

Outdoor Telephone Cables

PD-AP-A

A-2Y(L)T2Y



Application

- Usually used in the country, rural areas for aerial purposes between poles.
- Cables having 0.4 and 0.5 mm conductor diameter are used for distribution network.
- Cables having 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

Cable Construction

- 1 - Conductor : Electrolytic annealed solid copper (CCITT Yellow Book Vol. III-2-G.541 B article, IEC 28 and ASTM B 3).
- 2 - Insulation : Color coded solid polyethylene (BS 6234 Type 03 - ASTM D 1248).
- 3 - Stranding : Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core.
- 4 - Wrapping : A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically.
- 5 - Screen : Both sides are coated with copolymer coated flat aluminum tape over cable core longitudinally for screening.
- 6 - Messenger : Galvanized steel messenger wire (ASTM A 475-66T).
Wire
- 7 - Outer Jacket: Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248).

Notes

Reference Standard: TS EN 60708

Technical Characteristics

	Conductor Diameter						
	0.40 mm	0.50 mm	0.60 mm	0.63 mm	0.65 mm	0.80 mm	0.90 mm
Conductor Resistance Ω/km (20 °C)							
Maximum Average	139,4	89,4	62,1	58	57	35	27,6
Maximum Individual	146,6	93	64,6	60	58	37	28,8
Insulation Resistance $M\Omega$/km (500 V DC)	>10000	>10000	>15000	>15000	>15000	>15000	>15000
Mutual Capacitance nF/km (800 Hz)							
Maximum Average	50	50	45	45	45	45	45
Maximum Individual	56	56	51	51	51	51	51
Capacitance Unbalance pF/500 m							
Between Pairs							
Maximum Average	125	125	60	60	60	60	60
Maximum Individual	350	350	325	325	325	325	325
Between Adjacent Quads							
Maximum Average	125	125	60	60	60	60	60
Maximum Individual	275	275	270	270	270	270	270
To Screen							
Maximum Average	500	500	325	325	325	325	325
Maximum Individual	2000	2000	1300	1300	1300	1300	1300
Dielectric Strength							
V (DC, 1 minute)							
Pair - Pair	1400	1400	2000	2000	2000	2400	3000
Pair - Screen	1400	1400	2000	2000	2000	2400	3000

PD-AP-A (Quad)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.1.1.0040.0.0002	2	0.4	5.9	4.8	89	1000/2000
3.130.4.1.1.0040.0.0004	4	0.4	6.3	9.5	97	1000/2000
3.130.4.1.1.0040.0.0006	6	0.4	7.3	14.3	108	1000/2000
3.130.4.1.1.0040.0.0010	10	0.4	7.6	23.7	121	1000/2000
3.130.4.1.1.0040.0.0020	20	0.4	9.6	47.4	175	1000/2000
3.130.4.1.1.0040.0.0030	30	0.4	11.8	71.1	241	1200
3.130.4.1.1.0040.0.0040	40	0.4	12.6	94.8	276	1200
3.130.4.1.1.0040.0.0050	50	0.4	13.5	118.5	310	1200
3.130.4.1.1.0040.0.0070	70	0.4	14.9	165.9	403	1200
3.130.4.1.1.0040.0.0100	100	0.4	17.4	241.6	512	1200
3.130.4.1.1.0040.0.0150	150	0.4	20.8	362.4	741	1000
3.130.4.1.1.0040.0.0200	200	0.4	23	483.2	980	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.1.1.0050.0.0002	2	0.5	6.2	7.5	93	1000/2000
3.130.4.1.1.0050.0.0004	4	0.5	6.7	14.9	106	1000/2000
3.130.4.1.1.0050.0.0006	6	0.5	7.9	22.3	121	1000/2000
3.130.4.1.1.0050.0.0010	10	0.5	8.1	37.1	151	1000/2000
3.130.4.1.1.0050.0.0020	20	0.5	10.4	74.1	233	1200
3.130.4.1.1.0050.0.0030	30	0.5	13.1	111.1	294	1200
3.130.4.1.1.0050.0.0040	40	0.5	14.1	148.1	370	1200
3.130.4.1.1.0050.0.0050	50	0.5	15.2	185.2	420	1200
3.130.4.1.1.0050.0.0070	70	0.5	16.8	259.2	518	1200
3.130.4.1.1.0050.0.0100	100	0.5	20	377.5	714	1200
3.130.4.1.1.0050.0.0150	150	0.5	24	566.2	1067	1000
3.130.4.1.1.0050.0.0200	200	0.5	26.6	755	1313	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.1.1.0060.0.0002	2	0.6	6.8	10.7	102	1000/2000
3.130.4.1.1.0060.0.0004	4	0.6	7.5	21.4	119	1000/2000
3.130.4.1.1.0060.0.0006	6	0.6	9	32	15	1000/2000
3.130.4.1.1.0060.0.0010	10	0.6	9.5	53.4	182	1000/2000
3.130.4.1.1.0060.0.0020	20	0.6	12.1	106.7	288	1200
3.130.4.1.1.0060.0.0030	30	0.6	15.6	160	402	1200
3.130.4.1.1.0060.0.0040	40	0.6	16.9	213.3	504	1200
3.130.4.1.1.0060.0.0050	50	0.6	18.3	266.6	576	1200
3.130.4.1.1.0060.0.0070	70	0.6	20.4	373.2	722.1	1000
3.130.4.1.1.0060.0.0100	100	0.6	24.6	543.6	1038	1000
3.130.4.1.1.0060.0.0150	150	0.6	30.1	815.4	1459	500
3.130.4.1.1.0060.0.0200	200	0.6	33.4	1087.1	1905	500
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.1.1.0080.0.0002	2	0.8	7.8	19	128	1000/2000
3.130.4.1.1.0080.0.0004	4	0.8	8.6	38	158	1000/2000
3.130.4.1.1.0080.0.0006	6	0.8	10.7	56.9	194	1200
3.130.4.1.1.0080.0.0010	10	0.8	11.3	94.8	247	1200
3.130.4.1.1.0080.0.0020	20	0.8	14.9	189.6	413	1200

PD-AP-A (Quad)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.1.1.0080.0.0030	30	0.8	19.5	284.4	583	1200
3.130.4.1.1.0080.0.0040	40	0.8	21.4	379.2	743	1000
3.130.4.1.1.0080.0.0050	50	0.8	23.3	473.9	872	1000
3.130.4.1.1.0080.0.0070	70	0.8	26.1	663.5	1126	1000
3.130.4.1.1.0080.0.0100	100	0.8	31.8	966.3	1625	500
3.130.4.1.1.0080.0.0150	150	0.8	39.3	1449.5	2406	500
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.1.1.0090.0.0002	2	0.9	8.1	24	137	1000/2000
3.130.4.1.1.0090.0.0004	4	0.9	9.1	48	172	1000/2000
3.130.4.1.1.0090.0.0006	6	0.9	11.4	72	215	1200
3.130.4.1.1.0090.0.0010	10	0.9	12	120	301	1200
3.130.4.1.1.0090.0.0020	20	0.9	15.9	240	501	1200
3.130.4.1.1.0090.0.0030	30	0.9	21.2	359.9	715	1000
3.130.4.1.1.0090.0.0040	40	0.9	23.2	479.9	945	1000
3.130.4.1.1.0090.0.0050	50	0.9	25.7	599.8	1114	1000
3.130.4.1.1.0090.0.0070	70	0.9	28.7	839.7	1430	1000
3.130.4.1.1.0090.0.0100	100	0.9	35.1	1223	2046	500
3.130.4.1.1.0090.0.0150	150	0.9	43	1834.5	2895	400

PD-AP-A (Pair)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.1.1.0040.1.0002	2	0.4	6	4.8	90	1000/2000
3.130.1.1.1.0040.1.0004	4	0.4	7	9.5	102	1000/2000
3.130.1.1.1.0040.1.0006	6	0.4	7.9	14.3	113	1000/2000
3.130.1.1.1.0040.1.0010	10	0.4	8.6	23.7	143	1000/2000
3.130.1.1.1.0040.1.0020	20	0.4	10.5	47.4	188	1200
3.130.1.1.1.0040.1.0030	30	0.4	12.9	71.1	235	1200
3.130.1.1.1.0040.1.0040	40	0.4	13.9	94.8	295	1200
3.130.1.1.1.0040.1.0050	50	0.4	15.1	118.5	335	1200
3.130.1.1.1.0040.1.0070	70	0.4	16.6	165.9	431	1200
3.130.1.1.1.0040.1.0100	100	0.4	19.5	241.6	550	1200
3.130.1.1.1.0040.1.0150	150	0.4	24	362.4	774	1000
3.130.1.1.1.0040.1.0200	200	0.4	26.5	483.2	1023	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.1.1.0050.1.0002	2	0.5	6.5	7.5	95	1000/2000
3.130.1.1.1.0050.1.0004	4	0.5	7.6	14.9	111	1000/2000
3.130.1.1.1.0050.1.0006	6	0.5	8.7	22.3	129	1000/2000
3.130.1.1.1.0050.1.0010	10	0.5	9.5	37.1	167	1000/2000
3.130.1.1.1.0050.1.0020	20	0.5	11.8	74.1	251	1200
3.130.1.1.1.0050.1.0030	30	0.5	14.8	111.1	318	1200
3.130.1.1.1.0050.1.0040	40	0.5	16	148.1	399	1200

PD-AP-A (Pair)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.1.1.0050.1.0050	50	0.5	17.4	185.2	457	1200
3.130.1.1.1.0050.1.0070	70	0.5	19.3	259.2	565	1200
3.130.1.1.1.0050.1.0100	100	0.5	22.8	377.5	770	1000
3.130.1.1.1.0050.1.0150	150	0.5	28.2	566.2	1126	1000
3.130.1.1.1.0050.1.0200	200	0.5	31.3	755	1397	500
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.1.1.0060.1.0002	2	0.6	7.4	10.7	107	1000/2000
3.130.1.1.1.0060.1.0004	4	0.6	8.9	21.4	133	1000/2000
3.130.1.1.1.0060.1.0006	6	0.6	10.6	32	168	1200
3.130.1.1.1.0060.1.0010	10	0.6	11.4	53.4	208	1200
3.130.1.1.1.0060.1.0020	20	0.6	14.7	106.7	328	1200
3.130.1.1.1.0060.1.0030	30	0.6	18.8	160	459	1200
3.130.1.1.1.0060.1.0040	40	0.6	20.6	213.3	575	1000
3.130.1.1.1.0060.1.0050	50	0.6	22.5	266.6	665	1000
3.130.1.1.1.0060.1.0070	70	0.6	25.1	373.2	838	1000
3.130.1.1.1.0060.1.0100	100	0.6	30.5	543.6	1203	500
3.130.1.1.1.0060.1.0150	150	0.6	38.2	815.4	1669	500
3.130.1.1.1.0060.1.0200	200	0.6	42.2	1087.1	2168	400
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.1.1.0063.1.0002	2	0.63	7.6	11.8	111	1000/2000
3.130.1.1.1.0063.1.0004	4	0.63	9.3	23.6	138	1000/2000
3.130.1.1.1.0063.1.0006	6	0.63	11	35.3	177	1200
3.130.1.1.1.0063.1.0010	10	0.63	11.9	58.8	221	1200
3.130.1.1.1.0063.1.0020	20	0.63	15.4	117.6	353	1200
3.130.1.1.1.0063.1.0030	30	0.63	19.9	176.4	495	1200
3.130.1.1.1.0063.1.0040	40	0.63	21.7	235.2	620	1000
3.130.1.1.1.0063.1.0050	50	0.63	23.8	293.9	720	1000
3.130.1.1.1.0063.1.0070	70	0.63	26.6	411.5	913	1000
3.130.1.1.1.0063.1.0100	100	0.63	32.4	599.3	1310	500
3.130.1.1.1.0063.1.0150	150	0.63	40.5	898.9	1831	400
3.130.1.1.1.0063.1.0200	200	0.63	45	1198.5	2389	400

PD-AP-A (Pair)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.1.1.0065.1.0002	2	0.65	7.8	12.6	113	1000/2000
3.130.1.1.1.0065.1.0004	4	0.65	9.6	25.1	143	1000/2000
3.130.1.1.1.0065.1.0006	6	0.65	11.5	37.6	185	1200
3.130.1.1.1.0065.1.0010	10	0.65	12.4	62.6	232	1200
3.130.1.1.1.0065.1.0020	20	0.65	16.2	125.2	373	1200
3.130.1.1.1.0065.1.0030	30	0.65	20.9	187.8	524	1000
3.130.1.1.1.0065.1.0040	40	0.65	22.9	250.3	659	1000
3.130.1.1.1.0065.1.0050	50	0.65	25.1	312.9	770	1000
3.130.1.1.1.0065.1.0070	70	0.65	28.1	438	981	1000
3.130.1.1.1.0065.1.0100	100	0.65	34.2	637.9	1407	500
3.130.1.1.1.0065.1.0150	150	0.65	42.9	956.9	1973	400
3.130.1.1.1.0065.1.0200	200	0.65	47.6	1275.8	2578	400
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.1.1.0080.1.0002	2	0.8	8.3	19	135	1000/2000
3.130.1.1.1.0080.1.0004	4	0.8	10.3	38	174	1200
3.130.1.1.1.0080.1.0006	6	0.8	12.4	56.9	214	1200
3.130.1.1.1.0080.1.0010	10	0.8	13.4	94.8	277	1200
3.130.1.1.1.0080.1.0020	20	0.8	17.6	189.6	460	1200
3.130.1.1.1.0080.1.0030	30	0.8	22.9	284.4	652	1000
3.130.1.1.1.0080.1.0040	40	0.8	25.1	379.2	830	1000
3.130.1.1.1.0080.1.0050	50	0.8	27.6	473.9	979	1000
3.130.1.1.1.0080.1.0070	70	0.8	31	663.5	1268	500
3.130.1.1.1.0080.1.0100	100	0.8	37.8	966.3	1825	500
3.130.1.1.1.0080.1.0150	150	0.8	47.6	1449.5	2600	400
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.1.1.0090.1.0002	2	0.9	8.5	24	142	1000/2000
3.130.1.1.1.0090.1.0004	4	0.9	10.6	48	186	1200
3.130.1.1.1.0090.1.0006	6	0.9	12.9	72	232	1200
3.130.1.1.1.0090.1.0010	10	0.9	13.9	120	329	1200
3.130.1.1.1.0090.1.0020	20	0.9	18.3	240	543	1200
3.130.1.1.1.0090.1.0030	30	0.9	23.9	359.9	771	1000
3.130.1.1.1.0090.1.0040	40	0.9	27	479.9	1020	1000
3.130.1.1.1.0090.1.0050	50	0.9	30.1	599.8	1214	500
3.130.1.1.1.0090.1.0070	70	0.9	33.6	839.7	1552	500
3.130.1.1.1.0090.1.0100	100	0.9	41.4	1223	2237	400