

# SEALPIC®-FSF (RDUP PE-89)



Specifications	
<b>Conductor</b>	Solid annealed copper
<b>AWG (mm)</b>	Available in 19 (0.90), 22 (0.64), 24 (0.51) and 26 (0.40)
<b>Insulation</b>	Dual insulation consisting of an inner layer of foamed, natural polyolefin over which is applied a solid (skin) layer of polyolefin colored in accordance with industry standards
<b>Twisted Pairs</b>	Individual insulated conductors; twisted into pairs with varying lay lengths; specific color combinations provide pair identification
<b>≤ 25-Pair Core</b>	Pairs are assembled into a cylindrical core
<b>&gt; 25-Pair Core</b>	Cables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded binders
<b>Filling Compound</b>	80°C ETPR compound, completely filling the interstices between the pairs and under the core wrap
<b>Core Wrap</b>	Non-hygroscopic, dielectric tape applied over the core
<b>Shield</b>	Corrugated, copolymer coated, 8 mil aluminum tape applied longitudinally with an overlap; flooded shield interfaces
<b>Jacket</b>	Black, polyethylene
<b>Jacket Marking</b>	Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals
<b>Standards Compliance</b>	ANSI/ICEA S-84-608-2007 RDUP 7 CFR 1755.890 (PE-89) RoHS-compliant

## Product Description

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

## Applications

- Low risk direct burial
- Underground conduit
- Lashed aerial

## Features

- Twisted into pairs with varying lay lengths
- Core wrap
- Filled core
- Fully flooded shield interfaces
- Black, polyethylene jacket

## Benefits

- Minimizes crosstalk
- Provides thermal protection
- Moisture resistant
- Inhibits corrosion and water migration
- 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 mile (km)	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential – Volts	
				Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.2 (10.5)	45.0 (28.0)	1.5	5.0	4,500	10,000
22 (0.64)	1.0 (1.6)	4.5 (14.8)	91.0 (56.5)	1.5	5.0	3,600	10,000
24 (0.51)	1.0 (1.6)	5.6 (18.4)	144.0 (89.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.0 (23.3)	232.0 (144.0)	1.5	5.0	2,400	10,000

\*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

Minimum Near End Crosstalk (NEXT) @ 772 kHz	
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

Minimum Far End Crosstalk (FEXT) @ 772 kHz				
Conductor Size (AWG)	19	22	24	26
PSELFEXT Mean (dB/kft)	51	49	49	47
PSELFEXT Worst Pair (dB/kft)	45	43	43	43



## 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)	Approx. Shipping Weight lbs (kg)	Reel Size F x T x D in
09-026-02	6	19 (0.90)	0.49 (12)	120 (180)	5,000 (1,524)	710 (320)	44 x 18 x 20
09-028-02	12	19 (0.90)	0.59 (15)	190 (285)	5,000 (1,524)	1,115 (505)	46 x 25 x 20
09-031-02	25	19 (0.90)	0.78 (20)	355 (530)	5,000 (1,524)	1,980 (895)	52 x 25 x 20
09-034-02	50	19 (0.90)	1.03 (26)	655 (975)	5,000 (1,524)	3,565 (1,615)	62 x 30 x 24
09-038-02	100	19 (0.90)	1.37 (35)	1,225 (1,825)	2,500 (762)	3,430 (1,555)	65 x 30 x 32
09-057-02	6	22 (0.64)	0.39 (9.9)	70 (105)	5,000 (1,524)	415 (190)	36 x 18 x 14
09-059-02	12	22 (0.64)	0.47 (12)	115 (170)	5,000 (1,524)	685 (310)	44 x 18 x 20
09-062-02	25	22 (0.64)	0.60 (15)	200 (300)	5,000 (1,524)	1,165 (530)	46 x 25 x 20
09-065-02	50	22 (0.64)	0.77 (20)	350 (520)	5,000 (1,524)	1,955 (885)	52 x 25 x 20
09-069-02	100	22 (0.64)	1.02 (26)	650 (965)	5,000 (1,524)	3,540 (1,605)	62 x 30 x 24
09-073-02	200	22 (0.64)	1.38 (35)	1,225 (1,825)	2,500 (762)	3,350 (1,520)	62 x 30 x 24
09-075-02	300	22 (0.64)	1.65 (42)	1,800 (2,680)	1,250 (381)	2,495 (1,130)	58 x 25 x 20
09-077-02	400	22 (0.64)	1.88 (48)	2,365 (3,520)	1,250 (381)	3,245 (1,470)	62 x 30 x 24
09-081-02	600	22 (0.64)	2.28 (58)	3,505 (5,215)	1,250 (381)	4,995 (2,265)	72 x 35 x 36
09-083-02	900	22 (0.64)	2.76 (70)	5,195 (7,730)	1,250 (381)	7,290 (3,305)	84 x 40 x 42
09-085-02	1,200	22 (0.64)	3.14 (80)	6,845 (10,185)	1,250 (381)	9,730 (4,415)	96 x 40 x 48
09-087-02	1,500	22 (0.64)	3.51 (89)	8,520 (12,680)	1,000 (305)	9,695 (4,400)	96 x 40 x 48
09-092-02	6	24 (0.51)	0.36 (9.1)	55 (80)	5,000 (1,524)	320 (145)	36 x 18 x 14
09-094-02	12	24 (0.51)	0.42 (11)	85 (125)	5,000 (1,524)	490 (220)	36 x 18 x 14
09-097-02	25	24 (0.51)	0.52 (13)	140 (210)	5,000 (1,524)	810 (365)	44 x 18 x 20
09-100-02	50	24 (0.51)	0.66 (17)	240 (355)	5,000 (1,524)	1,365 (620)	46 x 25 x 20
09-104-02	100	24 (0.51)	0.85 (22)	430 (640)	5,000 (1,524)	2,395 (1,085)	58 x 25 x 20
09-108-02	200	24 (0.51)	1.14 (29)	810 (1,205)	5,000 (1,524)	4,665 (2,115)	72 x 35 x 36
09-110-02	300	24 (0.51)	1.37 (35)	1,180 (1,755)	2,500 (762)	3,320 (1,505)	65 x 30 x 32
09-112-02	400	24 (0.51)	1.55 (39)	1,545 (2,300)	2,500 (762)	4,475 (2,030)	72 x 35 x 36
09-116-02	600	24 (0.51)	1.88 (48)	2,285 (3,400)	1,250 (381)	3,145 (1,425)	62 x 30 x 24
09-118-02	900	24 (0.51)	2.25 (57)	3,350 (4,985)	1,250 (381)	4,800 (2,180)	72 x 35 x 36
09-120-02	1,200	24 (0.51)	2.57 (65)	4,420 (6,580)	1,250 (381)	6,225 (2,825)	78 x 40 x 39
09-121-02	1,500	24 (0.51)	2.86 (73)	5,490 (8,170)	1,000 (305)	6,190 (2,805)	78 x 40 x 39
09-124-02	1,800	24 (0.51)	3.12 (79)	6,560 (9,765)	1,000 (305)	7,355 (3,335)	84 x 40 x 42
09-125-02	2,100	24 (0.51)	3.40 (86)	7,690 (11,445)	1,000 (305)	8,865 (4,020)	96 x 40 x 48
09-126-02	2,400	24 (0.51)	3.59 (91)	8,695 (12,940)	1,000 (305)	9,870 (4,475)	96 x 40 x 48
09-132-02	25	26 (0.40)	0.44 (11)	100 (150)	5,000 (1,524)	565 (255)	36 x 18 x 14
09-135-02	50	26 (0.40)	0.55 (14)	165 (245)	5,000 (1,524)	990 (450)	46 x 25 x 20
09-139-02	100	26 (0.40)	0.71 (18)	290 (430)	5,000 (1,524)	1,655 (750)	52 x 25 x 20
09-143-02	200	26 (0.40)	0.94 (24)	535 (795)	5,000 (1,524)	2,965 (1,345)	62 x 30 x 24
09-145-02	300	26 (0.40)	1.09 (28)	755 (1,125)	5,000 (1,524)	4,390 (1,990)	72 x 35 x 36
09-147-02	400	26 (0.40)	1.25 (32)	995 (1,480)	2,500 (762)	2,735 (1,240)	58 x 25 x 20
09-151-02	600	26 (0.40)	1.49 (38)	1,455 (2,165)	2,500 (762)	4,250 (1,930)	72 x 35 x 36
09-153-02	900	26 (0.40)	1.78 (45)	2,120 (3,155)	1,250 (381)	3,020 (1,370)	65 x 30 x 32
09-155-02	1,200	26 (0.40)	2.03 (52)	2,785 (4,145)	1,250 (381)	4,095 (1,860)	72 x 35 x 36
09-156-02	1,500	26 (0.40)	2.28 (58)	3,480 (5,180)	1,250 (381)	4,965 (2,250)	72 x 35 x 36
09-157-02	1,800	26 (0.40)	2.48 (63)	4,150 (6,175)	1,250 (381)	5,885 (2,670)	78 x 40 x 39
09-159-02	2,400	26 (0.40)	2.86 (73)	5,515 (8,210)	1,250 (381)	8,070 (3,660)	96 x 40 x 48
09-164-02	3,600	26 (0.40)	3.45 (88)	8,165 (12,150)	1,000 (305)	9,340 (4,235)	96 x 40 x 48

**TECH TIP**

Product FAQs for OSP copper cables are available online:  
[www.SuperiorEssex.com/comm/productFAQs.aspx](http://www.SuperiorEssex.com/comm/productFAQs.aspx)

