



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.

Sheath

Polyethylene (Black).

Application

For exchange area telephone distribution lines, principally for aerial installation by attachment to a support strand.

It may be used, however, in underground ducts where there is no damage due to mechanical abuse.

Standards / Testing Specifications

- ICEA S-85-625

Marking

PDTL Year of manufacture AP size x No. of pair P Length of cable.

Installation

AP cable can be installed in aerial and underground ducts. 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: 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

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Conductor	Number of pairs	Phelps Dodge Type letter	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Overall Diameter	Approximate Cable Weight	Standard Length
mm			mm	mm	mm	kg / km	m
0.4	3	26 AP 003	0.15	1.5	8	55	1,000/R
	5	26 AP 005	0.15	1.5	8.5	60	1,000/R
	6	26 AP 006	0.15	1.5	9	65	1,000/R
	10	26 AP 010	0.15	1.5	9.5	80	1,000/R
	12	26 AP 012	0.15	1.5	10	90	1,000/R
	15	26 AP 015	0.15	1.5	10.5	100	1,000/R
	20	26 AP 020	0.15	1.5	11	120	1,000/R
	25	26 AP 025	0.15	1.5	12	140	1,000/R
	30	26 AP 030	0.15	1.5	12.5	155	1,000/R
	40	26 AP 040	0.15	1.5	13.5	190	1,000/R
	50	26 AP 050	0.15	1.5	14.5	220	1,000/R
	75	26 AP 075	0.15	1.5	16.5	300	1,000/R
	100	26 AP 100	0.15	1.5	18	380	1,000/R
	150	26 AP 150	0.15	1.5	21	540	500/R
	200	26 AP 200	0.15	1.5	24	690	500/R
	300	26 AP 300	0.15	1.5	27.5	1,000	500/R
	400	26 AP 400	0.15	1.8	31.5	1,300	500/R
	600	26 AP 600	0.15	2.0	37.5	1,900	500/R
	900	26 AP 900	0.15	2.3	45.5	2,800	250/R

R = Packing in reel

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Conductor	Number of Pairs	Phelps Dodge Type Letter	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Overall Diameter	Approximate Cable Weight	Standard Length
mm			mm	mm	mm	kg / km	m
0.5	3	24 AP 003	0.2	1.5	8.5	60	1,000/R
	5	24 AP 005	0.2	1.5	9.5	70	1,000/R
	6	24 AP 006	0.2	1.5	10	75	1,000/R
	10	24 AP 010	0.2	1.5	11	100	1,000/R
	12	24 AP 012	0.2	1.5	11.5	120	1,000/R
	15	24 AP 015	0.2	1.5	12	130	1,000/R
	20	24 AP 020	0.2	1.5	13	160	1,000/R
	25	24 AP 025	0.2	1.5	14	190	1,000/R
	30	24 AP 030	0.2	1.5	14.5	220	1,000/R
	40	24 AP 040	0.2	1.5	16	270	1,000/R
	50	24 AP 050	0.2	1.5	17	320	1,000/R
	75	24 AP 075	0.2	1.5	19.5	440	1,000/R
	100	24 AP 100	0.2	1.5	22.5	570	1,000/R
	150	24 AP 150	0.2	1.5	26	810	500/R
	200	24 AP 200	0.2	1.8	29.5	1,070	500/R
	300	24 AP 300	0.2	1.8	35	1,530	500/R
	400	24 AP 400	0.2	2.0	39.5	2,010	500/R
	600	24 AP 600	0.2	2.3	48	2,980	350/R
	900	24 AP 900	0.2	2.5	57	4,415	250/R

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Conductor	Number of Pairs	Phelps Dodge Type Letter	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Overall Diameter	Approximate Cable Weight	Standard Length
mm			mm	mm	mm	kg / km	m
0.65	3	22 AP 003	0.25	1.5	9.5	70	1,000/R
	5	22 AP 005	0.25	1.5	10.5	90	1,000/R
	6	22 AP 006	0.25	1.5	11	100	1,000/R
	10	22 AP 010	0.25	1.5	12.5	130	1,000/R
	12	22 AP 012	0.25	1.5	13	160	1,000/R
	15	22 AP 015	0.25	1.5	13.5	180	1,000/R
	20	22 AP 020	0.25	1.5	15	230	1,000/R
	25	22 AP 025	0.25	1.5	16	260	1,000/R
	30	22 AP 030	0.25	1.5	17	310	1,000/R
	40	22 AP 040	0.25	1.5	19	390	1,000/R
	50	22 AP 050	0.25	1.5	20.5	460	1,000/R
	75	22 AP 075	0.25	1.5	24	660	1,000/R
	100	22 AP 100	0.25	1.5	27	850	500/R
	150	22 AP 150	0.25	1.8	32	1,240	500/R
	200	22 AP 200	0.25	2.0	36.5	1,630	500/R
	300	22 AP 300	0.25	2.0	43.5	2,380	350/R
	400	22 AP 400	0.25	2.3	50	3,120	250/R
	600	22 AP 600	0.25	2.5	59.5	4,610	250/R

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Conductor	Number of Pairs	Phelps Dodge Type Letter	Nominal Insulation Thickness	Nominal Sheath Thickness	Approximate Overall Diameter	Approximate Cable Weight	Standard Length
mm			mm	mm	mm	kg / km	m
0.9	3	19 AP 003	0.3	1.5	11	100	1,000/R
	5	19 AP 005	0.3	1.5	12.5	140	1,000/R
	6	19 AP 006	0.3	1.5	13	160	1,000/R
	10	19 AP 010	0.3	1.5	15	220	1,000/R
	12	19 AP 012	0.3	1.5	16	260	1,000/R
	15	19 AP 015	0.3	1.5	17.5	310	1,000/R
	20	19 AP 020	0.3	1.5	19	390	1,000/R
	25	19 AP 025	0.3	1.5	20.5	460	1,000/R
	30	19 AP 030	0.3	1.5	22.5	570	1,000/R
	40	19 AP 040	0.3	1.5	25.5	720	1,000/R
	50	19 AP 050	0.3	1.5	27.5	850	500/R
	75	19 AP 075	0.3	1.8	33	1,240	500/R
	100	19 AP 100	0.3	2.0	37	1,620	500/R
	150	19 AP 150	0.3	2.0	44.5	2,380	500/R
	200	19 AP 200	0.3	2.3	51	3,130	500/R
	300	19 AP 300	0.3	2.5	60.5	4,700	250/R
	400	19 AP 400	0.3	2.8	69.5	6,210	250/R

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