



Product Description

- Double jacketed aircore cable commonly called "SEALPAP" is a solid-insulated design intended for use in outside plant 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.

Physical Description

- **CONDUCTORS:** Solid annealed bare copper in 19, 22, 24 and 26 AWG.
- **INSULATION:** Conductors are insulated with solid polyolefin in distinctive colors to facilitate pair identification.
- **CORE ASSEMBLY:** Individual conductor dimensions are tightly controlled to limit resistance unbalance of the paired conductors. Pair twist lays and the relative placement of the pairs are designed to minimize crosstalk and meet the capacitance unbalance limits. In cables having 25 pairs or less, the pairs are combined into a cylindrical core. In cables of 50 pairs and more, multiples of 25 pair groups are assembled to form the final cable core. Each group is identified by color coded non-hygroscopic binders. For 1200 pair and larger, the color code is a Mirror Image design.
- **CORE WRAP:** A complete covering of a non-hygroscopic dielectric material protects the core and helps provide core-to-shield dielectric strength.
- **INNER JACKET:** A polyethylene inner jacket provides additional protection against mechanical damage and helps prevent the ingress of moisture. Ripcords are placed between the core wrap and the inner jacket and between the inner jacket and shield.
- **SHIELD:** A smooth 8-mil two-side coated aluminum tape is applied longitudinally over the inner jacket.
- **JACKET:** A black, linear low-density polyethylene provides a tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, and stresses expected in standard installations. The overall outer jacket is bonded to the aluminum shield for additional moisture resistance.
- **JACKET MARKINGS:** Information such as manufacturer's identification, plant location, year manufactured, pair count, AWG, product identification, sequential length markings in meters and a telephone handset.

Electrical Specifications

Average Mutual Capacitance at 1000 Hz

Total Number of Pairs		nF/mile	nF/km
Over 12		83 ± 4	52 ± 2

Conductor Size		Minimum Insulation Resistance @ 68°F		Max Average Attenuation @ 68°F (20°C) 772 kHz		Max Conductor Resistance @ 68°F Ohms/sheath		Resistance Unbalance		Dielectric Strength DC Potential – Volts	
								Maximum		Minimum	
AWG	mm	gigohm/mile	gigohm/km	dB/kft	dB/km	mile	km	Ave %	Individual Pair %	Cdr. to Cdr.	Cdr. to Grnd.
19	0.90	1.0	1.6	3.3	10.8	45.0	28.0	1.5	5.0	5,000	20,000
22	0.64	1.0	1.6	4.7	15.4	91.0	56.5	1.5	5.0	4,000	20,000
24	0.50	1.0	1.6	5.9	19.4	144.0	89.5	1.5	5.0	3,000	20,000
26	0.40	1.0	1.6	7.4	24.3	232.0	144.2	1.5	5.0	2,400	20,000

Minimum Near End Crosstalk (NEXT) at				150 kHz		772 kHz		Capacitance Unbalance Pair to Pair					
P.S.WUNEXT mean (dB)				58		47		Pairs		Maximum Individual		Maximum RMS	
P.S.WUNEXT worst pair (dB)				53		42		pF/kft		pF/km		pF/kft	
P.S.WUNEXT worst pair (dB)				53		42		12 or less		80		145	
P.S.WUNEXT worst pair (dB)				53		42		more than 12		80		145	
P.S.WUNEXT worst pair (dB)				53		42				25		45	
Far End Crosstalk at 150 kHz				150 kHz		772 kHz		Capacitance Unbalance Pair to Ground					
Conductor size (AWG)				19 22 24 26		19 22 24 26		Pairs		Maximum Individual		Maximum RMS	
P.S. ELFEXT mean (dB/kft)				65 63 63 61		65 63 63 61		pF/kft		pF/km		pF/kft	
P.S. ELFEXT worst pair (dB/kft)				59 57 57 57		59 57 57 57		12 or less		800		2625	
P.S. ELFEXT worst pair (dB/kft)				59 57 57 57		59 57 57 57		more than 12		800		2625	
P.S. ELFEXT worst pair (dB/kft)				59 57 57 57		59 57 57 57				175		574	
Far End Crosstalk at 772 kHz				150 kHz		772 kHz							
Conductor size (AWG)				19 22 24 26		19 22 24 26							
P.S. ELFEXT mean (dB/kft)				51 49 49 47		51 49 49 47							
P.S. ELFEXT worst pair (dB/kft)				45 43 43 43		45 43 43 43							

Part Numbers and Physical Characteristics

Part #	Pair Count	Nominal O.D. in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight lbs (kg)	Standard Reel Size
BHBF						
19 AWG (0.90 mm)						
85-031-41	25	0.83 (21)	350 (521)	4593 (1400)	1849 (2758)	420
85-034-41	50	1.06 (27)	618 (920)	4593 (1400)	1849 (2758)	420
85-038-41	100	1.42 (36)	1160 (1726)	3000 (915)	4744 (7075)	420
85-042-41	200	1.96 (50)	2217 (3299)	1492 (455)	4089 (6098)	420
BHAF						
22 AWG (0.64 mm)						
85-062-41	25	0.67 (17)	210 (313)	5725 (1745)	1984 (2959)	420
85-065-41	50	0.84 (21)	354 (527)	5725 (1745)	1984 (2959)	420
85-069-41	100	1.08 (27)	626 (932)	4281 (1305)	3462 (5163)	420
85-073-41	200	1.46 (37)	1179 (1755)	3412 (1040)	4804 (7165)	420
85-077-41	400	1.98 (50)	2245 (3341)	2132 (650)	5568 (8304)	420
85-081-41	600	2.40 (61)	3338 (4968)	1066 (325)	4340 (6473)	420
BKMF						
24 AWG (0.50 mm)						
85-100-41	50	0.71 (18)	248 (369)	6315 (1925)	2348 (3502)	420
85-104-41	100	0.90 (23)	425 (632)	6004 (1830)	3333 (4970)	420
85-108-41	200	1.17 (30)	764 (1137)	2116 (645)	2398 (3576)	420
85-110-41	300	1.42 (36)	1122 (1670)	2280 (695)	3040 (4534)	420
85-112-41	400	1.61 (41)	1463 (2177)	2280 (695)	4117 (6139)	420
85-116-41	600	1.92 (49)	2139 (3183)	1312 (400)	3588 (5351)	420
85-118-41	900	2.31 (59)	3169 (4716)	1049 (320)	4106 (6123)	420
85-120-41	1200	2.63 (67)	4147 (6172)	1312 (400)	6222 (9279)	420
BKTF						
26 AWG (0.40 mm)						
85-135-41	50	0.62 (16)	178 (265)	4822 (1470)	1640 (2446)	420
85-139-41	100	0.76 (19)	295 (439)	4822 (1470)	2204 (3287)	420
85-143-41	200	0.99 (25)	516 (768)	4822 (1470)	3270 (4877)	420
85-147-41	400	1.32 (34)	965 (1436)	2395 (730)	3093 (4613)	420
85-151-41	600	1.57 (40)	1399 (2082)	2395 (730)	4132 (6162)	420
85-153-41	900	1.85 (47)	2029 (3020)	1509 (460)	3543 (5731)	420
85-155-41	1200	2.12 (54)	2678 (3985)	1525 (465)	4865 (7256)	420

Standards Compliance

Telecordia GR-421-CORE; ANSI/ICEA S-85-625-2002