



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

Armor

Galvanized steel wires

Sheath Inner

Polyethylene (Black)

Outer

Polyethylene (Black)

Application

For exchange area telephone distribution lines, in areas of low security such as across bridges or directly burial in ground where mechanical conditions are not severe.

Standards / Testing Specifications

- ICEA S-85-625.

Marking

PDTL Year of manufacture AP-SWA
Size x No. of pair P Length of cable.

Installation

AP-SWA cable can be installed in areas of low security location. It is recommended that the installation instructions indicated by the Local Electric Code, or any equivalent, be followed, so that the safeguarding of persons and the integrity of the product will not be affected by deficiencies in the installation.

Telephone and Communication Cables AP-SWA: Single Wire Armored 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	Shall 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 tims the cable overall diameter.



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Conductor	Number of Pairs	Phelps Dodge Type Letter	Nominal Insulation Thickness	Nominal Inner Sheath Thickness	Nominal Diameter of Armor Wires	Nominal Outer Sheath Thickness	Approximate Overall Diameter	Approximate Cable Weight	Standard Length
mm			mm	mm	mm	mm	mm	kg / km	m
0.4	5	26 AP-SWA 005	0.15	1.5	0.8	1.5	15	260	500/R
	10	26 AP-SWA 010	0.15	1.5	0.8	1.5	16	305	500/R
	15	26 AP-SWA 015	0.15	1.5	0.8	1.5	17	380	500/R
	20	26 AP-SWA 020	0.15	1.5	0.8	1.5	18	410	500/R
	25	26 AP-SWA 025	0.15	1.5	0.8	1.5	19	440	500/R
	30	26 AP-SWA 030	0.15	1.5	0.8	1.5	19	470	500/R
	40	26 AP-SWA 040	0.15	1.5	0.8	1.5	20	520	500/R
	50	26 AP-SWA 050	0.15	1.5	0.8	1.5	21	570	500/R
100	26 AP-SWA 100	0.15	1.5	1.6	1.5	26	1,100	500/R	
0.5	5	24 AP-SWA 005	0.20	1.5	0.8	1.5	16	290	500/R
	10	24 AP-SWA 010	0.20	1.5	0.8	1.5	18	380	500/R
	15	24 AP-SWA 015	0.20	1.5	0.8	1.5	19	440	500/R
	20	24 AP-SWA 020	0.20	1.5	0.8	1.5	20	480	500/R
	25	24 AP-SWA 025	0.20	1.5	0.8	1.5	21	550	500/R
	30	24 AP-SWA 030	0.20	1.5	0.8	1.5	21	570	500/R
	40	24 AP-SWA 040	0.20	1.5	1.6	1.5	24	930	500/R
	50	24 AP-SWA 050	0.20	1.5	1.6	1.5	25	1,030	500/R
100	24 AP-SWA 100	0.20	1.5	1.6	1.5	30	1,500	500/R	

R = Packing in reel



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mm			mm	mm	mm	mm	mm	kg / km	m
0.65	5	22 AP-SWA 005	0.25	1.5	0.8	1.5	17	380	500/R
	10	22 AP-SWA 010	0.25	1.5	0.8	1.5	19	450	500/R
	15	22 AP-SWA 015	0.25	1.5	0.8	1.5	21	540	500/R
	20	22 AP-SWA 020	0.25	1.5	0.8	1.5	22	580	500/R
	25	22 AP-SWA 025	0.25	1.5	1.6	1.5	24	940	500/R
	30	22 AP-SWA 030	0.25	1.5	1.6	1.5	25	1,000	500/R
	40	22 AP-SWA 040	0.25	1.5	1.6	1.5	27	1,160	500/R
	50	22 AP-SWA 050	0.25	1.5	1.6	1.5	28	1,300	500/R
100	22 AP-SWA 100	0.25	1.5	2.0	1.5	36	2,210	500/R	
0.9	5	19 AP-SWA 005	0.30	1.5	0.8	1.5	19	440	500/R
	10	19 AP-SWA 010	0.30	1.5	0.8	1.5	22	600	500/R
	15	19 AP-SWA 015	0.30	1.5	1.6	1.5	25	1,020	500/R
	20	19 AP-SWA 020	0.30	1.5	1.6	1.5	27	1,160	500/R
	25	19 AP-SWA 025	0.30	1.5	1.6	1.5	28	1,330	500/R
	30	19 AP-SWA 030	0.30	1.5	1.6	1.5	30	1,520	500/R
	40	19 AP-SWA 040	0.30	1.5	2.0	1.5	34	2,010	500/R
	50	19 AP-SWA 050	0.30	1.5	2.0	1.5	36	2,250	500/R
100	19 AP-SWA 100	0.30	2.0	2.5	2.0	48	3,960	500/R	

R = Packing in reel