



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.
- In indoor installations.

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 - Inner Jacket: Flame retardant, UV resistant halogen-free outer jacket. RAL 7035 (Grey)
- 6 - Screen : Both sides are coated with copolymer coated flat aluminum tape over cable core longitudinally for screening.
- 7 - Outer Jacket: Flame retardant, UV resistant halogen-free outer jacket. RAL 7035 (Grey)

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
V (DC, 3 second)							
Pair - Screen	9000	9000	9000	9000	9000	9000	9000

KPD-HAH (Quad)

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.110.4.5.3.0050.0.0002	2	0.5	8.1	7.5	72	1000/2000
3.110.4.5.3.0050.0.0004	4	0.5	8.6	14.9	85	1000/2000
3.110.4.5.3.0050.0.0006	6	0.5	9.7	22.3	107	1000/2000
3.110.4.5.3.0050.0.0010	10	0.5	9.7	37.1	124	1000/2000
3.110.4.5.3.0050.0.0020	20	0.5	11.7	74.1	186	1200
3.110.4.5.3.0050.0.0030	30	0.5	14.4	111.1	260	1200
3.110.4.5.3.0050.0.0040	40	0.5	15.3	148.1	313	1200
3.110.4.5.3.0050.0.0050	50	0.5	16.4	185.2	366	1200
3.110.4.5.3.0050.0.0070	70	0.5	17.9	259.2	465	1200
3.110.4.5.3.0050.0.0080	80	0.5	18.8	296.2	517	1200
3.110.4.5.3.0050.0.0100	100	0.5	20.9	377.5	635	1000
3.110.4.5.3.0050.0.0150	150	0.5	24.9	566.2	896	1000
3.110.4.5.3.0050.0.0200	200	0.5	27.4	755	1140	1000
Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.110.4.5.3.0090.0.0002	2	0.9	9.3	24	106	1000/2000
3.110.4.5.3.0090.0.0004	4	0.9	10.8	48	150	1200
3.110.4.5.3.0090.0.0006	6	0.9	12.9	72	201	1200
3.110.4.5.3.0090.0.0010	10	0.9	13.4	120	259	1200
3.110.4.5.3.0090.0.0020	20	0.9	16.8	240	435	1200
3.110.4.5.3.0090.0.0030	30	0.9	21.8	359.9	628	1000
3.110.4.5.3.0090.0.0040	40	0.9	23.7	479.9	787	1000
3.110.4.5.3.0090.0.0050	50	0.9	26	599.8	954	1000
3.110.4.5.3.0090.0.0070	70	0.9	29.3	839.7	1280	1000
3.110.4.5.3.0090.0.0080	80	0.9	31.3	959.7	1452	500
3.110.4.5.3.0090.0.0100	100	0.9	35.5	1223	1831	500