)	2.71 (69)	5,240 (7,800)	1,247 (380)	7,345 (3,330)	83 x 40 x 42
07-021-73	DCTZ	3,000	26 (0.40)	2.86 (73)	5,800 (8,630)	1,200 (366)	7,755 (3,520)	83 x 40 x 42
07-021-74	DCTZ	3,600	26 (0.40)	3.03 (77)	6,885 (10,245)	1,150 (351)	8,715 (3,950)	83 x 40 x 42

Canadian Self Support

BHBS-BC, BHAS-BC and BKMS-BC



SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Color coded solid polyolefin
Twisted Pairs	Individual insulated conductors twisted into pairs with varying lays and specific color combinations
≤ 25-Pair Core	Pairs are combined into a cylindrical core
≥ 50-Pair Core	Multiples of 25-pair groups are assembled into units; each unit is identified by color coded binders
Core Wrap	Non-hygroscopic, dielectric tape applied over core
Shield	Corrugated, copolymer coated, 8 mil aluminum tape applied longitudinally with an overlap
Support Member	0.25 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger support member is integral part of sheath
Jacket	Black, polyethylene
Jacket Markings	Manufacturer's ID, date of jacketing, pair count, AWG and meter sequential at 1 meter intervals
Standards Compliance	Telcordia GR-421-CORE RoHS-compliant

PRODUCT DESCRIPTION

Self Support Cable is a plastic insulated, single jacketed air core design with a built-in support member intended specially for aerial applications. The core and support member (messenger) lay parallel to each other forming a cross-sectional "figure 8." The messenger is an integral part of the cable sheath, yet readily available for gripping, pulling and tensioning. Installation is fast and easy using standard methods and hardware.

FEATURES

- Twisted pairs with varying lays and specific color combinations
- Core wrap
- Shield interfaces and steel support member are flooded with adhesive compound
- Polyethylene jacket

BENEFITS

- Minimizes crosstalk and provides pair identification
- Provides core thermal protection
- Provides moisture barrier and inhibit corrosion
- Provides a tough protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

Number of Pairs	Average Mutual Capacitance @ 1000 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)	45 (28.0)	1.5	5.0	5,000	10,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91 (56.6)	1.5	5.0	4,000	10,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144 (89.5)	1.5	5.0	3,000	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)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Pair Count	AWG (mm)	Dimensions		Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight lbs (kg)	Steel Reel Size F x T x D in
				Minor in (mm)	Major in (mm)				
07-021-51	BHBS-BC	6	19 (0.90)	0.48 (12)	0.96 (24)	240 (355)	10,006 (3,050)	1,023 (1,526)	83 x 40 x 42
07-021-52	BHBS-BC	25	19 (0.90)	0.60 (15)	1.07 (27)	440 (655)	5,020 (1,530)	2,990 (4,459)	83 x 40 x 42
07-021-53	BHBS-BC	50	19 (0.90)	0.98 (25)	1.45 (34)	710 (1,055)	5,020 (1,530)	4,345 (6,480)	83 x 40 x 42
07-021-54	BHAS-BC	25	22 (0.64)	0.58 (15)	1.05 (27)	325 (485)	10,006 (3,050)	1,109 (1,654)	83 x 40 x 42
07-021-55	BHAS-BC	50	22 (0.64)	0.74 (19)	1.20 (31)	460 (685)	7,513 (2,290)	4,238 (6,320)	83 x 40 x 42
07-021-56	BHAS-BC	100	22 (0.64)	1.00 (25)	1.47 (37)	720 (1,070)	6,004 (1,830)	5,105 (7,613)	83 x 40 x 42
07-021-57	BKMS-BC	50	24 (0.51)	0.62 (16)	1.09 (28)	385 (573)	13,303 (4,055)	5,904 (8,805)	83 x 40 x 42
07-021-58	BKMS-BC	100	24 (0.51)	0.80 (22)	1.27 (32)	575 (856)	8,005 (2,440)	5,305 (8,031)	83 x 40 x 42
07-021-59	BKMS-BC	200	24 (0.51)	1.09 (28)	1.56 (40)	1,013 (1,508)	5,020 (1,530)	5,867 (8,750)	83 x 40 x 42

PRODUCT DESCRIPTION

ADW is a PVC jacketed 2-pair or 4-pair aerial service wire designed for use in extending telephone service to subscriber premises from the distribution cable or cable terminal. Major features include small size and light weight coupled with abrasion resistant jacket. Standard hardware and installations procedures are directly applicable to this product.

FEATURES

- Twisted pairs with varying lays
- Fiberglass strength members
- Rip cord
- Weather-resistant PVC jacket extruded over the strength members and bonded to the fiberglass strength members

BENEFITS

- Minimizes resistance unbalance
- Provides the necessary longitudinal strength
- Facilitates jacket removal
- Protects the core from mechanical damage, degradation by sunlight and the ingress of moisture
- Provides the required strength characteristics



SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Individual conductors insulated with solid polyolefin in distinctive colors; 2-pair color code is Blue/White and Orange/Red and 4-pair color code is Blue/White, Orange/Red, Black/Green and Yellow/Brown
Core Assembly	Individual conductors twisted into pairs
Strength Members	Fiberglass strength members placed in the jacket parallel to the core assembly
Rip cord	Placed parallel to the core
Jacket	Sky blue grey weather-resistant PVC jacket extruded over the strength members and bonded to the fiberglass strength members
Standards Compliance	RoHS-compliant

ELECTRICAL SPECIFICATIONS

Conductor Size AWG (mm)	Average Mutual Capacitance @ 1000 Hz nF/mile (nF/km)	Insulation Resistance @ 60°F (16°C) megohm-mile (megohm-km)	Capacitance Unbalance @ 1 kHz Pair to Pair Maximum pF @ 1 kft (pF @ 1 km)	Conductor DC Resistance @ 20°F (-7°C) Maximum Individual Ohms/kft (Ohms/km)	Resistance Unbalance Maximum Individual Pair %	Dielectric Strength DC Potential - Volts Minimum Conductor to Conductor
22 (0.64)	113 (70)	380 (610)	80 (145)	16.8 (55)	5.0	4,000

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
12-022-09	2	22 (0.64)	0.26 (6.6)	30 (45)	1,476 (450)	Coil
12-021-09	2	22 (0.64)	0.26 (6.6)	30 (45)	656 (200)	POP™ Box
12-023-09	2	22 (0.64)	0.26 (6.6)	30 (45)	5,000 (1,524)	Reel
12-041-09	4	22 (0.64)	0.33 (8.4)	55 (80)	820 (250)	Coil
12-042-09	4	22 (0.64)	0.33 (8.4)	55 (80)	3,937 (1,200)	Reel
12-043-09	4	22 (0.64)	0.33 (8.4)	55 (80)	328 (100)	POP Box



TECHNICAL GUIDELINE

Sag and Tension Guides for these products are available online:
SuperiorEssex.com/TechTip.aspx

Canadian Integrated Messenger Wire

IM/F, IM/H and IM/G



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Solid polyolefin in distinctive colors; standard color codes are used for pair identification with compounds chosen for electrical balance and permanency
Core Assembly	Tightly controlled individual conductor dimensions; in multi-pair constructions, pair twist lays are varied; twisted pairs are formed into a firm, round core
Support Member	Available in 0.083 inch (F), 0.109 inch (H), or 0.095 inch (G) solid extra-strength steel support wire
Jacket	Black, fire retardant, polyvinylchloride jacket; steel support wire is jacketed in an integral extrusion with the core
Performance Compliance	Telcordia GR-3163-CORE ANSI/ICEA S-89-648-2006 RoHS-compliant
NRTL Programs	UL Listed

PRODUCT DESCRIPTION

IM/F, IM/H and IM/G Aerial Service Wire in 2, 3, 6 and 12-pair is self supporting. The conductors are laid parallel to a solid extra-strength steel support wire. Both the conductors and support wire are jacketed in an integral "figure-8" configuration. This product permits fast, economical installation from aerial distribution cable terminals to building entrance protectors or network interface units on the subscriber's premises. The fully color coded core expedites splicing and terminating procedures.

FEATURES

- Tightly controlled individual conductor dimensions
- Varied pair twist lays
- Polyvinylchloride jacket

BENEFITS

- Limits resistance unbalance of the twisted pairs
- Minimizes crosstalk and meets capacitance limits
- Provides a tough flexible protective covering that withstands exposure to sunlight, atmospheric temperatures and stresses encountered in standard installations



TECHNICAL GUIDELINE

Sag and Tension Guides for these products are available online: SuperiorEssex.com/TechTip.aspx

ELECTRICAL SPECIFICATIONS

Average Mutual Capacitance @ 1000 Hz		Capacitance Unbalance @ 1 kHz		Minimum Near End Crosstalk (NEXT) @ 772 kHz dB/kft (dB/km)
Maximum Individual nF/mile (nF/km)	Wire Average nF/mile (nF/km)	Pair to Pair pF @ 1 kft (pF @ 1 km)	Pair to Ground pF @ 1 kft (pF @ 1 km)	
94 (58)	83 ± 7 (52 ± 4)	80 (145)	800 (2,625)	44 (144)

Conductor Size AWG (mm)	Minimum Insulation Resistance megohm-kft (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	DC Conductor Resistance @ 68°F (20°C) Maximum Individual Ohms/mile (Ohms/km)	Resistance Unbalance Maximum % Individual Pair	Conductor to Conductor Dielectric Strength Minimum Volts DC 3 secs, no breakdown
19 (0.90)	5,000 (1,600)	3.3 (11)	45 (28.0)	5.0	5,000
22 (0.64)	5,000 (1,600)	5.1 (17)	91 (56.5)	5.0	4,000

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Support Size in	Pair Count	AWG (mm)	Dimensions		Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
				Minor in (mm)	Major in (mm)			
10-921-38	IM/G 0.095	2	19 (0.90)	0.27 (6.8)	0.51 (12.9)	73 (109)	656 (200)	Coil
10-923-38	IM/G 0.095	2	19 (0.90)	0.27 (6.8)	0.51 (12.9)	73 (109)	4,921 (1,500)	Reel
10-002-34	IM/F 0.083	2	22 (0.64)	0.22 (5.7)	0.46 (11.7)	55 (82)	600 (183)	Coil
10-102-34	IM/F 0.083	2	22 (0.64)	0.22 (5.7)	0.46 (11.7)	55 (82)	5,000 (1,524)	Reel
10-503-34	IM/F 0.083	3	22 (0.64)	0.24 (6.2)	0.48 (12.3)	72 (107)	600 (183)	Coil
10-106-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	3,500 (1,067)	Reel
10-206-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	1,000 (305)	Reel
10-006-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	250 (76)	Coil
10-306-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	400 (122)	Coil
10-261-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	492 (150)	Coil
10-262-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	2,461 (750)	Reel
10-265-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	5,000 (1,524)	Reel
10-281-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	410 (125)	Coil
10-284-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	2,460 (750)	Reel
10-285-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	8,202 (2,500)	Reel
10-102-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	1,000 (305)	Reel
10-012-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	250 (76)	Coil
10-212-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	5,000 (1,524)	Reel

Contact Superior Essex for additional configurations and AWG sizes.

PRODUCT DESCRIPTION

ADP NMS is a PVC-jacketed aerial service wire with QuickCount® in meters. It is available in 2-pair and 6-pair designs. ADP NMS printed in meters is designed for use in extending telephone service to subscriber premises from the distribution cable or cable terminal. Major features include small size and light weight coupled with abrasion resistant jacket. Standard hardware and installation procedures are directly applicable to this product.



FEATURES

- Insulation of the tip conductor is marked with a stripe of the mating ring insulation color
- Tightly controlled individual conductor dimensions
- Fiberglass yarns
- Rip cord
- Weather resistant, polyvinylchloride jacket bonded to the fiberglass strength members

BENEFITS

- Reduces the possibility of splitting pairs during installation
- Limits resistance unbalance of the twisted pairs
- Provides necessary longitudinal strength
- Facilitates jacket removal
- Protects the core from mechanical damage, degradation by sunlight and ingress of moisture
- Provides the required strength characteristics

SPECIFICATIONS

Conductor	Solid annealed copper
Insulation	Solid polyolefin; insulation of the tip conductor is marked with a stripe of the mating ring insulation color
Core Assembly	Individual conductors are carefully twisted into pairs
Strength Members	Fiberglass yarns placed parallel to the core
Rip cord	Placed parallel to the core
Jacket	Black, weather resistant, polyvinylchloride jacket extruded over the yarns and rip cord and bonded to the fiberglass strength members
Performance Compliance	Telecordia GR-3163-CORE RDUP PE-7 ANSI/ICEA S-89-648-2006 RoHS-compliant
NRTL Programs	UL Listed

ELECTRICAL SPECIFICATIONS

Average Mutual Capacitance @ 1000 Hz			Capacitance Unbalance @ 1 kHz		Minimum Near End Crosstalk (NEXT) @ 772 kHz
Maximum Individual nF/mile (nF/km)	Wire Average nF/mile (nF/km)		Maximum Individual Pair to Pair pF @ 1 kft (pF @ 1 km)		dB/kft (dB/km)
94 (58)	83 ± 7 (52 ± 4)		80 (145)		48 (157)

Conductor Size AWG (mm)	Minimum Insulation Resistance megohm-mile (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	DC Conductor Resistance @ 68°F (20°C) Maximum Individual Ohms/mile (Ohms/km)	Resistance Unbalance Maximum % Individual Pair	Conductor to Conductor Dielectric Strength Minimum Volts DC 3 secs, no breakdown
22 (0.64)	1,000 (1,600)	5.1 (17)	91 (56.5)	5.0	4,000

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Dimensions		Approx. Weight lbs/kft (kg/km)	Standard Length m	Package
			Minor in (mm)	Major in (mm)			
12-015-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	35 (50)	150	ReelSaver™ coil
12-014-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	35 (50)	228	POP™ box
12-013-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	35 (50)	300	Coil
11-003-66	6	22 (0.64)	0.27 (7.0)	0.48 (12)	70 (105)	305	Reel
11-003-65	6	22 (0.64)	0.27 (7.0)	0.48 (12)	70 (105)	122	Coil



TECHNICAL GUIDELINE

Sag and Tension Guides for these products are available online: SuperiorEssex.com/TechTip.aspx

Buried Distribution Wire

BCBD



SPECIFICATIONS	
Conductor	Solid annealed copper
AWG (mm)	22 (0.64)
Insulation	Dual-extruded cellular inner layer and a color coded solid outer layer of polyolefin
Core Assembly	Insulated conductors are twisted to form pairs with varying lays
Filling Compound	PEP compound applied to the wire core which completely coats each insulated conductor and fills the interstices between pairs
Core Wrap	Non-hygroscopic core wrap applied over the core
Flooding Compound	Applied to fill all the voids under the shield
Shield	Electrically-continuous 8 mil flat aluminum tape shield with a 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
Standards Compliance	RoHS-compliant

PRODUCT DESCRIPTION

BCBD Wire with foam skin insulation is a single jacketed design for use in subscriber distribution.

FEATURES

- Varied pair twist lays
- Core wrap
- Polyethylene jacket

BENEFITS

- Minimizes crosstalk and meets capacitance unbalance limitations
- Furnishes mechanical and 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

Average Mutual Capacitance @ 1000 Hz nF/mile (nF/km)	Capacitance Unbalance Maximum Individual	
	Pair to Pair pF @ 1 kft (pF @ 1 km)	Pair to Ground pF @ 1 kft (pF @ 1 km)
90 (56)	80 (145)	800 (2,625)

Conductor Size AWG (mm)	Minimum Insulation Resistance @ 60°F (16°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)	Resistance Unbalance Maximum % Individual Pair	Dielectric Strength DC Potential - Volts Minimum	
					Conductor to Conductor	Conductor to Shield
22 (0.64)	1.0 (1.6)	4.5 (14.8)	17.3 (56.6)	5.0	3,600	10,000

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
85-235-06	4	22 (0.64)	0.30 (7.6)	45 (65)	1,640 (500)	Reel
85-233-06	4	22 (0.64)	0.30 (7.6)	45 (65)	4,593 (1,400)	Reel
85-234-06	4	22 (0.64)	0.30 (7.6)	45 (65)	656 (200)	Coil