

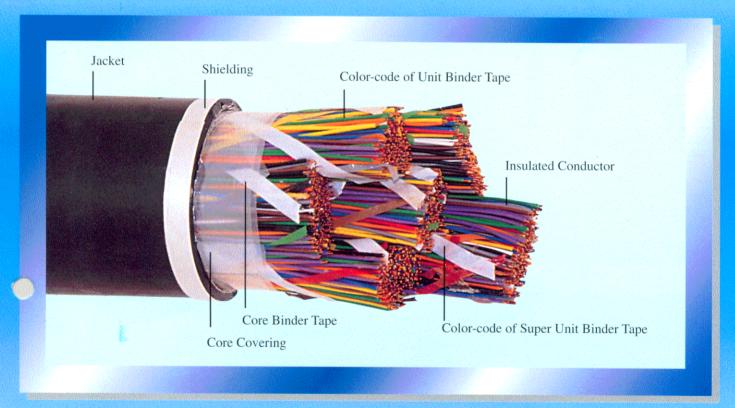
Type: AP







ALPETH SHEATHED CABLE



GENERAL

This specification covers the requirements for polyethylene insultion alpeth sheathed cable, intended for aerial installation by attachment to a separate support strand. The cable shall be used on subscriber and junction line.

CONSTRUCTION

CONDUCTOR: Annealed copper cenductor.

0.40, 0.50, 0.65 and 0.90 mm (26, 24, 22, 19 AWG) in size.

INSULATION: Polyethylene insulation.

TWISTED PAIRS: The insulated conductors are twisted into pairs with specified color combinations to provide pairs identification.

CABLE ASSEMBLY: Cables having 25 pairs and less are assembled in a single group. Cables having more than 25 pairs are assembled in units each being identifiable by color coded unit binders.

IDENTIFICATION TAPE: A tape, indelibly marked with the following details, shall be laid over the cable core or under the outer lapping tape (nonhygroscopic dielectric material)

OPTION AND OTHER CONSTRUCTIONS

a. Manufacturers Name

b. Year of Manufacture (Duration of two years)

Or the marking shall be printed on the outer lapping tape. The marking shall appear at intervals not more than 50 cm throughout the cable length.

CORE COVERING: Nonhygroscopic dielectric tape.

SHIELDING: A corrugated polyethylene coated 0.2 mm aluminum tape is applied longitudinally with overlap

OUTER JACKET: High molecular weight, low or medium density polyethylene colored black,.

LENGTH MARKER: Each length of cable shall be permanently identified as, manufacturer name, year of manufacturer, type and size of cable, and sequencially numbered length. The marking shall be printed on the outer jacket. An alternate method of marking may be used if acceptable to the **CLIENT.**

Cable of other conductor size or having other mutual capacitance than shown in this catalogue are available on request.

No. of	Conductor Diameter: 0.40 mm (26 AWG)			No. of	Conductor Diameter: 0.50 mm (24 AWG)			
Pairs nominal	Overall Dia. approx. (mm)	Cable Wt. approx. (kg/km)	Standard Length (m)	Pairs nominal	Overall Dia. approx. (mm)	Cable Wt. approx. (kg/km)	Standard Length (m)	
10	10	86	1,000	4	9	74	1,000	
12	10	95	1,000	5	10	81	1,000	
13	10	99	1,000	6	10	88	1,000	
A STATE OF SAME OF A SAME				8 10	11 11	101 112	1,000	
15	. 11	108	1,000	11	11	112	1,000 1,000	
16	- 11	112	1,000	12	11	125	1,000	
20	11	128	1,000	13	12	130	1,000	
25	12	148	1,000	15	12	144	1,000	
30	13	169	1,000	16	12	149	1,000	
40	14	206	1,000	20	13	173	1,000	
	The second of th			25 30	14 15	203 233	1,000 1,000	
50	15	242	1,000	40	16	291	1,000	
75	17	330	1,000	50	17	344	1,000	
100	19	415	1,000	75	20	479	1,000	
150	22	584	1,000	100	22	612	1,000	
200	24	747	1,000	150	27	877	1,000	
300	30	1,105	1,000	200 250	31 33	1,155	1,000	
				300	36	1,406 1,679	1,000 500	
400	33	1,424	1,000	400	41	2,174	500	
600	40	2,065	500	500	45	2,665	500	
700	43	2,375	500	600	49	3,190	500	
800	46	2,723	500	700	52	3,676	250	
900	48	3,343	500	800 900	56	4,193	250	
1,200	54	3,956	250	1,000	59 61	4,675 5,158	250 250	
				1,200	67	6,175	250 250	
1,500	60	4,903	250	1,500	74	7.613	200	
1,800	65	5,871	250	1,800	80	9,044	200	

All cable dimensions and weights are subject to manufacturing tolerances. Spare pairs may be included at the manufacturer's discretion.

No. of	Conductor Diameter: 0.65 mm (22 AWG)			No. of	Conductor Diameter: 0.90 mm (19 AWG)			
Pairs nominal	Overall Dia. approx. (mm)	Cable Wt. approx. (kg/km)	Standard Length (m)	Pairs nominal	Overall Dia. approx. (mm)	Cable Wt. approx. (kg/km)	Standard Length (m)	
3 4 5 6 8 10	10 10 11 11 12 12	79 90 102 110 129 147	1,000 1,000 1,000 1,000 1,000 1,000	2 3 4 5 6 8	11 12 12 13 14	93 114 136 156 174 207	1,000 1,000 1,000 1,000 1,000 1,000	
12 13 15 16 20 25	13 13 14 14 15	165 173 192 202 236 281	1,000 1,000 1,000 1,000 1,000 1,000	10 12 13 15	15 16 16 17	207 241 274 292 326 344	1,000 1,000 1,000 1,000 1,000	
30 40 50 75 100 150	17 19 20 23 27 32	324 408 490 698 904 1,314	1,000 1,000 1,000 1,000 1,000	20 25 30 35 40	19 21 22 24 25	411 497 584 664 746	1,000 1,000 1,000 1,000	
200 300 400 500 600 700 800	36 43 49 54 59 63 67	1,720 2,486 3,287 4,040 4,820 5,568 6,369	500 500 500 250 250 250 250	50 75 100 150 200 300	29 34 38 46 51 61	937 1,330 1,739 2,542 3,305 4,848	1,000 1,000 1,000 500 500 250 250	
C TOTAL CONTRACTOR OF THE CONT				State of the State				

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ELECTRICAL CHARACTERISTICS

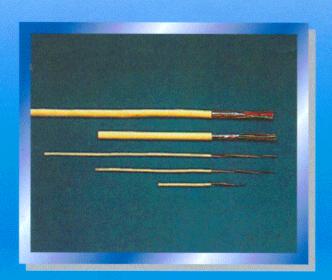
	Conductor Diameter mm (AWG)					0.65 (22)	0.90 (19)	
Mutual Capac	itance, Average,	nF./km	≤ 25 Pairs	52 ± 4				
			> 25 Pairs	52 ± 2				
	itance Deviation,	T	rms. Maximum	3				
Capacitance Unbalance	Pair to pair	6 pairs or less Individual Maximum		181				
PF/km		More than 6 pairs rms. Maximum			45			
	Pair to	All cables Individual Maximum			2,625			
	Ground	6 pairs and larger Maximum Average			574			
Far End Crosstalk Loss at			rms. Minimum	67.8				
150 kHz, dB/km			Individual Minimum	57.8				
		Within Unit	13 pairs of less	56				
Near End Cros	sstalk Loss		18 and 25 pairs	60				
M-S at 772 kHz, dB		Between	Adjacent 13 pairs or less	65				
3 72 1112, 01		Units	Adjacent 25 pairs	66				
			Non-adjacent		81			
	Attenution Nominal IB/km at 20°c		at 150 kHz	11.35	8.31	6.20	4.40	
dB/km at 20°			at 772 kHz	22.83	18.52	14.63	10.40	
Insulation Res	sistance, Megohn	ı-km	Minimum	16,000				
High Voltage			Conductor to Conductor	2,400 3,000 3,600 4,50				
dc for 3 sec., v	volts		Conductor to Shield	10,000				
DC Conductor Resistance, ohms/km, at 20 ° C Resisitance Unbalance			Maximum	144.4	90.2	57.1	28.5	
			Maximum Average	2.0	1.5	1.5	1.5	
%			Individual Maximum	5.0	5.0	4.0	4.0	
	riations are Allow Imber of Pairs with Nominal Pair Count	red as Follows: th Electrical Variation Maximum Num with Electrical						
up to - 100			1					
	101 - 300		2					
301 - 400			3					
			4					
	601 and above		6					
Variation Valu	ies							
Capacitance U								
Pair to Ground, PF/km			Individual Maximum	3,280				
DC Conductor Resistance at 20° c, ohms/km			Maximum	151.6	94.5	60.0	29.9	
Resistance Unbalance, %			Individual Maximum	7.0				
Far End Crosstalk Loss at 150 kHz, dB/km			Individual	51.8				



TELEPHONE CABLE OUTSIDE BUILDING

AP AP-FSF
AP(8) ASP-FSF
PAP AP-FSF-SWA
AP-LOW-LOSS DSAP-FSF
DSAP-PIC DSAP-FSF-SWA

OTHERS



INSIDE BUILDING

TPVV, TPUVV
TPEV-CC
TIEV-CC
TIEV-P
TJV
OTHERS



TELEPHONE & ELECTRICAL CONDUIT

PE SUB-DUCT EFLEX PIPE AND ACCESSORY



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