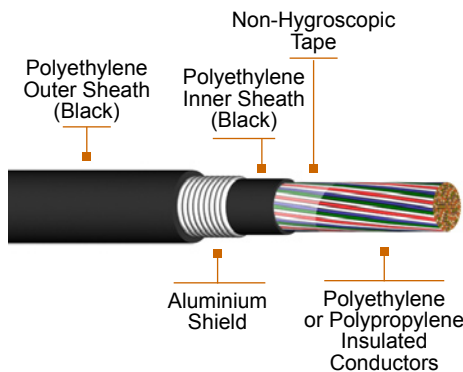


Telephone and Communication Cables PAP: Double Sheathed Alpeith Cable



**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 Aluminium tape, thickness 0.2 mm laid on with overlap. The aluminium tape is corrugated for every size of cable

**Sheath Inner**

Polyethylene (Black)

**Outer**

Polyethylene (Black)

**Application**

For exchange area telephone distribution lines. It is designed for direct burial in ground where there is no damage due to mechanical abuse.

**Standards / Testing Specifications**

- ICEA S-85-625.

**Marking**

PDTL YEAR OF MANUFACTURE  
PAP (SIZE X No. OF PAIR) P LENGTH OF CABLE.

**Installation**

PAP cable can be installed by direct burial in ground. 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 @ 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	μΩ / 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 average	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.



# PAP

## Telephone and Communication Cables PAP: Double Sheathed Alpth Cable

Conductor	Number of Pairs	Phelps Dodge Type Letter	Nominal Insulation Thickness	Nominal Seath Thickness		Approximate Overall Diameter	Approximate Cable Weight	Standard Length
				Inner	Outer			
mm			mm	mm		mm	kg / km	m
0.4	3	26 PAP 003	0.15	1.2	1.5	10.5	70	1,000/R
	5	26 PAP 005	0.15	1.2	1.5	11.0	85	1,000/R
	6	26 PAP 006	0.15	1.2	1.5	11.0	90	1,000/R
	10	26 PAP 010	0.15	1.2	1.5	12.0	110	1,000/R
	12	26 PAP 012	0.15	1.2	1.5	12.5	120	1,000/R
	15	26 PAP 015	0.15	1.2	1.5	13.0	140	1,000/R
	20	26 PAP 020	0.15	1.2	1.5	13.5	150	1,000/R
	25	26 PAP 025	0.15	1.2	1.5	14.5	175	1,000/R
	30	26 PAP 030	0.15	1.2	1.5	15.0	195	1,000/R
	40	26 PAP 040	0.15	1.2	1.5	16.0	235	1,000/R
	50	26 PAP 050	0.15	1.2	1.5	17.0	270	1,000/R
	75	26 PAP 075	0.15	1.2	1.5	19.0	360	1,000/R
	100	26 PAP 100	0.15	1.2	1.5	20.5	445	1,000/R
	150	26 PAP 150	0.15	1.2	1.5	23.0	610	500/R
	200	26 PAP 200	0.15	1.2	1.5	26.0	770	500/R
	300	26 PAP 300	0.15	1.2	1.5	30.0	1,135	500/R
	400	26 PAP 400	0.15	1.6	1.8	34.5	1,455	500/R
	600	26 PAP 600	0.15	1.6	2.0	40.5	2,100	500/R
	900	26 PAP 900	0.15	1.6	2.0	48.0	3,070	250/R

R = Packing in reel



Telephone and Communication Cables PAP: Double Sheathed Alpth Cable

Conductor	Number of Pairs	Phelps Dodge Type Letter	Nominal Insulation Thickness	Nominal Sheath Thickness		Approximate Overall Diameter	Approximate Cable Weight	Standard Length
				Inner	Outer			
mm			mm	mm		mm	kg / km	m
0.5	3	24 PAP 003	0.2	1.2	1.5	11.0	80	1,000/R
	5	24 PAP 005	0.2	1.2	1.5	11.5	100	1,000/R
	6	24 PAP 006	0.2	1.2	1.5	12.0	110	1,000/R
	10	24 PAP 010	0.2	1.2	1.5	13.0	140	1,000/R
	12	24 PAP 012	0.2	1.2	1.5	13.5	150	1,000/R
	15	24 PAP 015	0.2	1.2	1.5	14.5	170	1,000/R
	20	24 PAP 020	0.2	1.2	1.5	15.5	200	1,000/R
	25	24 PAP 025	0.2	1.2	1.5	16.0	230	1,000/R
	30	24 PAP 030	0.2	1.2	1.5	17.0	265	1,000/R
	40	24 PAP 040	0.2	1.2	1.5	18.5	320	1,000/R
	50	24 PAP 050	0.2	1.2	1.5	19.5	370	1,000/R
	75	24 PAP 075	0.2	1.2	1.5	22.0	505	1,000/R
	100	24 PAP 100	0.2	1.2	1.5	25.0	640	1,000/R
	150	24 PAP 150	0.2	1.2	1.5	28.5	890	500/R
	200	24 PAP 200	0.2	1.6	1.8	33.0	1,190	500/R
	300	24 PAP 300	0.2	1.6	1.8	38.0	1,700	500/R
	400	24 PAP 400	0.2	1.6	2.0	42.5	2,200	500/R
	600	24 PAP 600	0.2	1.8	2.3	51.5	3,235	250/R
	900	24 PAP 900	0.2	2.0	2.5	61.0	4,705	250/R

R = Packing in reel

Telephone and Communication Cables PAP: Double Sheathed Alpth Cable

Conductor	Number of Pairs	Phelps Dodge Type Letter	Nominal Insulation Thickness	Nominal Sheath Thickness		Approximate Overall Diameter	Approximate Cable Weight	Standard Length
				Inner	Outer			
mm			mm	mm		mm	kg / km	m
0.65	3	22 PAP 003	0.25	1.2	1.5	11.5	95	1,000/R
	5	22 PAP 005	0.25	1.2	1.5	13.0	120	1,000/R
	6	22 PAP 006	0.25	1.2	1.5	13.0	135	1,000/R
	10	22 PAP 010	0.25	1.2	1.5	14.5	175	1,000/R
	12	22 PAP 012	0.25	1.2	1.5	15.5	195	1,000/R
	15	22 PAP 015	0.25	1.2	1.5	16.0	230	1,000/R
	20	22 PAP 020	0.25	1.2	1.5	17.5	270	1,000/R
	25	22 PAP 025	0.25	1.2	1.5	18.5	315	1,000/R
	30	22 PAP 030	0.25	1.2	1.5	19.5	365	1,000/R
	40	22 PAP 040	0.25	1.2	1.5	21.0	450	1,000/R
	50	22 PAP 050	0.25	1.2	1.5	22.5	530	500/R
	75	22 PAP 075	0.25	1.2	1.5	26.5	730	500/R
	100	22 PAP 100	0.25	1.2	1.5	29.5	930	500/R
	150	22 PAP 150	0.25	1.6	1.8	35.5	1,370	500/R
	200	22 PAP 200	0.25	1.6	2.0	39.5	1,775	500/R
	300	22 PAP 300	0.25	1.6	2.0	47.0	2,555	250/R
	400	22 PAP 400	0.25	1.8	2.3	53.5	3,375	250/R
	600	22 PAP 600	0.25	2.0	2.5	63.5	4,930	250/R

R = Packing in reel

Telephone and Communication Cables PAP: Double Sheathed Alpth Cable

Conductor mm	Number of Pairs	Phelps Dodge Type Letter	Nominal Insulation Thickness mm	Nominal Sheath Thickness mm		Approximate Overall Diameter mm	Approximate Cable Weight kg / km	Standard Length m
				Inner	Outer			
0.9	3	19 PAP 003	0.3	1.2	1.5	13.5	135	1,000/R
	5	19 PAP 005	0.3	1.2	1.5	15.0	175	1,000/R
	6	19 PAP 006	0.3	1.2	1.5	15.5	195	1,000/R
	10	19 PAP 010	0.3	1.2	1.5	17.5	265	1,000/R
	12	19 PAP 012	0.3	1.2	1.5	18.5	300	1,000/R
	15	19 PAP 015	0.3	1.2	1.5	19.5	370	1,000/R
	20	19 PAP 020	0.3	1.2	1.5	21.5	450	1,000/R
	25	19 PAP 025	0.3	1.2	1.5	23.0	525	1,000/R
	30	19 PAP 030	0.3	1.2	1.5	25.0	635	1,000/R
	40	19 PAP 040	0.3	1.2	1.5	27.5	800	1,000/R
	50	19 PAP 050	0.3	1.2	1.5	30.0	920	500/R
	75	19 PAP 075	0.3	1.6	1.8	36.0	1,360	500/R
	100	19 PAP 100	0.3	1.6	2.0	40.5	1,765	500/R
	150	19 PAP 150	0.3	1.6	2.0	48.0	2,545	500/R
	200	19 PAP 200	0.3	1.8	2.3	54.5	3,440	350/R
	300	19 PAP 300	0.3	2.0	2.5	64.5	5,010	250/R
	400	19 PAP 400	0.3	2.0	2.8	73.5	6,560	250/R

R = Packing in reel