

## Outdoor Telephone Cables

# KPDF-PABP

A-02YSF(L)2YB2Y



### Application

- Direct burial.
- In underground cable ducts.
- 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 - 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 - Inner Jacket : Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248).
- 9 - Filling Compound : A filling compound (Jelly) is applied between inner jacket and armor in order to have waterproofness.
- 10 - Armor : Copolymer coated corrugated steel tape is applied to secure the cable from rodents.
- 11 - 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
<b>V (DC, 3 second)</b>							
Pair - Screen	9000	9000	9000	9000	9000	9000	9000

## KPDF-PABP (Pair)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.175.1.5.1.0040.1.0002	2	0.4	10	4.8	145	1000/2000
3.175.1.5.1.0040.1.0004	4	0.4	10.9	9.5	155	1200
3.175.1.5.1.0040.1.0006	6	0.4	11.7	14.3	171	1200
3.175.1.5.1.0040.1.0010	10	0.4	12	23.7	184	1200
3.175.1.5.1.0040.1.0020	20	0.4	14.6	47.4	267	1200
3.175.1.5.1.0040.1.0025	25	0.4	15.7	59.3	301	1200
3.175.1.5.1.0040.1.0030	30	0.4	16.8	71.1	349	1200
3.175.1.5.1.0040.1.0040	40	0.4	17.7	94.8	397	1200
3.175.1.5.1.0040.1.0050	50	0.4	18.7	118.5	444	1200
3.175.1.5.1.0040.1.0070	70	0.4	20.2	165.9	538	1000
3.175.1.5.1.0040.1.0080	80	0.4	21.1	189.6	586	1000
3.175.1.5.1.0040.1.0100	100	0.4	22.9	241.6	700	1000
3.175.1.5.1.0040.1.0150	150	0.4	27	362.4	965	1000
3.175.1.5.1.0040.1.0200	200	0.4	29.3	483.2	1189	1000
3.175.1.5.1.0040.1.0250	250	0.4	31.9	604	1397	500
3.175.1.5.1.0040.1.0300	300	0.4	34.1	724.8	1610	500
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.175.1.5.1.0050.1.0002	2	0.5	10.8	7.5	144	1200
3.175.1.5.1.0050.1.0004	4	0.5	11.9	14.9	177	1200
3.175.1.5.1.0050.1.0006	6	0.5	12.9	22.3	208	1200
3.175.1.5.1.0050.1.0010	10	0.5	13.2	37.1	227	1200
3.175.1.5.1.0050.1.0020	20	0.5	15.6	74.1	315	1200
3.175.1.5.1.0050.1.0025	25	0.5	17	92.6	365	1200
3.175.1.5.1.0050.1.0030	30	0.5	18.5	111.1	437	1200
3.175.1.5.1.0050.1.0040	40	0.5	19.6	148.1	505	1200
3.175.1.5.1.0050.1.0050	50	0.5	20.9	185.2	574	1000
3.175.1.5.1.0050.1.0070	70	0.5	22.7	259.2	708	1000
3.175.1.5.1.0050.1.0080	80	0.5	23.8	296.2	776	1000
3.175.1.5.1.0050.1.0100	100	0.5	26.2	377.5	947	1000
3.175.1.5.1.0050.1.0150	150	0.5	31.1	566.2	1336	500
3.175.1.5.1.0050.1.0200	200	0.5	34	755	1637	500
3.175.1.5.1.0050.1.0250	250	0.5	36.9	943.7	1885	500
3.175.1.5.1.0050.1.0300	300	0.5	40	1132.4	2312	500
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.175.1.5.1.0060.1.0002	2	0.6	10.3	10.7	138	1200
3.175.1.5.1.0060.1.0004	4	0.6	11.6	21.4	175	1200
3.175.1.5.1.0060.1.0006	6	0.6	13.8	32	241	1200
3.175.1.5.1.0060.1.0010	10	0.6	14.2	53.4	266	1200
3.175.1.5.1.0060.1.0020	20	0.6	17.8	106.7	409	1200
3.175.1.5.1.0060.1.0025	25	0.6	19.2	133.3	473	1200
3.175.1.5.1.0060.1.0030	30	0.6	21.4	160	570	1000
3.175.1.5.1.0060.1.0040	40	0.6	22.8	213.3	669	1000
3.175.1.5.1.0060.1.0050	50	0.6	24.5	266.6	777	1000
3.175.1.5.1.0060.1.0070	70	0.6	26.8	373.2	967	1000
3.175.1.5.1.0060.1.0080	80	0.6	28.2	426.6	1068	1000
3.175.1.5.1.0060.1.0100	100	0.6	31.1	543.6	1300	500
3.175.1.5.1.0060.1.0150	150	0.6	37.7	815.4	1890	500

## KPDF-PABP (Pair)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.175.1.5.1.0063.1.0002	2	0.63	10.5	11.8	144	1200
3.175.1.5.1.0063.1.0004	4	0.63	11.9	23.6	192	1200
3.175.1.5.1.0063.1.0006	6	0.63	14.3	35.3	252	1200
3.175.1.5.1.0063.1.0010	10	0.63	14.7	58.8	281	1200
3.175.1.5.1.0063.1.0020	20	0.63	18.5	117.6	436	1200
3.175.1.5.1.0063.1.0025	25	0.63	20.1	147	506	1000
3.175.1.5.1.0063.1.0030	30	0.63	22.4	176.4	623	1000
3.175.1.5.1.0063.1.0040	40	0.63	24	235.2	732	1000
3.175.1.5.1.0063.1.0050	50	0.63	25.8	293.9	852	1000
3.175.1.5.1.0063.1.0070	70	0.63	28.3	411.5	1062	1000
3.175.1.5.1.0063.1.0080	80	0.63	29.8	470.3	1174	1000
3.175.1.5.1.0063.1.0100	100	0.63	32.9	599.3	1443	500
3.175.1.5.1.0063.1.0150	150	0.63	40.1	898.9	2093	400
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.175.1.5.1.0080.1.0002	2	0.8	11.2	19	167	1200
3.175.1.5.1.0080.1.0004	4	0.8	13	38	231	1200
3.175.1.5.1.0080.1.0006	6	0.8	15.6	56.9	301	1200
3.175.1.5.1.0080.1.0010	10	0.8	16.2	94.8	352	1200
3.175.1.5.1.0080.1.0020	20	0.8	20.7	189.6	567	1000
3.175.1.5.1.0080.1.0025	25	0.8	22.5	237	663	1000
3.175.1.5.1.0080.1.0030	30	0.8	25.4	284.4	818	1000
3.175.1.5.1.0080.1.0040	40	0.8	27.4	379.2	993	1000
3.175.1.5.1.0080.1.0050	50	0.8	29.6	473.9	1170	1000
3.175.1.5.1.0080.1.0070	70	0.8	32.7	663.5	1481	500
3.175.1.5.1.0080.1.0080	80	0.8	34.6	758.3	1653	500
3.175.1.5.1.0080.1.0100	100	0.8	38.4	966.3	2045	500