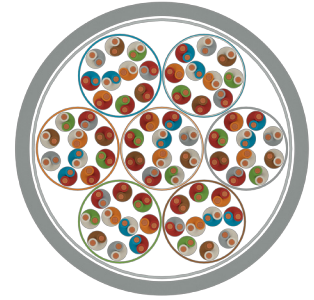
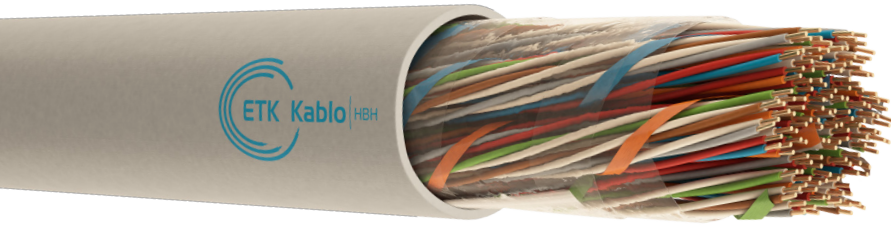


Indoor Telephone Cables

HBH J-HH



Application

- In indoor installations.
- Telephone exchanges and subscriber distributions.
- Signal and data transmission.

Cable Construction

- 1 - Conductor : Class 1 electrolytic solid copper (IEC 60228, DIN VDE 0295, EN 60228)
- 2 - Insulation : Halogen-free (TS IEC 60189-2)
- 3 - Stranding : In layers up to 10 pairs, 20 pairs to 100 pairs consist of stranding of 10 pair groups wrapped with polypropylene identification tape
- 4 - Wrapping : A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically. (More than 10 pairs)
- 5 - Outer Jacket: UV resistant PVC outer jacket. RAL 7035 (Grey)

Technical Characteristics

Conductor Diameter	Conductor Resistance Ω/km (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$	Mutual Capacitance nF/km	Capacitance Unbalance $\text{pF}/500 \text{ m}$	Test Voltage V (DC, 1 minute)
0.40 mm	146.6	500	120	400	1000
0.50 mm	93	500	120	400	1000
0.60 mm	64.6	500	110	400	1000
0.80 mm	37	500	100	400	1000
0.90 mm	28.8	500	100	400	1000

Mechanical Characteristics

Bending Radius	Temperature Range Operating
10xD mm	-30°C~+70°C

Standards

Smoke Density Test	Corrosive Gas Test	Flame Propagation Test	Flame Retardancy Test
IEC 61034-2, VDE 0482-1034-2, EN 61034-2	IEC 60754-2, VDE 0482-267-2-3, EN 50267-2-3	IEC 60332-3-24, VDE 0482-332-3-24, EN 60332-2-24	IEC 60332-1-2, VDE 0482-332-1-2, EN 60332-1-2

Notes

Reference Standard: DIN VDE 0816, TSEK 116

HBH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.330.1.3.3.0040.0.0001	1	0.4	2.8	3.6	10	100/500/1000
3.330.1.3.3.0040.0.0002	2	0.4	3.2	5.9	14	100/500/1000
3.330.1.3.3.0040.0.0003	3	0.4	3.8	8.3	19	100/500/1000
3.330.1.3.3.0040.0.0004	4	0.4	4.5	10.7	24	100/500/1000
3.330.1.3.3.0040.0.0005	5	0.4	4.8	13	29	100/500/1000
3.330.1.3.3.0040.0.0006	6	0.4	5	15.4	32	100/500/1000
3.330.1.3.3.0040.0.0007	7	0.4	5.4	17.7	38	100/500/1000
3.330.1.3.3.0040.0.0008	8	0.4	5.6	20.1	41	100/500/1000
3.330.1.3.3.0040.0.0010	10	0.4	6.3	26	54	100/500/1000
3.330.1.3.3.0040.0.0012	12	0.4	6.8	30.7	62	100/500/1000
3.330.1.3.3.0040.0.0014	14	0.4	7.2	35.4	70	100/500/1000
3.330.1.3.3.0040.0.0015	15	0.4	7.4	37.8	74	100/500/1000
3.330.1.3.3.0040.0.0016	16	0.4	7.6	40.1	77	100/500/1000
3.330.1.3.3.0040.0.0020	20	0.4	7.7	49.8	91	100/500/1000
3.330.1.3.3.0040.0.0025	25	0.4	9.1	61.4	112	100/500/1000
3.330.1.3.3.0040.0.0030	30	0.4	10.3	73.5	133	100/500/1000
3.330.1.3.3.0040.0.0040	40	0.4	11.4	97.2	170	100/500/1000
3.330.1.3.3.0040.0.0050	50	0.4	12.6	120.9	208	100/500/1000
3.330.1.3.3.0040.0.0060	60	0.4	13.6	144.6	243	100/500/1000
3.330.1.3.3.0040.0.0070	70	0.4	14.3	168.3	283	100/500/1000
3.330.1.3.3.0040.0.0080	80	0.4	15.3	192	318	100/500/1000
3.330.1.3.3.0040.0.0100	100	0.4	17.4	238.2	396	100/500/1000
3.330.1.3.3.0040.0.0150	150	0.4	21.7	362.6	583	100/500/1000
3.330.1.3.3.0040.0.0200	200	0.4	24	483.4	753	100/500/1000
3.330.1.3.3.0040.0.0250	250	0.4	26.9	604.3	942	100/500/1000
3.330.1.3.3.0040.0.0300	300	0.4	29.4	725.1	1126	100/500/1000
3.330.1.3.3.0040.0.0400	400	0.4	33	966.8	1470	100/500/1000
3.330.1.3.3.0040.0.0500	500	0.4	37.7	1208.5	1818	100/500/1000
3.330.1.3.3.0040.0.0600	600	0.4	40.9	1450.2	2155	100/500/1000

HBH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.330.1.3.3.0040.0.00600	1	0.5	3.1	5.5	13	100/500/1000
3.330.1.3.3.0050.0.0001	2	0.5	3.5	9.2	19	100/500/1000
3.330.1.3.3.0050.0.0002	3	0.5	4.3	12.9	26	100/500/1000
3.330.1.3.3.0050.0.0003	4	0.5	5.1	16.6	33	100/500/1000
3.330.1.3.3.0050.0.0004	5	0.5	5.4	20.3	39	100/500/1000
3.330.1.3.3.0050.0.0005	6	0.5	5.6	24	44	100/500/1000
3.330.1.3.3.0050.0.0006	7	0.5	6.1	27.7	51	100/500/1000
3.330.1.3.3.0050.0.0007	8	0.5	6.4	31.4	57	100/500/1000
3.330.1.3.3.0050.0.0008	10	0.5	7.2	40.6	74	100/500/1000
3.330.1.3.3.0050.0.0010	12	0.5	7.7	47.9	86	100/500/1000
3.330.1.3.3.0050.0.0012	14	0.5	8.2	55.3	97	100/500/1000
3.330.1.3.3.0050.0.0014	15	0.5	8.4	59	102	100/500/1000
3.330.1.3.3.0050.0.0015	16	0.5	8.6	62.7	107	100/500/1000
3.330.1.3.3.0050.0.0016	20	0.5	8.7	77.8	127	100/500/1000
3.330.1.3.3.0050.0.0020	25	0.5	10.4	95.8	158	100/500/1000
3.330.1.3.3.0050.0.0025	30	0.5	11.8	114.8	187	100/500/1000
3.330.1.3.3.0050.0.0030	40	0.5	13.1	151.8	240	100/500/1000
3.330.1.3.3.0050.0.0040	50	0.5	14.5	188.9	295	100/500/1000
3.330.1.3.3.0050.0.0050	60	0.5	15.6	225.9	347	100/500/1000
3.330.1.3.3.0050.0.0060	70	0.5	16.5	262.9	403	100/500/1000
3.330.1.3.3.0050.0.0070	80	0.5	17.6	299.9	455	100/500/1000
3.330.1.3.3.0050.0.0080	100	0.5	20.1	372.1	565	100/500/1000
3.330.1.3.3.0050.0.0100	150	0.5	25.2	566.5	839	100/500/1000
3.330.1.3.3.0050.0.0150	200	0.5	27.9	755.3	1089	100/500/1000
3.330.1.3.3.0050.0.0200	250	0.5	31.3	944.1	1362	100/500/1000
3.330.1.3.3.0050.0.0250	300	0.5	34.1	1133	1629	100/500/1000
3.330.1.3.3.0050.0.0300	400	0.5	38.4	1510.6	2136	100/500/1000
3.330.1.3.3.0050.0.0400	500	0.5	43.9	1888.2	2648	100/500/1000
3.330.1.3.3.0050.0.0500	600	0.5	47.7	2265.9	3147	100/500/1000

HBH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.330.1.3.3.0050.0.0600	1	0.6	3.7	8	19	100/500/1000
3.330.1.3.3.0060.0.0001	2	0.6	4.3	13.2	27	100/500/1000
3.330.1.3.3.0060.0.0002	3	0.6	5.3	18.6	38	100/500/1000
3.330.1.3.3.0060.0.0003	4	0.6	6.2	23.9	48	100/500/1000
3.330.1.3.3.0060.0.0004	5	0.6	6.6	29.2	57	100/500/1000
3.330.1.3.3.0060.0.0005	6	0.6	6.9	34.5	65	100/500/1000
3.330.1.3.3.0060.0.0006	7	0.6	7.5	39.8	73	100/500/1000
3.330.1.3.3.0060.0.0007	8	0.6	7.9	45.1	83	100/500/1000
3.330.1.3.3.0060.0.0008	10	0.6	8.8	58.4	106	100/500/1000
3.330.1.3.3.0060.0.0010	12	0.6	9.5	69	123	100/500/1000
3.330.1.3.3.0060.0.0012	14	0.6	10.1	79.6	139	100/500/1000
3.330.1.3.3.0060.0.0014	15	0.6	10.4	84.9	147	100/500/1000
3.330.1.3.3.0060.0.0015	16	0.6	10.6	90.2	155	100/500/1000
3.330.1.3.3.0060.0.0016	20	0.6	10.7	112	185	100/500/1000
3.330.1.3.3.0060.0.0020	25	0.6	12.9	138	230	100/500/1000
3.330.1.3.3.0060.0.0025	30	0.6	14.7	165.3	272	100/500/1000
3.330.1.3.3.0060.0.0030	40	0.6	16.3	218.6	352	100/500/1000
3.330.1.3.3.0060.0.0040	50	0.6	18.1	271.9	433	100/500/1000
3.330.1.3.3.0060.0.0050	60	0.6	19.6	325.3	510	100/500/1000
3.330.1.3.3.0060.0.0060	70	0.6	20.7	378.6	592	100/500/1000
3.330.1.3.3.0060.0.0070	80	0.6	22.2	431.9	670	100/500/1000
3.330.1.3.3.0060.0.0080	100	0.6	25.3	535.8	833	100/500/1000
3.330.1.3.3.0060.0.0100	150	0.6	31.8	815.7	1241	100/500/1000
3.330.1.3.3.0060.0.0150	200	0.6	35.6	1087.6	1632	100/500/1000
3.330.1.3.3.0060.0.0200	250	0.6	39.9	1359.5	2047	100/500/1000
3.330.1.3.3.0060.0.0250	300	0.6	43.3	1631.4	2429	100/500/1000
3.330.1.3.3.0060.0.0300	400	0.6	48.8	2175.2	3181	100/500/1000
3.330.1.3.3.0060.0.0400	500	0.6	55.9	2719	3949	100/500/1000
3.330.1.3.3.0060.0.0500	600	0.6	60.8	3262.8	4699	100/500/1000

HBH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.330.1.3.3.0060.0.0600	1	0.8	4.5	14.1	29	100/500/1000
3.330.1.3.3.0080.0.0001	2	0.8	5.2	23.5	43	100/500/1000
3.330.1.3.3.0080.0.0002	3	0.8	6.4	33.1	60	100/500/1000
3.330.1.3.3.0080.0.0003	4	0.8	7.7	42.5	76	100/500/1000
3.330.1.3.3.0080.0.0004	5	0.8	8.1	51.9	90	100/500/1000
3.330.1.3.3.0080.0.0005	6	0.8	8.5	61.4	104	100/500/1000
3.330.1.3.3.0080.0.0006	7	0.8	9.2	70.8	118	100/500/1000
3.330.1.3.3.0080.0.0007	8	0.8	9.5	80.2	129	100/500/1000
3.330.1.3.3.0080.0.0008	10	0.8	10.6	103.8	168	100/500/1000
3.330.1.3.3.0080.0.0010	12	0.8	11.6	122.7	199	100/500/1000
3.330.1.3.3.0080.0.0012	14	0.8	12.4	141.5	226	100/500/1000
3.330.1.3.3.0080.0.0014	15	0.8	12.8	151	239	100/500/1000
3.330.1.3.3.0080.0.0015	16	0.8	13.1	160.4	253	100/500/1000
3.330.1.3.3.0080.0.0016	20	0.8	13.3	199.1	306	100/500/1000
3.330.1.3.3.0080.0.0020	25	0.8	16.1	245.3	379	100/500/1000
3.330.1.3.3.0080.0.0025	30	0.8	18.7	293.9	465	100/500/1000
3.330.1.3.3.0080.0.0030	40	0.8	20.7	388.6	596	100/500/1000
3.330.1.3.3.0080.0.0040	50	0.8	22.9	483.4	728	100/500/1000
3.330.1.3.3.0080.0.0050	60	0.8	24.7	578.2	859	100/500/1000
3.330.1.3.3.0080.0.0060	70	0.8	25.9	673	985	100/500/1000
3.330.1.3.3.0080.0.0070	80	0.8	28	767.8	1127	100/500/1000
3.330.1.3.3.0080.0.0080	100	0.8	31.7	952.6	1386	100/500/1000
3.330.1.3.3.0080.0.0100	150	0.8	40.2	1450.2	2091	100/500/1000
3.330.1.3.3.0080.0.0150	200	0.8	44.9	1933.5	2752	100/500/1000
3.330.1.3.3.0080.0.0200	250	0.8	49.9	2416.9	3402	100/500/1000
3.330.1.3.3.0080.0.0250	300	0.8	54.3	2900.3	4048	100/500/1000
3.330.1.3.3.0080.0.0300	400	0.8	61.2	3867	5324	100/500/1000
3.330.1.3.3.0080.0.0400	500	0.8	70.2	4833.8	6624	100/500/1000
3.330.1.3.3.0080.0.0500	600	0.8	76.5	5800.5	7899	100/500/1000

HBH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.330.1.3.3.0080.0.0600	1	0.9	5	17.9	36	100/500/1000
3.330.1.3.3.0090.0.0001	2	0.9	5.9	29.7	54	100/500/1000
3.330.1.3.3.0090.0.0002	3	0.9	7.2	41.8	75	100/500/1000
3.330.1.3.3.0090.0.0003	4	0.9	8.6	53.8	95	100/500/1000
3.330.1.3.3.0090.0.0004	5	0.9	9.1	65.7	114	100/500/1000
3.330.1.3.3.0090.0.0005	6	0.9	9.6	77.6	131	100/500/1000
3.330.1.3.3.0090.0.0006	7	0.9	10.4	89.6	149	100/500/1000
3.330.1.3.3.0090.0.0007	8	0.9	10.9	101.5	168	100/500/1000
3.330.1.3.3.0090.0.0008	10	0.9	12.1	131.4	215	100/500/1000
3.330.1.3.3.0090.0.0010	12	0.9	13	155.2	248	100/500/1000
3.330.1.3.3.0090.0.0012	14	0.9	14.1	179.1	288	100/500/1000
3.330.1.3.3.0090.0.0014	15	0.9	14.5	191	305	100/500/1000
3.330.1.3.3.0090.0.0015	16	0.9	14.9	203	322	100/500/1000
3.330.1.3.3.0090.0.0016	20	0.9	15.3	252	395	100/500/1000
3.330.1.3.3.0090.0.0020	25	0.9	18.5	310.4	491	100/500/1000
3.330.1.3.3.0090.0.0025	30	0.9	21	371.9	582	100/500/1000
3.330.1.3.3.0090.0.0030	40	0.9	23.4	491.9	752	100/500/1000
3.330.1.3.3.0090.0.0040	50	0.9	26	611.8	926	100/500/1000
3.330.1.3.3.0090.0.0050	60	0.9	28.1	731.8	1092	100/500/1000
3.330.1.3.3.0090.0.0060	70	0.9	29.4	851.7	1253	100/500/1000
3.330.1.3.3.0090.0.0070	80	0.9	31.6	971.7	1420	100/500/1000
3.330.1.3.3.0090.0.0080	100	0.9	36.1	1205.6	1763	100/500/1000
3.330.1.3.3.0090.0.0100	150	0.9	45.5	1835.4	2641	100/500/1000
3.330.1.3.3.0090.0.0150	200	0.9	50.9	2447.1	3480	100/500/1000
3.330.1.3.3.0090.0.0200	250	0.9	56.6	3058.9	4307	100/500/1000
3.330.1.3.3.0090.0.0250	300	0.9	61.5	3670.7	5129	100/500/1000
3.330.1.3.3.0090.0.0300	400	0.9	69.5	4894.2	6755	100/500/1000
3.330.1.3.3.0090.0.0400	500	0.9	79.8	6117.7	8410	100/500/1000
3.330.1.3.3.0090.0.0500	600	0.9	86.9	7341.3	10036	100/500/1000