

SEALPIC®-F (RDUP PE-39)



Product Description

SEALPIC-F cables are designed for direct burial or duct applications where protection from moisture is required and aluminum shielding is desired. SEALPIC-F may be used aerially, but must be attached to a support strand.

Physical Description

- **CONDUCTORS:** Solid annealed copper in 19, 22, 24 and 26 AWG.
- **INSULATION:** Conductors are insulated with solid polyolefin, color coded in accordance with industry standards.
- **TWISTED PAIRS:** Individual insulated conductors are twisted into pairs with varying lay lengths to minimize crosstalk and specific color combinations to provide pair identification.
- **CORE ASSEMBLY:** Cables of 25 pairs or less are assembled into a cylindrical core. Cables larger than 25 pairs are assembled into units, which are then used to assemble the core. Units are individually identifiable by color coded unit binders.
- **FILLING COMPOUND:** The core assembly is filled with an 80°C ETPR compound, completely filling the interstices between the pairs and under the core wrap.
- **CORE WRAP:** A non-hygroscopic, dielectric tape is applied over the core assembly to provide thermal protection for the core.
- **SHIELDING:** A corrugated, copolymer coated, 8-mil aluminum tape is applied longitudinally with an overlap. The shield interfaces are flooded.
- **JACKET:** A black, linear low-density polyethylene jacket is applied overall. The jacket provides a tough protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations.
- **JACKET MARKINGS:** Information, such as manufacturer's identification, pair count, AWG, product identification, sequential footage and a telephone handset is printed at 2 ft. intervals on the cable jacket.

Electrical Specifications

Average Mutual Capacitance at 1000 Hz

Total Number of Pairs	nF/mile	nF/km
12 or less	83 ± 7	52 ± 4
Over 12	83 ± 4	52 ± 2

Conductor Size		Minimum Insulation Resistance 68° F (20° C)		Max Average Attenuation 772kHz @ 68°F (20° C)		Max Conductor Resistance @ 68°F (20° C) Ohms/sheath		Resistance Unbalance Maximum %		Dielectric Strength DC Potential – Volts	
AWG	mm	gigohm-mile	gigohm-km	dB/kft	dB/km	mile	km	Avg.	Individual Pair	Cdr. to Cdr.	Cdr. to Grnd.
19	0.90	1.0	1.6	2.8	9.2	45.0	28.0	1.5	5.0	7,000	15,000
22	0.64	1.0	1.6	4.0	13.1	91.0	56.6	1.5	5.0	5,000	15,000
24	0.50	1.0	1.6	5.0	16.4	144.0	89.5	1.5	5.0	4,000	15,000
26	0.40	1.0	1.6	6.4	21.0	232.0	144.2	1.5	5.0	2,800	15,000

Minimum Near End Crosstalk (NEXT) at		150 kHz		772 kHz		Capacitance Unbalance Pair to Pair @ 1 kHz		Maximum Individual		Maximum RMS	
		P.S. WUNEXT mean (dB)		P.S. WUNEXT worst pair (dB)		Pairs		pF/kft		pF/km	
		58		47		12 or less		80		145	
		53		42		more than 12		80		145	
		-		-				25		45	
Minimum Far End Crosstalk at 150 kHz		19		22		24		26			
Conductor size (AWG)		65		63		63		61			
P.S. ELFEXT mean (dB/kft)		59		57		57		57			
P.S. ELFEXT worst pair (dB/kft)											
Minimum Far End Crosstalk at 772 kHz		19		22		24		26			
Conductor size (AWG)		51		49		49		47			
P.S. ELFEXT mean (dB/kft)		45		43		43		43			
P.S. ELFEXT worst pair (dB/kft)											
Capacitance Unbalance Pair to Ground @ 1 kHz		Maximum Individual		Maximum Avg		Pairs		pF/kft		pF/km	
		800		2625		12 or less		800		2625	
		800		2625		more than 12		800		2625	
		-		-				175		574	

*For cables of 12 pairs or less, the maximum average attenuation may be increased by 10% over the values shown.

Available through **Multicom, Inc.**
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Part Numbers and Physical Characteristics

	Part #	Pair Count	Nom. O.D. inches (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight lbs (kg)	Reel Size FxTxD (in)
19 AWG (0.90 mm)	04-026-21	6	0.54 (14)	140 (210)	5000 (1524)	810 (365)	44 x 18 x 20
	04-028-21	12	0.69 (18)	235 (350)	5000 (1524)	1340 (610)	46 x 25 x 20
	04-031-21	25	0.92 (23)	440 (655)	5000 (1524)	2570 (1165)	65 x 30 x 32
	04-034-21	50	1.22 (31)	810 (1205)	5000 (1524)	4750 (2155)	78 x 40 x 39
	04-038-21	100	1.69 (43)	1565 (2330)	2500 (762)	4525 (2055)	72 x 35 x 36
22 AWG (0.64 mm)	04-057-21	6	0.43 (11)	85 (125)	5000 (1524)	490 (220)	36 x 18 x 14
	04-059-21	12	0.53 (14)	135 (200)	5000 (1524)	785 (355)	44 x 18 x 20
	04-062-21	25	0.68 (17)	240 (355)	5000 (1524)	1365 (620)	46 x 25 x 20
	04-065-21	50	0.89 (23)	425 (630)	5000 (1524)	2370 (1075)	58 x 25 x 20
	04-069-21	100	1.19 (30)	780 (1160)	5000 (1524)	4515 (2050)	72 x 35 x 36
	04-073-21	200	1.63 (41)	1500 (2230)	2500 (762)	4365 (1980)	72 x 35 x 36
	04-075-21	300	1.96 (50)	2205 (3280)	2500 (762)	6210 (2820)	78 x 40 x 39
	04-077-21	400	2.23 (57)	2890 (4300)	1250 (381)	4225 (1915)	72 x 35 x 36
	04-081-21	600	2.72 (69)	4295 (6390)	1250 (381)	6165 (2795)	84 x 40 x 42
	04-083-21	900	3.30 (84)	6380 (9495)	1250 (381)	7975 (3615)	96 x 40 x 48
24 AWG (0.50 mm)	04-092-21	6	0.38 (9.7)	60 (90)	5000 (1524)	365 (165)	36 x 18 x 14
	04-094-21	12	0.46 (12)	95 (140)	5000 (1524)	585 (265)	44 x 18 x 20
	04-097-21	25	0.58 (15)	165 (245)	5000 (1524)	990 (450)	46 x 25 x 20
	04-100-21	50	0.74 (19)	285 (425)	5000 (1524)	1630 (740)	52 x 25 x 20
	04-104-21	100	0.98 (25)	520 (775)	5000 (1524)	2970 (1345)	65 x 30 x 32
	04-108-21	200	1.32 (34)	975 (1450)	5000 (1524)	5575 (2530)	78 x 40 x 39
	04-110-21	300	1.58 (40)	1420 (2115)	2500 (762)	4165 (1890)	72 x 35 x 36
	04-112-21	400	1.79 (46)	1850 (2755)	2500 (762)	5325 (2415)	78 x 40 x 39
	04-116-21	600	2.18 (55)	2745 (4085)	1250 (381)	4045 (1835)	72 x 35 x 36
	04-118-21	900	2.63 (67)	4050 (6025)	1250 (381)	5760 (2615)	78 x 40 x 39
	04-120-21	1200	3.00 (76)	5325 (7925)	1000 (305)	6025 (2730)	78 x 40 x 39
	04-121-21	1500	3.35 (85)	6625 (9860)	1000 (305)	7800 (3540)	96 x 40 x 48
	04-124-21	1800	3.63 (92)	7870 (11710)	1000 (305)	9045 (4105)	96 x 40 x 48
26 AWG (0.40 mm)	04-128-21	6	0.36 (9)	55 (82)	5000 (1525)	339 (154)	36 x 18 x 14
	04-129-21	12	0.42 (10)	80 (119)	5000 (1525)	464 (211)	36 x 18 x 14
	04-132-21	25	0.49 (12)	115 (170)	5000 (1524)	685 (310)	44 x 18 x 20
	04-135-21	50	0.65 (16)	210 (313)	5000 (1525)	1158 (526)	46 x 25 x 20
	04-139-21	100	0.80 (20)	340 (505)	5000 (1524)	1945 (880)	58 x 25 x 20
	04-143-21	200	1.08 (27)	635 (945)	5000 (1524)	3790 (1720)	72 x 35 x 36
	04-145-21	300	1.27 (32)	910 (1355)	5000 (1524)	5250 (2380)	78 x 40 x 39
	04-147-21	400	1.45 (37)	1195 (1780)	5000 (1524)	6770 (3070)	84 x 40 x 42
	04-151-21	600	1.74 (44)	1750 (2605)	2500 (762)	5075 (2300)	78 x 40 x 39
	04-153-21	900	2.09 (53)	2565 (3815)	1250 (381)	3820 (1735)	72 x 35 x 36
	04-155-21	1200	2.38 (61)	3355 (4995)	1250 (381)	4810 (2180)	72 x 35 x 36
	04-156-21	1500	2.67 (68)	4190 (6235)	1250 (381)	6035 (2735)	84 x 40 x 42
	04-157-21	1800	2.91 (74)	5005 (7450)	1000 (305)	5705 (2585)	78 x 40 x 39
	04-158-21	2100	3.18 (80)	6251 (9311)	1000 (305)	7426 (3371)	96 x 40 x 48
	04-159-21	2400	3.36 (85)	6657 (9928)	1000 (305)	7832 (3556)	96 x 40 x 48
	04-162-21	3000	3.74 (96)	8767 (13059)	1000 (305)	9747 (4425)	94 x 48 x 50
	04-163-21	3300	3.91 (99)	9603 (14304)	1000 (305)	10583 (4805)	94 x 48 x 50

Standards Compliance:

ANSI/ICEA S-84-608-2002; RDUP 7 CFR 1755.390 (PE-39), RoHS compliant

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