



Detail Description or Construction

Conductor

0.4, 0.5, 0.65 or 0.9 mm annealed copper, solid.

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.

Filling Compound

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

Core-Covering

Non-hygroscopic tape with a high dielectric strength.

Shield

Plastic coated Aluminum tape, thickness 0.2 mm laid on with overlap. The aluminum tape is corrugated for every size of cables.

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 underground (duct) or lashed to an aerial suspension strand in either exchange area service or trunk service.

Standards / Testing Specifications

- ICEA S-84-608

Marking

PDTL Year of manufacture AP-FSF (size x No. of pair) P Length of cable.

Installation

AP-FSF cable can be installed in underground 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.



AP-FSF

Telephone and Communication Cables AP-FSF: Foam/skin Insulation Alpth Sheathed Filled Cable

ELECTRICAL CHARACTERISTICS OF THE COMMUNICATION CABLES @ 25°C ± 3°C

	Conductor Size AWG		26	24	22	19
	Conductor Diameter (Nominal)	mm	0.4	0.5	0.65	0.9
Mutual Capacitance @ 1000 Hz	Average Cm for; 25 pairs and larger	nF / km	52 ± 2	52 ± 2	52 ± 2	52 ± 2
	Less than 25 pairs	nF / km	52 ± 4	52 ± 4	52 ± 4	52 ± 4
Mutual Conductance of any pair @ 1000 Hz	Shall not exceed	μS / km	2	2	2	2
The RMS Pair to Pair Capacitance Unbalance	measured on the completed cable @ 1000 Hz shall not exceed	pF/km	45	45	45	45
Insulation Resistance	Minimum	MΩ-km	1,600	1,600	1,600	1,600
Conductor Resistance @ 20°C	Maximum	Ω / km	144.4	90.2	57.1	28.5
High Voltage Test	Conductor to conductor (3 seconds)	kV-dc	2.0	2.0	3.5	3.5
	Conductor to shield (3 seconds)	kV-dc	5.0	5.0	10.0	10.0
Capacitance Unbalance pair to ground @ 1000 Hz	maximum individual	pF/km	2625	2625	2625	2625
	maximum average	pF/km	656	656	656	656



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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
0.4	25	26 AP-FSF 025	1.5	12.5	170	1,000/R
	50	26 AP-FSF 050	1.5	16	280	1,000/R
	100	26 AP-FSF 100	1.5	20	470	1,000/R
	200	26 AP-FSF 200	1.5	25	850	1,000/R
	300	26 AP-FSF 300	1.8	30	1,230	1,000/R
	400	26 AP-FSF 400	1.8	33.5	1,580	500/R
	600	26 AP-FSF 600	2.0	40	2,300	500/R
	900	26 AP-FSF 900	2.3	48	3,380	200/R
	1200	26 AP-FSF 1200	2.3	54	4,400	200/R
	1500	26 AP-FSF 1500	2.5	60	5,440	200/R
	1800	26 AP-FSF 1800	2.8	65.5	6,500	200/R
	2100	26 AP-FSF 2100	2.8	70	7,500	200/R
	2400	26 AP-FSF 2400	2.8	74.5	8,500	200/R
	2700	26 AP-FSF 2700	2.8	78.5	9,500	200/R
	3000	26 AP-FSF 3000	2.8	82	10,500	200/R



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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
0.5	25	24 AP-FSF 025	1.5	15	240	1,000/R
	50	24 AP-FSF 050	1.5	18.5	400	1,000/R
	100	24 AP-FSF 100	1.5	23.5	720	1,000/R
	200	24 AP-FSF 200	1.8	31	1,310	500/R
	300	24 AP-FSF 300	2.0	37	1,890	500/R
	400	24 AP-FSF 400	2.0	41.5	2,450	350/R
	600	24 AP-FSF 600	2.3	50	3,620	250/R
	900	24 AP-FSF 900	2.5	59.5	5,270	200/R
	1200	24 AP-FSF 1200	2.8	68	6,940	200/R
	1500	24 AP-FSF 1500	2.8	75	8,550	200/R
	1800	24 AP-FSF 1800	2.8	81.5	10,160	200/R
	2100	24 AP-FSF 2100	2.8	87.5	11,750	200/R



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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	10	22 AP-FSF 010	1.5	12.5	110	1,000/R
	25	22 AP-FSF 025	1.5	16.5	340	1,000/R
	50	22 AP-FSF 050	1.5	21	580	1,000/R
	100	22 AP-FSF 100	1.8	28	1,090	1,000/R
	200	22 AP-FSF 200	2.0	37.5	2,020	500/R
	300	22 AP-FSF 300	2.3	45.5	2,980	250/R
	400	22 AP-FSF 400	2.3	51.5	3,870	250/R
	600	22 AP-FSF 600	2.5	61.5	5,660	200/R
	900	22 AP-FSF 900	2.8	74	8,320	150/R
1200	22 AP-FSF 1200	2.8	84	10,910	150/R	
0.9	10	19 AP-FSF 010	1.5	15.5	290	1,000/R
	25	19 AP-FSF 025	1.5	22.5	610	1,000/R
	50	19 AP-FSF 050	1.8	29.5	1,120	500/R
	100	19 AP-FSF 100	2.0	39	2,060	500/R
	200	19 AP-FSF 200	2.3	53.5	3,930	250/R
	300	19 AP-FSF 300	2.5	63.5	5,740	200/R
	400	19 AP-FSF 400	2.8	73	7,560	150/R
600	19 AP-FSF 600	2.8	87.5	11,090	150/R	