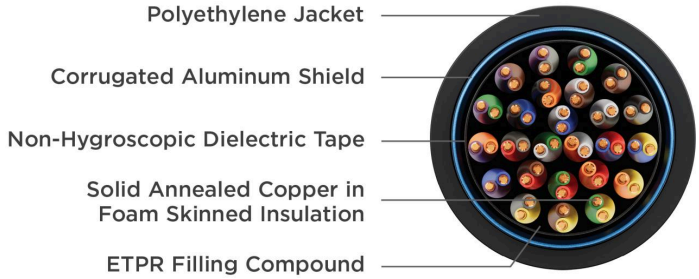
SEALPIC®–FSF / RDUP/RUS / PE-89 / 25 Pairs / 24 AWG / Corrugated Aluminum

09-097-02

Status: Available





GENERAL SPECIFICATIONS

Jacket	PE
Jacket Color	Black
FIlling Compound	ETPR
Standards Compliance	ANSI/ICEA S-84-608-2012 RDUP 7 CFR 1755.890 (PE-89) RoHS-compliant
Pair Core	Cables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded binders
Conductor	Bare Copper
Conductor Type	Solid
Conductor Description	Solid annealed copper
Conductor Count	50
AWG (mm)	24 (0.51)
Insulation	Foam-Skin Polyolefin
Insulation Colors	Standard USA Color Code Scheme
Twisted Pairs	Individual insulated conductors; twisted into pairs with varying lay lengths; specific color combinations provide pair identification
Core Wrap	Non-hygroscopic dielectric tape

GENERAL SPECIFICATIONS

Shield Description	Corrugated, copolymer coated, 8 mil aluminum tape

ELECTRICAL SPECIFICATIONS

Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)	83 ± 4 (52 ± 2)
Capacitance Unbalance Pair to Pair @ 1 kHz Maximum Individual pF @ 1 kft (pF @ 1 km)	80 (145)
Capacitance Unbalance Pair to Pair @ 1 kHz Maximum RMS pF @ 1 kft (pF @ 1 km)	25 (45)
Capacitance Unbalance Pair to Ground @ 1 kHz Maximum Individual pF @ 1 kft (pF @ 1 km)	800 (2,625)
Capacitance Unbalance Pair to Ground @ 1 kHz Maximum Average pF @ 1 kft (pF @ 1 km)	175 (574)
Minimum Insulation Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	1.0 (1.6)
Maximum Average Attenuation @ 772 kHz, 68°F (20°C) dB/kft (dB/km)	5.6 (18.4)
Maximum Conductor Resistance @ 68°F (20°C) Ohms/sheath mile (km)	144.0 (89.5)
DC Resistance Unbalance Maximum % Average	1.5
DC Resistance Unbalance Maximum % Individual Pair	5.0
Dielectric Strength DC Potential – Volts Conductor to Conductor	3,000
Dielectric Strength DC Potential – Volts Conductor to Shield	10,000
Minimum Near End Crosstalk (NEXT) @ 772 kHz PSWUNEXT Mean (dB)	47
Minimum Near End Crosstalk (NEXT) @ 772 kHz PSWUNEXT Worst Pair (dB)	42
Minimum Far End Crosstalk (FEXT) @ 772 kHz PSELFEXT Mean (dB/kft)	49
Minimum Far End Crosstalk (FEXT) @ 772 kHz PSELFEXT Worst Pair (dB/kft)	43

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PHYSICAL CHARACTERISTICS

Nominal Diameter in (mm)	0.52 (13.0)
Nominal Weight lbs/kft (kg/km)	140 (210)
Package Length	5,000
Package Type	Reel
Standard Length ft (m)	5,000 (1,524)
Approx. Shipping Weight lbs (kg)	810 (365)
Reel Size F x T x D in	44 x 18 x 20
Operating Temp. Range	-49°F to +176°F (-45°C to +80°C)
Storage/Shipping Temp. Range	-49°F to +176°F (-45°C to +80°C)
Installation Temp. Range	-22°F to +140°F (-30°C to +60°C)

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. Part number 09-097-02 is a 25-pair, 24 AWG RDUP/RUS PE-89 cable with a corrugated aluminum shield and a black polyethylene jacket. Nominal diameter is 0.52 (13.0) in (mm) with an approximate weight of 140 (210) lbs/kft (kg/km). Standard length is 5,000 (1,524) ft (m) with an approximate shipping weight of 810 (365) lbs (kg).

Applications

- Low risk direct burial
- Underground conduit
- Lashed aerial

Features	Benefits
• Twisted into pairs with varying lay lengths	• Minimizes crosstalk
• Core wrap	• Provides thermal protection
• Filled core	• Moisture resistant
• Fully flooded shield interfaces	• Inhibits corrosion and water migration
• Black, polyethylene jacket	• Provides a tough, protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

Technical Guideline

Technical Guideline TG103 "Mechanical Protection (+M) for Extreme Risk Environments" describes the +M feature available on this cable for extreme direct burial or lashed aerial installations. Click here for more information.

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