Telephone and Communication Cables DSAP-FSF: Foam / skin Insulation Alpeth Sheathed filled Cable with Core Separator

Polyethylene Outer Sheath (Black)
Non-Hygroscopic Tape
Flooding Compound
Core Separator Tape
Filling Compound
Aluminum Shield
Foam-skin Insulated Conductor

Detail Description or Construction

Conductor
0.65 mm solid annealed copper.

Insulation
Foam-skin polyethylene or polypropylene insulated.

Pairs
Two insulated conductors twisted.

Lay-up
Unit construction for cables more than 25 pairs. Concentric for cables up to 25 pairs.

Core-separator
A plastic coated Al tape is applied in a continuous length to physically separate the core into two compartment.

Filling Compound
The interstices between the pairs are filled with a filling compound.

Core-Covering
Non-hygroscopic tape with a high dielectric strength.

Shield
A corrugated plastic coated 0.2 mm aluminum tape is applied longitudinally with overlap.

Flooding Compound
The interstices between non-hygroscopic tape and shield,shield and sheath are filled with a flooding compound.

Sheath
Polyethylene (Black).

Application
The cable is designed for high frequency transmission and shall be used on junction network for underground (duct) or lashed to an aerial suspension strand

Standards / Testing Specifications

• ICEA S-84-608

Marking
PDTL Year of manufacture DSAP-FSF
size x No. of pair P Length of cable.

Installation
DSAP-FSF cable can be installed on junction network for underground (duct) or lashing. It is recommended that the installation instructions indicated by the Local Electric Code, or any equivalent, be followed, so that the safe guarding of persons and the integrity of the product will not be affected by deficiencies in the installation.

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ELECTRICAL CHARACTERISTICS OF THE COMMUNICATION CABLES @ 25ºC ± 3ºC			
	Conductor Size AWG		22
	Conductor Diameter (Nominal)	mm	0.65
The Average Mutual Capacitance of any reel @ 1000 Hz	Shall not exceed	nF / km	41 ± 2
Mutual Conductance of any pair @ 1000 Hz	Shall not exceed	µ℧ / km	2
The RMS pair to pair capacitance unbalance as measured on the completed cable @ 1000 Hz	Shall not exceed	pF / km	45
Insulation Resistance	Minimum	MΩ - km	1,600
Conductor Resistance @ 20°C	Maximum	Ω / km	57.1
High Voltage Test	Conductor to conductor (3 seconds)	kV - dc	3.5
	Conductor to shield (3 seconds)	kV - dc	10
Capacitance Unbalance pair to ground @ 1000 Hz	Maximum individual	pF / km	2625
	Maximum average	pF / km	656

** Minimum bending diameter shall not less than 18 tims the cable overall diameter.

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Conductor	Number of Pairs	Phelps Dodge Type Letter	Nominal Sheath Thickness	Approximate Overall Diameter	Approximate Cable Weight	Standard Length
mm			mm	mm	kg / km	m
0.65	50	22 FSF-S 050	1.5	27.0	690	1,000/R
	100	22 FSF-S 100	1.8	35.5	1,270	1,000/R
	200	22 FSF-S 200	2.3	48.5	2,390	500/R
	300	22 FSF-S 300	2.5	58.0	3,480	300/R
	400	22 FSF-S 400	2.8	66.0	4,525	250/R
	600	22 FSF-S 600	2.8	78.5	6,630	250/R

R = Packing in reel