Outdoor Telephone Cables

KPDF-AP-A

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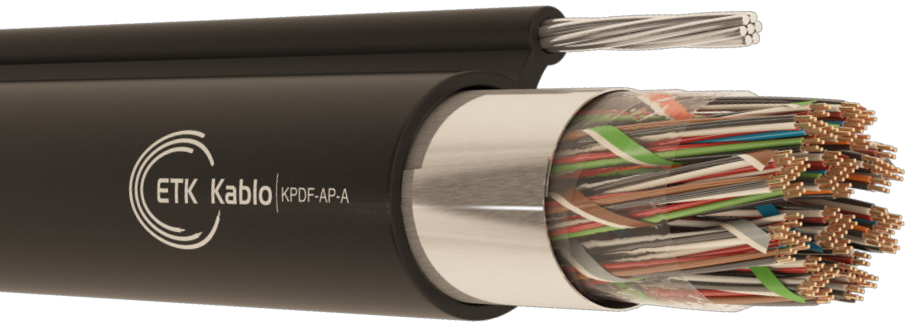

Application

· 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 cladded 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 - Filling Compound	:	Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces.
5 - Wrapping	:	A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically.
6 - Filling Compound	:	Secondary jelly filling is applied between wrapping and screen in order to provide waterproofness.
7 - Screen	:	Both sides are coated with copolymer coated flat aluminum tape over cable core longitudinally for screening.
8 - Messenger Wire	:	Galvanized steel messenger wire (ASTM A 475-66T).
9 - 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 MΩ/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

KPDF-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)
3.140.4.5.1.0040.0.0002	2	0.4	6.4	4.8	95	1000/2000
3.140.4.5.1.0040.0.0004	4	0.4	6.8	9.5	104	1000/2000
3.140.4.5.1.0040.0.0006	6	0.4	7.8	14.3	119	1000/2000
3.140.4.5.1.0040.0.0010	10	0.4	8.4	23.7	134	1000/2000
3.140.4.5.1.0040.0.0020	20	0.4	10	47.4	186	1000/2000
3.140.4.5.1.0040.0.0030	30	0.4	12.3	71.1	245	1200
3.140.4.5.1.0040.0.0040	40	0.4	13.1	94.8	302	1200
3.140.4.5.1.0040.0.0050	50	0.4	14.1	118.5	343	1200
3.140.4.5.1.0040.0.0070	70	0.4	15.6	165.9	418	1200
3.140.4.5.1.0040.0.0080	80	0.4	16.5	189.6	458	1200
3.140.4.5.1.0040.0.0100	100	0.4	18.1	241.6	568	1200
3.140.4.5.1.0040.0.0150	150	0.4	22	362.4	815	1000
3.140.4.5.1.0040.0.0200	200	0.4	24	483.2	1052	1000

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.4.5.1.0050.0.0002	2	0.5	6.8	7.5	103	1000/2000
3.140.4.5.1.0050.0.0004	4	0.5	7.3	14.9	113	1000/2000
3.140.4.5.1.0050.0.0006	6	0.5	8.5	22.3	135	1000/2000
3.140.4.5.1.0050.0.0010	10	0.5	9.2	37.1	167	1000/2000
3.140.4.5.1.0050.0.0020	20	0.5	11.1	74.1	248	1200
3.140.4.5.1.0050.0.0030	30	0.5	13.9	111.1	332	1200
3.140.4.5.1.0050.0.0040	40	0.5	14.9	148.1	387	1200
3.140.4.5.1.0050.0.0050	50	0.5	16.1	185.2	468	1200
3.140.4.5.1.0050.0.0070	70	0.5	17.9	259.2	577	1200
3.140.4.5.1.0050.0.0080	80	0.5	19	296.2	637	1200
3.140.4.5.1.0050.0.0100	100	0.5	21	377.5	794	1000
3.140.4.5.1.0050.0.0150	150	0.5	25.7	566.2	1182	1000
3.140.4.5.1.0050.0.0200	200	0.5	28.1	755	1440	1000

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.4.5.1.0060.0.0002	2	0.6	7.4	10.7	113	1000/2000
3.140.4.5.1.0060.0.0004	4	0.6	8.1	21.4	129	1000/2000
3.140.4.5.1.0060.0.0006	6	0.6	9.9	32	173	1000/2000
3.140.4.5.1.0060.0.0010	10	0.6	10.4	53.4	198	1200
3.140.4.5.1.0060.0.0020	20	0.6	13	106.7	307	1200
3.140.4.5.1.0060.0.0030	30	0.6	16.6	160	455	1200
3.140.4.5.1.0060.0.0040	40	0.6	17.9	213.3	561	1200
3.140.4.5.1.0060.0.0050	50	0.6	19.7	266.6	657	1200
3.140.4.5.1.0060.0.0070	70	0.6	22	373.2	816	1000
3.140.4.5.1.0060.0.0080	80	0.6	23.4	426.6	905	1000
3.140.4.5.1.0060.0.0100	100	0.6	26	543.6	1164	1000
3.140.4.5.1.0060.0.0150	150	0.6	32.3	815.4	1657	500
3.140.4.5.1.0060.0.0200	200	0.6	35.7	1087.1	2123	500

KPDF-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)
3.140.4.5.1.0080.0.0002	2	0.8	8.3	19	141	1000/2000
3.140.4.5.1.0080.0.0004	4	0.8	9.1	38	168	1000/2000
3.140.4.5.1.0080.0.0006	6	0.8	11.4	56.9	218	1200
3.140.4.5.1.0080.0.0010	10	0.8	12	94.8	260	1200
3.140.4.5.1.0080.0.0020	20	0.8	15.4	189.6	427	1200
3.140.4.5.1.0080.0.0030	30	0.8	20	284.4	652	1200
3.140.4.5.1.0080.0.0040	40	0.8	21.9	379.2	813	1000
3.140.4.5.1.0080.0.0050	50	0.8	24.1	473.9	965	1000
3.140.4.5.1.0080.0.0070	70	0.8	27.1	663.5	1234	1000
3.140.4.5.1.0080.0.0080	80	0.8	28.8	758.3	1383	1000
3.140.4.5.1.0080.0.0100	100	0.8	32.3	966.3	1778	500
3.140.4.5.1.0080.0.0150	150	0.8	40.3	1449.5	2602	400
3.140.4.5.1.0080.0.0200	200	0.8	44.7	1932.6	3345	400
Part Number	**Pair Count**	**Conductor Diameter (mm)**	**Approx. Cable Diameter (mm)**	**Copper Weight (kg/km)**	**Approx. Weight (kg/km)**	**Packing Lengths (m)**
3.140.4.5.1.0090.0.0002	2	0.9	8.6	24	150	1000/2000
3.140.4.5.1.0090.0.0004	4	0.9	9.6	48	182	1000/2000
3.140.4.5.1.0090.0.0006	6	0.9	12.1	72	242	1200
3.140.4.5.1.0090.0.0010	10	0.9	12.7	120	294	1200
3.140.4.5.1.0090.0.0020	20	0.9	16.4	240	516	1200
3.140.4.5.1.0090.0.0030	30	0.9	21.7	359.9	795	1000
3.140.4.5.1.0090.0.0040	40	0.9	23.7	479.9	1027	1000
3.140.4.5.1.0090.0.0050	50	0.9	26.2	599.8	1213	1000
3.140.4.5.1.0090.0.0070	70	0.9	29.4	839.7	1543	1000
3.140.4.5.1.0090.0.0080	80	0.9	31.3	959.7	1730	500
3.140.4.5.1.0090.0.0100	100	0.9	35.6	1223	2228	500
3.140.4.5.1.0090.0.0150	150	0.9	44	1834.5	3218	400
3.140.4.5.1.0090.0.0200	200	0.9	48.6	2446	4033	400

KPDF-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)
3.140.1.5.1.0040.1.0002	2	0.4	6.6	4.8	97	1000/2000
3.140.1.5.1.0040.1.0004	4	0.4	7.4	9.5	110	1000/2000
3.140.1.5.1.0040.1.0005	5	0.4	7.5	11.9	115	1000/2000
3.140.1.5.1.0040.1.0006	6	0.4	8.3	14.3	123	1000/2000
3.140.1.5.1.0040.1.0010	10	0.4	8.9	23.7	151	1000/2000
3.140.1.5.1.0040.1.0020	20	0.4	10.7	47.4	197	1200
3.140.1.5.1.0040.1.0025	25	0.4	11.8	59.3	224	1200
3.140.1.5.1.0040.1.0030	30	0.4	12.9	71.1	256	1200
3.140.1.5.1.0040.1.0040	40	0.4	13.8	94.8	315	1200
3.140.1.5.1.0040.1.0050	50	0.4	14.9	118.5	356	1200
3.140.1.5.1.0040.1.0070	70	0.4	16.3	165.9	454	1200
3.140.1.5.1.0040.1.0080	80	0.4	17.2	189.6	498	1200
3.140.1.5.1.0040.1.0100	100	0.4	19	241.6	587	1200
3.140.1.5.1.0040.1.0150	150	0.4	23.1	362.4	842	1000
3.140.1.5.1.0040.1.0200	200	0.4	25.4	483.2	1095	1000

KPDF-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)
3.140.1.5.1.0050.1.0002	2	0.5	7	7.5	104	1000/2000
3.140.1.5.1.0050.1.0004	4	0.5	8	14.9	121	1000/2000
3.140.1.5.1.0050.1.0005	5	0.5	8.1	18.6	128	1000/2000
3.140.1.5.1.0050.1.0006	6	0.5	9.1	22.3	141	1000/2000
3.140.1.5.1.0050.1.0010	10	0.5	10	37.1	177	1000/2000
3.140.1.5.1.0050.1.0020	20	0.5	12.1	74.1	245	1200
3.140.1.5.1.0050.1.0025	25	0.5	13.3	92.6	278	1200
3.140.1.5.1.0050.1.0030	30	0.5	14.8	111.1	349	1200
3.140.1.5.1.0050.1.0040	40	0.5	16	148.1	432	1200
3.140.1.5.1.0050.1.0050	50	0.5	17.2	185.2	493	1200
3.140.1.5.1.0050.1.0070	70	0.5	19	259.2	602	1200
3.140.1.5.1.0050.1.0080	80	0.5	19.9	296.2	660	1200
3.140.1.5.1.0050.1.0100	100	0.5	22.3	377.5	829	1000
3.140.1.5.1.0050.1.0150	150	0.5	27.2	566.2	1232	1000
3.140.1.5.1.0050.1.0200	200	0.5	29.8	755	1496	1000

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.1.5.1.0060.1.0002	2	0.6	7.6	10.7	113	1000/2000
3.140.1.5.1.0060.1.0004	4	0.6	9	21.4	140	1000/2000
3.140.1.5.1.0060.1.0005	5	0.6	9.1	26.7	158	1000/2000
3.140.1.5.1.0060.1.0006	6	0.6	10.4	32	179	1200
3.140.1.5.1.0060.1.0010	10	0.6	11.3	53.4	211	1200
3.140.1.5.1.0060.1.0020	20	0.6	14.2	106.7	331	1200
3.140.1.5.1.0060.1.0025	25	0.6	16	133.3	388	1200
3.140.1.5.1.0060.1.0030	30	0.6	17.7	160	481	1200
3.140.1.5.1.0060.1.0040	40	0.6	19.2	213.3	591	1200
3.140.1.5.1.0060.1.0050	50	0.6	20.8	266.6	684	1000
3.140.1.5.1.0060.1.0070	70	0.6	23.1	373.2	844	1000
3.140.1.5.1.0060.1.0080	80	0.6	24.7	426.6	1011	1000
3.140.1.5.1.0060.1.0100	100	0.6	27.6	543.6	1216	1000
3.140.1.5.1.0060.1.0150	150	0.6	34.2	815.4	1733	500
3.140.1.5.1.0060.1.0200	200	0.6	37.8	1087.1	2216	500

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.1.5.1.0063.1.0002	2	0.63	7.8	11.8	117	1000/2000
3.140.1.5.1.0063.1.0004	4	0.63	9.3	23.6	146	1000/2000
3.140.1.5.1.0063.1.0005	5	0.63	9.5	29.4	165	1000/2000
3.140.1.5.1.0063.1.0006	6	0.63	10.8	35.3	187	1200
3.140.1.5.1.0063.1.0010	10	0.63	11.8	58.8	224	1200
3.140.1.5.1.0063.1.0020	20	0.63	14.9	117.6	353	1200
3.140.1.5.1.0063.1.0025	25	0.63	16.8	147	421	1200
3.140.1.5.1.0063.1.0030	30	0.63	18.7	176.4	519	1200
3.140.1.5.1.0063.1.0040	40	0.63	20.3	235.2	642	1000
3.140.1.5.1.0063.1.0050	50	0.63	22.1	293.9	745	1000
3.140.1.5.1.0063.1.0070	70	0.63	24.6	411.5	923	1000
3.140.1.5.1.0063.1.0080	80	0.63	26.3	470.3	1102	1000
3.140.1.5.1.0063.1.0100	100	0.63	29.4	599.3	1332	1000
3.140.1.5.1.0063.1.0150	150	0.63	36.6	898.9	1913	500
3.140.1.5.1.0063.1.0200	200	0.63	40.4	1198.5	2447	400

KPDF-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)
3.140.1.5.1.0065.1.0002	2	0.65	8	12.6	119	1000/2000
3.140.1.5.1.0065.1.0004	4	0.65	9.5	25.1	149	1000/2000
3.140.1.5.1.0065.1.0005	5	0.65	9.7	31.3	170	1000/2000
3.140.1.5.1.0065.1.0006	6	0.65	11	37.6	193	1200
3.140.1.5.1.0065.1.0010	10	0.65	12.1	62.6	232	1200
3.140.1.5.1.0065.1.0020	20	0.65	15.3	125.2	366	1200
3.140.1.5.1.0065.1.0025	25	0.65	17.3	156.5	438	1200
3.140.1.5.1.0065.1.0030	30	0.65	19.2	187.8	542	1200
3.140.1.5.1.0065.1.0040	40	0.65	20.9	250.3	670	1000
3.140.1.5.1.0065.1.0050	50	0.65	22.8	312.9	779	1000
3.140.1.5.1.0065.1.0070	70	0.65	25.3	438	971	1000
3.140.1.5.1.0065.1.0080	80	0.65	27.1	500.6	1157	1000
3.140.1.5.1.0065.1.0100	100	0.65	30.3	637.9	1401	500
3.140.1.5.1.0065.1.0150	150	0.65	37.7	956.9	2021	500
3.140.1.5.1.0065.1.0200	200	0.65	41.8	1275.8	2582	400

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.1.5.1.0080.1.0002	2	0.8	8.5	19	143	1000/2000
3.140.1.5.1.0080.1.0004	4	0.8	10.3	38	184	1200
3.140.1.5.1.0080.1.0005	5	0.8	10.8	47.4	199	1200
3.140.1.5.1.0080.1.0006	6	0.8	12.4	56.9	233	1200
3.140.1.5.1.0080.1.0010	10	0.8	13.1	94.8	278	1200
3.140.1.5.1.0080.1.0020	20	0.8	16.9	189.6	458	1200
3.140.1.5.1.0080.1.0025	25	0.8	19.3	237	556	1200
3.140.1.5.1.0080.1.0030	30	0.8	21.8	284.4	696	1000
3.140.1.5.1.0080.1.0040	40	0.8	23.8	379.2	869	1000
3.140.1.5.1.0080.1.0050	50	0.8	26	473.9	1024	1000
3.140.1.5.1.0080.1.0070	70	0.8	29	663.5	1299	1000
3.140.1.5.1.0080.1.0080	80	0.8	31.1	758.3	1533	500
3.140.1.5.1.0080.1.0100	100	0.8	34.9	966.3	1884	500
3.140.1.5.1.0080.1.0150	150	0.8	43.6	1449.5	2767	400
3.140.1.5.1.0080.1.0200	200	0.8	48.3	1932.6	3543	400

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.1.5.1.0090.1.0002	2	0.9	8.9	24	152	1000/2000
3.140.1.5.1.0090.1.0004	4	0.9	10.8	48	199	1200
3.140.1.5.1.0090.1.0005	5	0.9	11.3	60	219	1200
3.140.1.5.1.0090.1.0006	6	0.9	13.1	72	258	1200
3.140.1.5.1.0090.1.0010	10	0.9	13.8	120	313	1200
3.140.1.5.1.0090.1.0020	20	0.9	18	240	552	1200
3.140.1.5.1.0090.1.0025	25	0.9	20.6	299.9	674	1000
3.140.1.5.1.0090.1.0030	30	0.9	23.3	359.9	837	1000
3.140.1.5.1.0090.1.0040	40	0.9	25.5	479.9	1080	1000
3.140.1.5.1.0090.1.0050	50	0.9	28.1	599.8	1277	1000
3.140.1.5.1.0090.1.0070	70	0.9	31.4	839.7	1615	500
3.140.1.5.1.0090.1.0080	80	0.9	34.1	959.7	1914	500
3.140.1.5.1.0090.1.0100	100	0.9	38.2	1223	2346	500
3.140.1.5.1.0090.1.0150	150	0.9	47.1	1834.5	3314	400
3.140.1.5.1.0090.1.0200	200	0.9	52.1	2446	4167	300