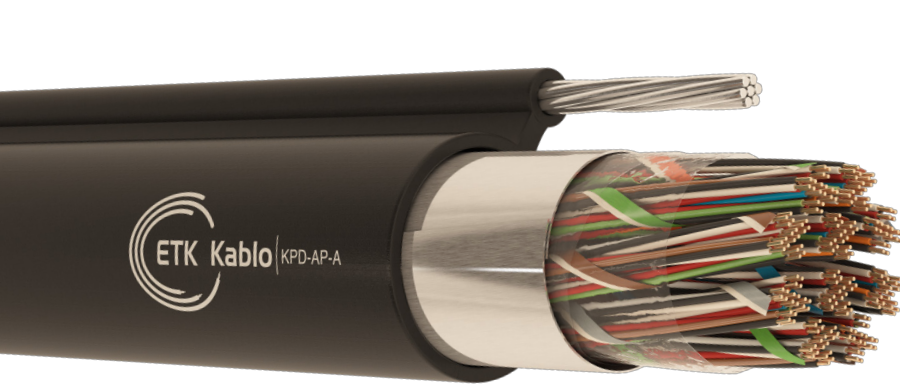


## Outdoor Telephone Cables

# KPD-AP-A

A-02YS(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 foam skin polyethylene clad with 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 Wire : Galvanized steel messenger wire (ASTM A 475-66T).
- 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
<b>Conductor Resistance <math>\Omega</math>/km (20 °C)</b>							
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
<b>Insulation Resistance <math>M\Omega</math>/km (500 V DC)</b>							
	>10000	>10000	>15000	>15000	>15000	>15000	>15000
<b>Mutual Capacitance nF/km (800 Hz)</b>							
Maximum Average	50	50	45	45	45	45	45
Maximum Individual	56	56	51	51	51	51	51
<b>Capacitance Unbalance pF/500 m</b>							
<b>Between Pairs</b>							
Maximum Average	125	125	60	60	60	60	60
Maximum Individual	350	350	325	325	325	325	325
<b>Between Adjacent Quads</b>							
Maximum Average	125	125	60	60	60	60	60
Maximum Individual	275	275	270	270	270	270	270
<b>To Screen</b>							
Maximum Average	500	500	325	325	325	325	325
Maximum Individual	2000	2000	1300	1300	1300	1300	1300
<b>Dielectric Strength</b>							
<b>V (DC, 1 minute)</b>							
Pair - Pair	1400	1400	2000	2000	2000	2400	3000
Pair - Screen	1400	1400	2000	2000	2000	2400	3000

## KPD-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)
3.130.4.5.1.0040.0.0002	2	0.4	5.8	4.8	88	1000/2000
3.130.4.5.1.0040.0.0004	4	0.4	6.2	9.5	95	1000/2000
3.130.4.5.1.0040.0.0006	6	0.4	7.1	14.3	106	1000/2000
3.130.4.5.1.0040.0.0010	10	0.4	7.3	23.7	118	1000/2000
3.130.4.5.1.0040.0.0020	20	0.4	9.2	47.4	172	1000/2000
3.130.4.5.1.0040.0.0030	30	0.4	11.4	71.1	213	1200
3.130.4.5.1.0040.0.0040	40	0.4	12.2	94.8	244	1200
3.130.4.5.1.0040.0.0050	50	0.4	13	118.5	296	1200
3.130.4.5.1.0040.0.0070	70	0.4	14.3	165.9	360	1200
3.130.4.5.1.0040.0.0080	80	0.4	15.1	189.6	394	1200
3.130.4.5.1.0040.0.0100	100	0.4	16.7	241.6	488	1200
3.130.4.5.1.0040.0.0150	150	0.4	19.9	362.4	682	1200
3.130.4.5.1.0040.0.0200	200	0.4	22	483.2	904	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.5.1.0050.0.0002	2	0.5	6.1	7.5	92	1000/2000
3.130.4.5.1.0050.0.0004	4	0.5	6.6	14.9	104	1000/2000
3.130.4.5.1.0050.0.0006	6	0.5	7.7	22.3	118	1000/2000
3.130.4.5.1.0050.0.0010	10	0.5	7.9	37.1	146	1000/2000
3.130.4.5.1.0050.0.0020	20	0.5	10.1	74.1	205	1200
3.130.4.5.1.0050.0.0030	30	0.5	12.6	111.1	262	1200
3.130.4.5.1.0050.0.0040	40	0.5	13.5	148.1	309	1200
3.130.4.5.1.0050.0.0050	50	0.5	14.5	185.2	376	1200
3.130.4.5.1.0050.0.0070	70	0.5	16	259.2	493	1200
3.130.4.5.1.0050.0.0080	80	0.5	17	296.2	541	1200
3.130.4.5.1.0050.0.0100	100	0.5	19.1	377.5	650	1200
3.130.4.5.1.0050.0.0150	150	0.5	22.8	566.2	919	1000
3.130.4.5.1.0050.0.0200	200	0.5	25.1	755	1213	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.5.1.0060.0.0002	2	0.6	6.8	10.7	101	1000/2000
3.130.4.5.1.0060.0.0004	4	0.6	7.5	21.4	118	1000/2000
3.130.4.5.1.0060.0.0006	6	0.6	9	32	139	1000/2000
3.130.4.5.1.0060.0.0010	10	0.6	9.5	53.4	179	1000/2000
3.130.4.5.1.0060.0.0020	20	0.6	12.1	106.7	281	1200
3.130.4.5.1.0060.0.0030	30	0.6	15.6	160	391	1200
3.130.4.5.1.0060.0.0040	40	0.6	16.9	213.3	462	1200
3.130.4.5.1.0060.0.0050	50	0.6	18.3	266.6	559	1200
3.130.4.5.1.0060.0.0070	70	0.6	20.4	373.2	697	1000
3.130.4.5.1.0060.0.0080	80	0.6	21.7	426.6	768	1000
3.130.4.5.1.0060.0.0100	100	0.6	24.4	543.6	996	1000
3.130.4.5.1.0060.0.0150	150	0.6	30.1	815.4	1373	500
3.130.4.5.1.0060.0.0200	200	0.6	33.2	1087.1	1784	500

## KPD-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)
3.130.4.5.1.0080.0.0002	2	0.8	7.7	19	126	1000/2000
3.130.4.5.1.0080.0.0004	4	0.8	8.5	38	153	1000/2000
3.130.4.5.1.0080.0.0006	6	0.8	10.5	56.9	186	1200
3.130.4.5.1.0080.0.0010	10	0.8	11.1	94.8	236	1200
3.130.4.5.1.0080.0.0020	20	0.8	14.5	189.6	390	1200
3.130.4.5.1.0080.0.0030	30	0.8	19	284.4	553	1200
3.130.4.5.1.0080.0.0040	40	0.8	20.8	379.2	674	1000
3.130.4.5.1.0080.0.0050	50	0.8	22.7	473.9	819	1000
3.130.4.5.1.0080.0.0070	70	0.8	25.4	663.5	1058	1000
3.130.4.5.1.0080.0.0080	80	0.8	27.1	758.3	1177	1000
3.130.4.5.1.0080.0.0100	100	0.8	30.7	966.3	1517	500
3.130.4.5.1.0080.0.0150	150	0.8	37.8	1449.5	2129	500
3.130.4.5.1.0080.0.0200	200	0.8	42	1932.6	2794	400
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.4.5.1.0090.0.0002	2	0.9	7.9	24	132	1000/2000
3.130.4.5.1.0090.0.0004	4	0.9	8.8	48	166	1000/2000
3.130.4.5.1.0090.0.0006	6	0.9	10.9	72	206	1200
3.130.4.5.1.0090.0.0010	10	0.9	11.6	120	265	1200
3.130.4.5.1.0090.0.0020	20	0.9	15.2	240	472	1200
3.130.4.5.1.0090.0.0030	30	0.9	20	359.9	667	1200
3.130.4.5.1.0090.0.0040	40	0.9	21.9	479.9	813	1000
3.130.4.5.1.0090.0.0050	50	0.9	24	599.8	1027	1000
3.130.4.5.1.0090.0.0070	70	0.9	26.9	839.7	1315	1000
3.130.4.5.1.0090.0.0080	80	0.9	28.7	959.7	1461	1000
3.130.4.5.1.0090.0.0100	100	0.9	32.5	1223	1861	500
3.130.4.5.1.0090.0.0150	150	0.9	40.4	1834.5	2603	400
3.130.4.5.1.0090.0.0200	200	0.9	44.7	2446	3315	400

## KPD-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)
3.130.1.5.1.0040.1.0002	2	0.4	5.8	4.8	88	1000/2000
3.130.1.5.1.0040.1.0004	4	0.4	6.6	9.5	99	1000/2000
3.130.1.5.1.0040.1.0005	5	0.4	6.7	11.9	102	1000/2000
3.130.1.5.1.0040.1.0006	6	0.4	7.5	14.3	108	1000/2000
3.130.1.5.1.0040.1.0010	10	0.4	8.1	23.7	137	1000/2000
3.130.1.5.1.0040.1.0020	20	0.4	9.8	47.4	177	1000/2000
3.130.1.5.1.0040.1.0025	25	0.4	10.9	59.3	194	1200
3.130.1.5.1.0040.1.0030	30	0.4	11.9	71.1	217	1200
3.130.1.5.1.0040.1.0040	40	0.4	12.8	94.8	272	1200
3.130.1.5.1.0040.1.0050	50	0.4	13.8	118.5	307	1200
3.130.1.5.1.0040.1.0070	70	0.4	15.2	165.9	397	1200
3.130.1.5.1.0040.1.0080	80	0.4	16	189.6	428	1200
3.130.1.5.1.0040.1.0100	100	0.4	17.7	241.6	500	1200
3.130.1.5.1.0040.1.0150	150	0.4	21.7	362.4	702	1000
3.130.1.5.1.0040.1.0200	200	0.4	23.9	483.2	929	1000

## KPD-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)
3.130.1.5.1.0050.1.0002	2	0.5	6.1	7.5	93	1000/2000
3.130.1.5.1.0050.1.0004	4	0.5	7.1	14.9	107	1000/2000
3.130.1.5.1.0050.1.0005	5	0.5	7.2	18.6	111	1000/2000
3.130.1.5.1.0050.1.0006	6	0.5	8.1	22.3	120	1000/2000
3.130.1.5.1.0050.1.0010	10	0.5	8.7	37.1	155	1000/2000
3.130.1.5.1.0050.1.0020	20	0.5	10.7	74.1	232	1200
3.130.1.5.1.0050.1.0025	25	0.5	12	92.6	259	1200
3.130.1.5.1.0050.1.0030	30	0.5	13.2	111.1	289	1200
3.130.1.5.1.0050.1.0040	40	0.5	14.3	148.1	363	1200
3.130.1.5.1.0050.1.0050	50	0.5	15.4	185.2	414	1200
3.130.1.5.1.0050.1.0070	70	0.5	17.1	259.2	508	1200
3.130.1.5.1.0050.1.0080	80	0.5	18.1	296.2	557	1200
3.130.1.5.1.0050.1.0100	100	0.5	20.1	377.5	691	1000
3.130.1.5.1.0050.1.0150	150	0.5	24.7	566.2	1004	1000
3.130.1.5.1.0050.1.0200	200	0.5	27.3	755	1244	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.5.1.0060.1.0002	2	0.6	6.8	10.7	101	1000/2000
3.130.1.5.1.0060.1.0004	4	0.6	8.1	21.4	121	1000/2000
3.130.1.5.1.0060.1.0005	5	0.6	8.3	26.7	142	1000/2000
3.130.1.5.1.0060.1.0006	6	0.6	9.4	32	153	1000/2000
3.130.1.5.1.0060.1.0010	10	0.6	10.2	53.4	185	1200
3.130.1.5.1.0060.1.0020	20	0.6	12.9	106.7	288	1200
3.130.1.5.1.0060.1.0025	25	0.6	14.6	133.3	328	1200
3.130.1.5.1.0060.1.0030	30	0.6	16.3	160	397	1200
3.130.1.5.1.0060.1.0040	40	0.6	17.7	213.3	498	1200
3.130.1.5.1.0060.1.0050	50	0.6	19.3	266.6	571	1200
3.130.1.5.1.0060.1.0070	70	0.6	21.5	373.2	714	1000
3.130.1.5.1.0060.1.0080	80	0.6	22.8	426.6	783	1000
3.130.1.5.1.0060.1.0100	100	0.6	26	543.6	1022	1000
3.130.1.5.1.0060.1.0150	150	0.6	32.1	815.4	1395	500
3.130.1.5.1.0060.1.0200	200	0.6	35.6	1087.1	1823	500
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.5.1.0063.1.0002	2	0.63	6.9	11.8	103	1000/2000
3.130.1.5.1.0063.1.0004	4	0.63	8.3	23.6	125	1000/2000
3.130.1.5.1.0063.1.0005	5	0.63	8.4	29.4	143	1000/2000
3.130.1.5.1.0063.1.0006	6	0.63	9.7	35.3	157	1000/2000
3.130.1.5.1.0063.1.0010	10	0.63	10.4	58.8	194	1200
3.130.1.5.1.0063.1.0020	20	0.63	13.3	117.6	303	1200
3.130.1.5.1.0063.1.0025	25	0.63	15.1	147	348	1200
3.130.1.5.1.0063.1.0030	30	0.63	16.8	176.4	420	1200
3.130.1.5.1.0063.1.0040	40	0.63	18.3	235.2	527	1200
3.130.1.5.1.0063.1.0050	50	0.63	19.9	293.9	609	1200
3.130.1.5.1.0063.1.0070	70	0.63	22.4	411.5	768	1000
3.130.1.5.1.0063.1.0080	80	0.63	23.8	470.3	847	1000
3.130.1.5.1.0063.1.0100	100	0.63	26.9	599.3	1094	1000
3.130.1.5.1.0063.1.0150	150	0.63	33.5	898.9	1508	500
3.130.1.5.1.0063.1.0200	200	0.63	37.1	1198.5	1973	500

## KPD-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)
3.130.1.5.1.0065.1.0002	2	0.65	7	12.6	105	1000/2000
3.130.1.5.1.0065.1.0004	4	0.65	8.4	25.1	128	1000/2000
3.130.1.5.1.0065.1.0005	5	0.65	8.6	31.3	147	1000/2000
3.130.1.5.1.0065.1.0006	6	0.65	9.9	37.6	161	1000/2000
3.130.1.5.1.0065.1.0010	10	0.65	10.7	62.6	200	1200
3.130.1.5.1.0065.1.0020	20	0.65	13.6	125.2	316	1200
3.130.1.5.1.0065.1.0025	25	0.65	15.5	156.5	362	1200
3.130.1.5.1.0065.1.0030	30	0.65	17.3	187.8	438	1200
3.130.1.5.1.0065.1.0040	40	0.65	18.9	250.3	550	1200
3.130.1.5.1.0065.1.0050	50	0.65	20.6	312.9	635	1000
3.130.1.5.1.0065.1.0070	70	0.65	23.1	438	804	1000
3.130.1.5.1.0065.1.0080	80	0.65	24.6	500.6	889	1000
3.130.1.5.1.0065.1.0100	100	0.65	27.8	637.9	1147	1000
3.130.1.5.1.0065.1.0150	150	0.65	34.7	956.9	1590	500
3.130.1.5.1.0065.1.0200	200	0.65	38.4	1275.8	2077	500
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.5.1.0080.1.0002	2	0.8	7.6	19	126	1000/2000
3.130.1.5.1.0080.1.0004	4	0.8	9.3	38	158	1000/2000
3.130.1.5.1.0080.1.0005	5	0.8	9.5	47.4	170	1000/2000
3.130.1.5.1.0080.1.0006	6	0.8	11	56.9	191	1200
3.130.1.5.1.0080.1.0010	10	0.8	11.9	94.8	245	1200
3.130.1.5.1.0080.1.0020	20	0.8	15.4	189.6	400	1200
3.130.1.5.1.0080.1.0025	25	0.8	17.7	237	465	1200
3.130.1.5.1.0080.1.0030	30	0.8	19.9	284.4	565	1200
3.130.1.5.1.0080.1.0040	40	0.8	21.7	379.2	715	1000
3.130.1.5.1.0080.1.0050	50	0.8	23.8	473.9	837	1000
3.130.1.5.1.0080.1.0070	70	0.8	26.6	663.5	1077	1000
3.130.1.5.1.0080.1.0080	80	0.8	28.4	758.3	1199	1000
3.130.1.5.1.0080.1.0100	100	0.8	32.4	966.3	1549	500
3.130.1.5.1.0080.1.0150	150	0.8	40.5	1449.5	2189	400
3.130.1.5.1.0080.1.0200	200	0.8	45	1932.6	2869	400
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.130.1.5.1.0090.1.0002	2	0.9	7.9	24	133	1000/2000
3.130.1.5.1.0090.1.0004	4	0.9	9.8	48	171	1000/2000
3.130.1.5.1.0090.1.0005	5	0.9	10	60	188	1000/2000
3.130.1.5.1.0090.1.0006	6	0.9	11.7	72	211	1200
3.130.1.5.1.0090.1.0010	10	0.9	12.7	120	298	1200
3.130.1.5.1.0090.1.0020	20	0.9	16.5	240	486	1200
3.130.1.5.1.0090.1.0025	25	0.9	19	299.9	568	1200
3.130.1.5.1.0090.1.0030	30	0.9	21.4	359.9	683	1000
3.130.1.5.1.0090.1.0040	40	0.9	23.4	479.9	903	1000
3.130.1.5.1.0090.1.0050	50	0.9	26.1	599.8	1070	1000
3.130.1.5.1.0090.1.0070	70	0.9	29	839.7	1359	1000
3.130.1.5.1.0090.1.0080	80	0.9	31	959.7	1510	500
3.130.1.5.1.0090.1.0100	100	0.9	35.7	1223	1954	500
3.130.1.5.1.0090.1.0150	150	0.9	44.1	1834.5	2638	400
3.130.1.5.1.0090.1.0200	200	0.9	48.7	2446	3376	400