



### 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 - 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
<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

## PDF-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)
3.140.4.1.1.0040.0.0002	2	0.4	6.6	4.8	100	1000/2000
3.140.4.1.1.0040.0.0004	4	0.4	7.1	9.5	109	1000/2000
3.140.4.1.1.0040.0.0006	6	0.4	8.2	14.3	126	1000/2000
3.140.4.1.1.0040.0.0010	10	0.4	8.9	23.7	142	1000/2000
3.140.4.1.1.0040.0.0020	20	0.4	10.7	47.4	201	1200
3.140.4.1.1.0040.0.0030	30	0.4	13.3	71.1	269	1200
3.140.4.1.1.0040.0.0040	40	0.4	14.2	94.8	311	1200
3.140.4.1.1.0040.0.0050	50	0.4	15.4	118.5	379	1200
3.140.4.1.1.0040.0.0070	70	0.4	17.1	165.9	464	1200
3.140.4.1.1.0040.0.0080	80	0.4	18	189.6	537	1200
3.140.4.1.1.0040.0.0100	100	0.4	19.9	241.6	637	1200
3.140.4.1.1.0040.0.0150	150	0.4	24.3	362.4	916	1000
3.140.4.1.1.0040.0.0200	200	0.4	26.6	483.2	1181	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.4.1.1.0050.0.0002	2	0.5	7.1	7.5	106	1000/2000
3.140.4.1.1.0050.0.0004	4	0.5	7.7	14.9	119.6	1000/2000
3.140.4.1.1.0050.0.0006	6	0.5	9	22.3	144	1000/2000
3.140.4.1.1.0050.0.0010	10	0.5	9.7	37.1	177	1000/2000
3.140.4.1.1.0050.0.0020	20	0.5	11.9	74.1	267	1200
3.140.4.1.1.0050.0.0030	30	0.5	15.1	111.1	390	1200
3.140.4.1.1.0050.0.0040	40	0.5	16.3	148.1	449	1200
3.140.4.1.1.0050.0.0050	50	0.5	17.6	185.2	546	1200
3.140.4.1.1.0050.0.0070	70	0.5	19.7	259.2	669	1200
3.140.4.1.1.0050.0.0080	80	0.5	20.5	296.2	738	1000
3.140.4.1.1.0050.0.0100	100	0.5	23.2	377.5	957	1000
3.140.4.1.1.0050.0.0150	150	0.5	28.4	566.2	1328	1000
3.140.4.1.1.0050.0.0200	200	0.5	31.2	755	1695	500
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.4.1.1.0060.0.0002	2	0.6	8	10.7	120	1000/2000
3.140.4.1.1.0060.0.0004	4	0.6	8.8	21.4	142	1000/2000
3.140.4.1.1.0060.0.0006	6	0.6	10.8	32	190	1200
3.140.4.1.1.0060.0.0010	10	0.6	11.6	53.4	223	1200
3.140.4.1.1.0060.0.0020	20	0.6	14.7	106.7	352	1200
3.140.4.1.1.0060.0.0030	30	0.6	19	160	536	1200
3.140.4.1.1.0060.0.0040	40	0.6	20.7	213.3	635	1000
3.140.4.1.1.0060.0.0050	50	0.6	22.6	266.6	771	1000
3.140.4.1.1.0060.0.0070	70	0.6	25.4	373.2	970	1000
3.140.4.1.1.0060.0.0080	80	0.6	26.7	426.6	1081	1000
3.140.4.1.1.0060.0.0100	100	0.6	30.3	543.6	1395	500
3.140.4.1.1.0060.0.0150	150	0.6	37.6	815.4	2011	500
3.140.4.1.1.0060.0.0200	200	0.6	41.5	1087.1	2559	400

## PDF-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)
3.140.4.1.1.0080.0.0002	2	0.8	9	19	151	1000/2000
3.140.4.1.1.0080.0.0004	4	0.8	10	38	185	1000/2000
3.140.4.1.1.0080.0.0006	6	0.8	12.5	56.9	243	1200
3.140.4.1.1.0080.0.0010	10	0.8	13.4	94.8	295	1200
3.140.4.1.1.0080.0.0020	20	0.8	17.4	189.6	519	1200
3.140.4.1.1.0080.0.0030	30	0.8	23	284.4	803	1000
3.140.4.1.1.0080.0.0040	40	0.8	25.4	379.2	1040	1000
3.140.4.1.1.0080.0.0050	50	0.8	28	473.9	1231	1000
3.140.4.1.1.0080.0.0070	70	0.8	31.4	663.5	1550	500
3.140.4.1.1.0080.0.0080	80	0.8	33.2	758.3	1734	500
3.140.4.1.1.0080.0.0100	100	0.8	38.3	966.3	2254	500
3.140.4.1.1.0080.0.0150	150	0.8	47.6	1449.5	3281	400
3.140.4.1.1.0080.0.0200	200	0.8	52.3	1932.6	4094	300
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.4.1.1.0090.0.0002	2	0.9	9.2	24	160	1000/2000
3.140.4.1.1.0090.0.0004	4	0.9	10.3	48	198	1200
3.140.4.1.1.0090.0.0006	6	0.9	13	72	265	1200
3.140.4.1.1.0090.0.0010	10	0.9	13.9	120	328	1200
3.140.4.1.1.0090.0.0020	20	0.9	18.1	240	581	1200
3.140.4.1.1.0090.0.0030	30	0.9	24.2	359.9	909	1000
3.140.4.1.1.0090.0.0040	40	0.9	26.5	479.9	1172	1000
3.140.4.1.1.0090.0.0050	50	0.9	29.3	599.8	1392	1000
3.140.4.1.1.0090.0.0070	70	0.9	32.8	839.7	1774	500
3.140.4.1.1.0090.0.0080	80	0.9	34.7	959.7	1990	500
3.140.4.1.1.0090.0.0100	100	0.9	40	1223	2583	500
3.140.4.1.1.0090.0.0150	150	0.9	49.9	1834.5	3788	400
3.140.4.1.1.0090.0.0200	200	0.9	54.9	2446	4753	300

## PDF-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)
3.140.1.1.1.0040.1.0002	2	0.4	6.9	4.8	102	1000/2000
3.140.1.1.1.0040.1.0004	4	0.4	7.9	9.5	117	1000/2000
3.140.1.1.1.0040.1.0005	5	0.4	8.1	11.9	121	1000/2000
3.140.1.1.1.0040.1.0006	6	0.4	9	14.3	134	1000/2000
3.140.1.1.1.0040.1.0010	10	0.4	9.7	23.7	164	1000/2000
3.140.1.1.1.0040.1.0020	20	0.4	11.8	47.4	239	1200
3.140.1.1.1.0040.1.0025	25	0.4	12.8	59.3	275	1200
3.140.1.1.1.0040.1.0030	30	0.4	14.4	71.1	314	1200
3.140.1.1.1.0040.1.0040	40	0.4	15.6	94.8	386	1200
3.140.1.1.1.0040.1.0050	50	0.4	16.8	118.5	436	1200
3.140.1.1.1.0040.1.0070	70	0.4	18.7	165.9	530	1200
3.140.1.1.1.0040.1.0080	80	0.4	19.8	189.6	610	1200
3.140.1.1.1.0040.1.0100	100	0.4	21.9	241.6	725	1000
3.140.1.1.1.0040.1.0150	150	0.4	26.8	362.4	1005	1000
3.140.1.1.1.0040.1.0200	200	0.4	29.5	483.2	1298	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.1.1.1.0050.1.0002	2	0.5	7.5	7.5	110	1000/2000
3.140.1.1.1.0050.1.0004	4	0.5	8.8	14.9	134	1000/2000
3.140.1.1.1.0050.1.0005	5	0.5	8.6	18.6	138	1000/2000
3.140.1.1.1.0050.1.0006	6	0.5	10.1	22.3	159	1200
3.140.1.1.1.0050.1.0010	10	0.5	10.9	37.1	195	1200
3.140.1.1.1.0050.1.0020	20	0.5	13.6	74.1	298	1200
3.140.1.1.1.0050.1.0025	25	0.5	15.2	92.6	356	1200
3.140.1.1.1.0050.1.0030	30	0.5	17	111.1	434	1200
3.140.1.1.1.0050.1.0040	40	0.5	18.4	148.1	533	1200
3.140.1.1.1.0050.1.0050	50	0.5	20	185.2	610	1200
3.140.1.1.1.0050.1.0070	70	0.5	22.4	259.2	755	1000
3.140.1.1.1.0050.1.0080	80	0.5	23.7	296.2	836	1000
3.140.1.1.1.0050.1.0100	100	0.5	26.7	377.5	1083	1000
3.140.1.1.1.0050.1.0150	150	0.5	32.8	566.2	1524	500
3.140.1.1.1.0050.1.0200	200	0.5	36.3	755	1945	500

## PDF-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)
3.140.1.1.1.0060.1.0002	2	0.6	8.3	10.7	123	1000/2000
3.140.1.1.1.0060.1.0004	4	0.6	10	21.4	166	1000/2000
3.140.1.1.1.0060.1.0005	5	0.6	9.9	26.7	176	1000/2000
3.140.1.1.1.0060.1.0006	6	0.6	11.7	32	205	1200
3.140.1.1.1.0060.1.0010	10	0.6	12.6	53.4	262	1200
3.140.1.1.1.0060.1.0020	20	0.6	16.1	106.7	386	1200
3.140.1.1.1.0060.1.0025	25	0.6	18.3	133.3	500	1200
3.140.1.1.1.0060.1.0030	30	0.6	20.6	160	579	1000
3.140.1.1.1.0060.1.0040	40	0.6	22.4	213.3	715	1000
3.140.1.1.1.0060.1.0050	50	0.6	24.5	266.6	834	1000
3.140.1.1.1.0060.1.0070	70	0.6	27.5	373.2	1049	1000
3.140.1.1.1.0060.1.0080	80	0.6	29.3	426.6	1172	1000
3.140.1.1.1.0060.1.0100	100	0.6	33.1	543.6	1519	500
3.140.1.1.1.0060.1.0150	150	0.6	41.2	815.4	2211	400
3.140.1.1.1.0060.1.0200	200	0.6	45.7	1087.1	2819	400
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.1.1.1.0063.1.0002	2	0.63	8.5	11.8	138	1000/2000
3.140.1.1.1.0063.1.0004	4	0.63	10.3	23.6	175	1200
3.140.1.1.1.0063.1.0005	5	0.63	10.3	29.4	184	1200
3.140.1.1.1.0063.1.0006	6	0.63	12.2	35.3	216	1200
3.140.1.1.1.0063.1.0010	10	0.63	13.1	58.8	277	1200
3.140.1.1.1.0063.1.0020	20	0.63	16.9	117.6	437	1200
3.140.1.1.1.0063.1.0025	25	0.63	19.5	147	562	1200
3.140.1.1.1.0063.1.0030	30	0.63	21.8	176.4	662	1000
3.140.1.1.1.0063.1.0040	40	0.63	23.8	235.2	848	1000
3.140.1.1.1.0063.1.0050	50	0.63	26.2	293.9	989	1000
3.140.1.1.1.0063.1.0070	70	0.63	29.2	411.5	1221	1000
3.140.1.1.1.0063.1.0080	80	0.63	30.8	470.3	1357	500
3.140.1.1.1.0063.1.0100	100	0.63	34.8	599.3	1742	500
3.140.1.1.1.0063.1.0150	150	0.63	43.3	898.9	2506	400
3.140.1.1.1.0063.1.0200	200	0.63	47.8	1198.5	3088	400

## PDF-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)
3.140.1.1.1.0065.1.0002	2	0.65	8.8	12.6	143	1000/2000
3.140.1.1.1.0065.1.0004	4	0.65	10.7	25.1	181	1200
3.140.1.1.1.0065.1.0005	5	0.65	10.6	31.3	192	1200
3.140.1.1.1.0065.1.0006	6	0.65	12.6	37.6	227	1200
3.140.1.1.1.0065.1.0010	10	0.65	13.6	62.6	289	1200
3.140.1.1.1.0065.1.0020	20	0.65	17.6	125.2	465	1200
3.140.1.1.1.0065.1.0025	25	0.65	20.3	156.5	602	1000
3.140.1.1.1.0065.1.0030	30	0.65	22.8	187.8	704	1000
3.140.1.1.1.0065.1.0040	40	0.65	24.9	250.3	901	1000
3.140.1.1.1.0065.1.0050	50	0.65	27.4	312.9	1058	1000
3.140.1.1.1.0065.1.0070	70	0.65	30.7	438	1312	500
3.140.1.1.1.0065.1.0080	80	0.65	32.4	500.6	1460	500
3.140.1.1.1.0065.1.0100	100	0.65	36.6	637.9	1879	500
3.140.1.1.1.0065.1.0150	150	0.65	45.6	956.9	2714	400
3.140.1.1.1.0065.1.0200	200	0.65	50.4	1275.8	3355	300
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.140.1.1.1.0080.1.0002	2	0.8	9.2	19	155	1000/2000
3.140.1.1.1.0080.1.0004	4	0.8	11.3	38	225	1200
3.140.1.1.1.0080.1.0005	5	0.8	11.3	47.4	238	1200
3.140.1.1.1.0080.1.0006	6	0.8	13.8	56.9	287	1200
3.140.1.1.1.0080.1.0010	10	0.8	14.6	94.8	340	1200
3.140.1.1.1.0080.1.0020	20	0.8	19	189.6	562	1200
3.140.1.1.1.0080.1.0025	25	0.8	22.1	237	729	1000
3.140.1.1.1.0080.1.0030	30	0.8	24.8	284.4	861	1000
3.140.1.1.1.0080.1.0040	40	0.8	27.2	379.2	1105	1000
3.140.1.1.1.0080.1.0050	50	0.8	30	473.9	1307	1000
3.140.1.1.1.0080.1.0070	70	0.8	33.6	663.5	1651	500
3.140.1.1.1.0080.1.0080	80	0.8	35.5	758.3	1849	500
3.140.1.1.1.0080.1.0100	100	0.8	40.2	966.3	2378	400
3.140.1.1.1.0080.1.0150	150	0.8	50.3	1449.5	3484	300
3.140.1.1.1.0080.1.0200	200	0.8	55.7	1932.6	4349	300

## PDF-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)
3.140.1.1.1.0090.1.0002	2	0.9	9.5	24	163	1000/2000
3.140.1.1.1.0090.1.0004	4	0.9	11.7	48	239	1200
3.140.1.1.1.0090.1.0005	5	0.9	11.7	60	257	1200
3.140.1.1.1.0090.1.0006	6	0.9	14.2	72	311	1200
3.140.1.1.1.0090.1.0010	10	0.9	15.1	120	397	1200
3.140.1.1.1.0090.1.0020	20	0.9	19.8	240	626	1200
3.140.1.1.1.0090.1.0025	25	0.9	23	299.9	813	1000
3.140.1.1.1.0090.1.0030	30	0.9	25.9	359.9	966	1000
3.140.1.1.1.0090.1.0040	40	0.9	28.3	479.9	1242	1000
3.140.1.1.1.0090.1.0050	50	0.9	31.3	599.8	1476	500
3.140.1.1.1.0090.1.0070	70	0.9	35.1	839.7	1881	500
3.140.1.1.1.0090.1.0080	80	0.9	37.1	959.7	2112	500
3.140.1.1.1.0090.1.0100	100	0.9	42.1	1223	2715	400
3.140.1.1.1.0090.1.0150	150	0.9	52.7	1834.5	3999	300
3.140.1.1.1.0090.1.0200	200	0.9	58.3	2446	5024	300