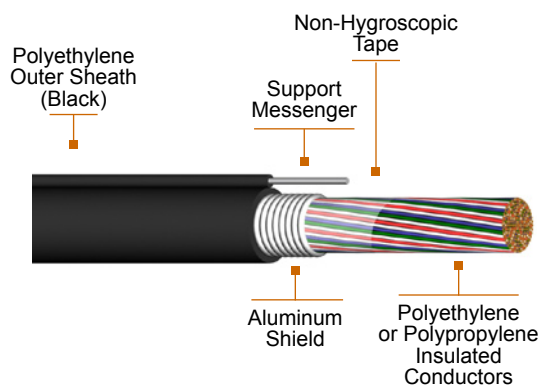


Telephone and Communication Cables AP(8): figure 8 Alpeh Sheathed Cable



Detail Description or Construction

Conductor

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

Insulation

Polyethylene or Polypropylene.

Pairs

Two insulated conductors twisted.

Lay-up

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

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.

Support

7/2.03 mm extra high strength grade messenger galvanized steel wire, breaking load 29581 N (3,016 Kg).

Sheath

Polyethylene (Black).

Web Width

2.5 mm Nominal.

Web Height

3.0 mm Nominal.

Application

For exchange area telephone distribution lines, It is designed, especially for aerial installation by using the support messenger.

Standards / Testing Specifications

- ICEA S-85-625.

Marking

PDTL Year of manufacture AP(8)

Size x No. of Pair P Length of cable.

Installation

AP(8) cable can be installed in aerial. 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.

Telephone and Communication Cables AP(8): figure 8 Alpeh Sheathed 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	Shell not exceed	µS / km	2	2	2	2
Capacitance Unbalance Pair to Pair @ 1000 Hz	For up to 6 pairs cable, maximum individual	pF / km	181	181	181	181
	For more then 6 pairs cable, maximum rms	pF / km	45	45	45	45
Insulation Resistance	Minimum	MΩ - km	16,000	16,000	16,000	16,000
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	2.4	3.0	3.6	4.5
	Conductor to shield (3 seconds)	kV - dc	10	10	10	10
Attenuation @ 1000 Hz	Nominal	dB / km	1.80	1.43	1.11	0.77
Capacitance Unbalance pair to ground @ 1000 Hz	For up to 6 pairs cable, maximum individual	pF / km	2625	2625	2625	2625
	For more than 6 pairs cable, maximum individual	pF / km	2625	2625	2625	2625
	For more than 6 pairs cable, maximum average	pF / km	574	574	574	574

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



AP(8)

Telephone and Communication Cables AP(8): figure 8 Alpeh Sheathed Cable

Conductor mm	Number of Pairs	Phelps Dodge Type Letter	Support Messenger Wire Diameter mm	Nominal Sheath Thickness		Approximate Overall Dimension			Approximate Cable Weight kg / km	Standard Length m
				Support Messenger mm	Cable Core mm	mm				
						d	D	H		
0.4	3	26 AP (8) 003	2.03	1.5	1.5	9.1	8.0	20.0	245	1,000/R
	5	26 AP (8) 005	2.03	1.5	1.5	9.1	8.5	20.5	250	1,000/R
	6	26 AP (8) 006	2.03	1.5	1.5	9.1	9.0	21.0	260	1,000/R
	10	26 AP (8) 010	2.03	1.5	1.5	9.1	9.5	21.5	270	1,000/R
	12	26 AP (8) 012	2.03	1.5	1.5	9.1	10.0	22.0	280	1,000/R
	15	26 AP (8) 015	2.03	1.5	1.5	9.1	10.5	22.5	290	1,000/R
	20	26 AP (8) 020	2.03	1.5	1.5	9.1	11.0	23.5	310	1,000/R
	25	26 AP (8) 025	2.03	1.5	1.5	9.1	12.0	24.0	330	1,000/R
	30	26 AP (8) 030	2.03	1.5	1.5	9.1	12.5	24.5	350	1,000/R
	40	26 AP (8) 040	2.03	1.5	1.5	9.1	13.5	25.5	390	1,000/R
	50	26 AP (8) 050	2.03	1.5	1.5	9.1	14.5	26.5	410	1,000/R
	75	26 AP (8) 075	2.03	1.5	1.5	9.1	16.5	28.5	490	1,000/R
	100	26 AP (8) 100	2.03	1.5	1.5	9.1	18.0	30.0	570	1,000/R
	150	26 AP (8) 150	2.03	1.5	1.5	9.1	21.0	33.0	730	1,000/R
	200	26 AP (8) 200	2.03	1.5	1.5	9.1	23.5	36.0	880	500/R
	300	26 AP (8) 300	2.03	1.5	1.5	9.1	27.5	39.5	1,220	500/R
	400	26 AP (8) 400	2.03	1.8	1.8	9.7	31.5	44.0	1,490	500/R

R = Packing in reel



AP(8)

Telephone and Communication Cables AP(8): figure 8 Alpeh Sheathed Cable

Conductor mm	Number of Pairs	Phelps Dodge Type Letter	Support Messenger Wire Diameter mm	Nominal Sheath Thickness		Approximate Overall Dimension			Approximate Cable Weight kg / km	Standard Length m
				Support Messenger mm	Cable Core mm	mm				
						d	D	H		
0.5	3	24 AP (8) 003	2.03	1.5	1.5	9.1	8.5	20.5	250	1,000/R
	5	24 AP (8) 005	2.03	1.5	1.5	9.1	9.5	21.5	260	1,000/R
	6	24 AP (8) 006	2.03	1.5	1.5	9.1	9.5	22.0	265	1,000/R
	10	24 AP (8) 010	2.03	1.5	1.5	9.1	11.0	23.0	290	1,000/R
	12	24 AP (8) 012	2.03	1.5	1.5	9.1	11.5	23.5	310	1,000/R
	15	24 AP (8) 015	2.03	1.5	1.5	9.1	12.0	24.0	330	1,000/R
	20	24 AP (8) 020	2.03	1.5	1.5	9.1	13.0	25.0	350	1,000/R
	25	24 AP (8) 025	2.03	1.5	1.5	9.1	14.0	26.0	380	1,000/R
	30	24 AP (8) 030	2.03	1.5	1.5	9.1	14.5	26.5	420	1,000/R
	40	24 AP (8) 040	2.03	1.5	1.5	9.1	16.0	28.0	470	1,000/R
	50	24 AP (8) 050	2.03	1.5	1.5	9.1	17.0	29.0	510	1,000/R
	75	24 AP (8) 075	2.03	1.5	1.5	9.1	19.5	31.5	630	1,000/R
	100	24 AP (8) 100	2.03	1.5	1.5	9.1	22.5	34.5	760	1,000/R
	150	24 AP (8) 150	2.03	1.5	1.5	9.1	26.0	38.0	1,000	500/R
	200	24 AP (8) 200	2.03	1.8	1.8	9.7	29.5	42.5	1,260	500/R
	300	24 AP (8) 300	2.03	1.8	1.8	9.7	34.5	47.5	1,720	350/R

R = Packing in reel



AP(8)

Telephone and Communication Cables AP(8): figure 8 Alpeh Sheathed Cable

Conductor mm	Number of Pairs	Phelps Dodge Type Letter	Support Messenger Wire Diameter mm	Nominal Sheath Thickness		Approximate Overall Dimension			Approximate Cable Weight kg / km	Standard Length m
				Support Messenger mm	Cable Core mm	mm				
						d	D	H		
0.65	3	22 AP (8) 003	2.03	1.5	1.5	9.1	9.5	21.5	260	1,000/R
	5	22 AP (8) 005	2.03	1.5	1.5	9.1	10.5	22.5	280	1,000/R
	6	22 AP (8) 006	2.03	1.5	1.5	9.1	11.0	23.0	290	1,000/R
	10	22 AP (8) 010	2.03	1.5	1.5	9.1	12.5	24.5	320	1,000/R
	12	22 AP (8) 012	2.03	1.5	1.5	9.1	13.0	25.0	350	1,000/R
	15	22 AP (8) 015	2.03	1.5	1.5	9.1	13.5	26.0	380	1,000/R
	20	22 AP (8) 020	2.03	1.5	1.5	9.1	15.0	27.0	420	1,000/R
	25	22 AP (8) 025	2.03	1.5	1.5	9.1	16.0	28.0	450	1,000/R
	30	22 AP (8) 030	2.03	1.5	1.5	9.1	17.0	29.0	510	1,000/R
	40	22 AP (8) 040	2.03	1.5	1.5	9.1	19.0	31.0	590	1,000/R
	50	22 AP (8) 050	2.03	1.5	1.5	9.1	20.5	32.5	650	1,000/R
	75	22 AP (8) 075	2.03	1.5	1.5	9.1	24.0	36.5	850	500/R
	100	22 AP (8) 100	2.03	1.5	1.5	9.1	27.0	39.0	1,040	500/R
	150	22 AP (8) 150	2.03	1.8	1.8	9.7	32.0	45.0	1,430	500/R
	200	22 AP (8) 200	2.03	2.0	2.0	10.1	36.5	49.5	1,820	350/R
	300	22 AP (8) 300	2.03	2.0	2.0	10.1	43.5	56.5	2,570	250/R

R = Packing in reel



AP(8)

Telephone and Communication Cables AP(8): figure 8 Alpeh Sheathed Cable

Conductor mm	Number of Pairs	Phelps Dodge Type Letter	Support Messenger Wire Diameter mm	Nominal Sheath Thickness		Approximate Overall Dimension			Approximate Cable Weight kg / km	Standard Length m
				Support Messenger mm	Cable Core mm	mm				
						d	D	H		
0.9	3	19 AP (8) 003	2.03	1.5	1.5	9.1	11.0	23.0	290	1,000/R
	5	19 AP (8) 005	2.03	1.5	1.5	9.1	12.5	24.5	330	1,000/R
	6	19 AP (8) 006	2.03	1.5	1.5	9.1	13.0	25.0	350	1,000/R
	10	19 AP (8) 010	2.03	1.5	1.5	9.1	15.0	27.5	410	1,000/R
	12	19 AP (8) 012	2.03	1.5	1.5	9.1	16.0	28.0	450	1,000/R
	15	19 AP (8) 015	2.03	1.5	1.5	9.1	17.5	29.5	500	1,000/R
	20	19 AP (8) 020	2.03	1.5	1.5	9.1	19.0	31.0	580	1,000/R
	25	19 AP (8) 025	2.03	1.5	1.5	9.1	20.5	33.0	650	1,000/R
	30	19 AP (8) 030	2.03	1.5	1.5	9.1	22.5	35.0	770	1,000/R
	40	19 AP (8) 040	2.03	1.5	1.5	9.1	25.5	37.5	920	1,000/R
	50	19 AP (8) 050	2.03	1.5	1.5	9.1	27.5	39.5	1,040	500/R
	75	19 AP (8) 075	2.03	1.8	1.8	9.7	33.0	45.5	1,430	500/R
	100	19 AP (8) 100	2.03	2.0	2.0	10.1	37.0	50.5	1,810	350/R
	150	19 AP (8) 150	2.03	2.0	2.0	10.1	44.5	57.5	2,570	250/R
	200	19 AP (8) 200	2.03	2.3	2.3	10.7	51.0	64.5	3,440	250/R

R = Packing in reel