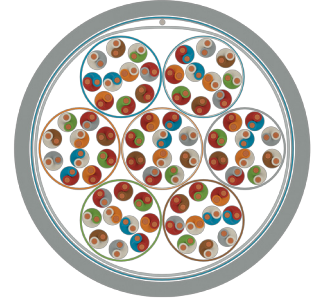
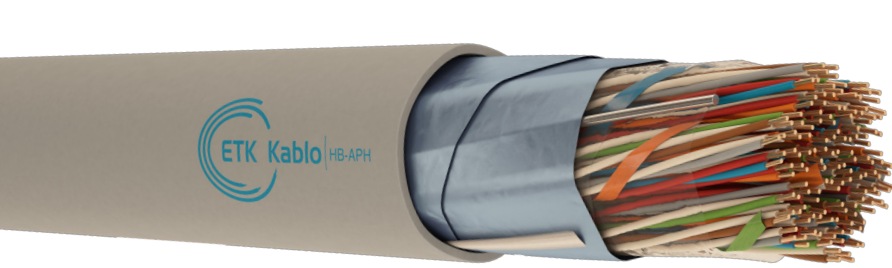


Indoor Telephone Cables

HB-APH

JE-H(S†)H

RoHS REACH 



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 - Screen : Tinned copper earthing wire, Al/PET tape
- 6 - Outer Jacket: UV resistant halogen-free 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, TS IEC 60189-2

HB-APH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.340.1.3.3.0040.0.0001	1	0.4	3.2	4.2	13	100/500/1000
3.340.1.3.3.0040.0.0002	2	0.4	3.9	6.6	19	100/500/1000
3.340.1.3.3.0040.0.0003	3	0.4	4.4	9	24	100/500/1000
3.340.1.3.3.0040.0.0004	4	0.4	5	11.3	29	100/500/1000
3.340.1.3.3.0040.0.0005	5	0.4	5.3	13.7	34	100/500/1000
3.340.1.3.3.0040.0.0006	6	0.4	5.5	16	38	100/500/1000
3.340.1.3.3.0040.0.0007	7	0.4	6	18.4	44	100/500/1000
3.340.1.3.3.0040.0.0008	8	0.4	6.2	20.8	48	100/500/1000
3.340.1.3.3.0040.0.0009	9	0.4	6.5	23.1	53	100/500/1000
3.340.1.3.3.0040.0.0010	10	0.4	6.7	25.5	56	100/500/1000
3.340.1.3.3.0040.0.0012	12	0.4	7.2	30.2	65	100/500/1000
3.340.1.3.3.0040.0.0014	14	0.4	7.6	34.9	73	100/500/1000
3.340.1.3.3.0040.0.0015	15	0.4	7.8	37.3	77	100/500/1000
3.340.1.3.3.0040.0.0016	16	0.4	8	39.6	81	100/500/1000
3.340.1.3.3.0040.0.0020	20	0.4	7.7	49.3	96	100/500/1000
3.340.1.3.3.0040.0.0025	25	0.4	9.5	60.8	116	100/500/1000
3.340.1.3.3.0040.0.0030	30	0.4	11	73	139	100/500/1000
3.340.1.3.3.0040.0.0040	40	0.4	12	96.7	179	100/500/1000
3.340.1.3.3.0040.0.0050	50	0.4	13	120.4	215	100/500/1000
3.340.1.3.3.0040.0.0060	60	0.4	14	144.1	261	100/500/1000
3.340.1.3.3.0040.0.0070	70	0.4	15	167.8	298	100/500/1000
3.340.1.3.3.0040.0.0080	80	0.4	16	191.4	335	100/500/1000
3.340.1.3.3.0040.0.0100	100	0.4	18	243.5	410	100/500/1000
3.340.1.3.3.0040.0.0120	120	0.4	19	291.8	479	100/500/1000
3.340.1.3.3.0040.0.0150	150	0.4	22	364.4	594	100/500/1000
3.340.1.3.3.0040.0.0200	200	0.4	24	485.3	758	100/500/1000
3.340.1.3.3.0040.0.0250	250	0.4	27	606.1	964	100/500/1000
3.340.1.3.3.0040.0.0300	300	0.4	29	727	1135	100/500/1000
3.340.1.3.3.0040.0.0400	400	0.4	33	968.6	1471	100/500/1000
3.340.1.3.3.0040.0.0500	500	0.4	37	968.6	1813	100/500/1000
3.340.1.3.3.0040.0.0600	600	0.4	40	1210.3	2146	100/500/1000

HB-APH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.340.1.3.3.0050.0.0001	1	0.5	2.6	5.6	15	100/500/1000
3.340.1.3.3.0050.0.0002	2	0.5	3.5	9.3	23	100/500/1000
3.340.1.3.3.0050.0.0003	3	0.5	3.6	12.9	30	100/500/1000
3.340.1.3.3.0050.0.0004	4	0.5	3.6	16.7	38	100/500/1000
3.340.1.3.3.0050.0.0005	5	0.5	3.7	20.3	44	100/500/1000
3.340.1.3.3.0050.0.0006	6	0.5	3.7	24	50	100/500/1000
3.340.1.3.3.0050.0.0007	7	0.5	3.7	27.7	56	100/500/1000
3.340.1.3.3.0050.0.0008	8	0.5	3.8	31.4	63	100/500/1000
3.340.1.3.3.0050.0.0009	9	0.5	3.8	35	69	100/500/1000
3.340.1.3.3.0050.0.0010	10	0.5	3.8	38.7	75	100/500/1000
3.340.1.3.3.0050.0.0012	12	0.5	3.9	46.1	87	100/500/1000
3.340.1.3.3.0050.0.0014	14	0.5	3.9	53.5	99	100/500/1000
3.340.1.3.3.0050.0.0015	15	0.5	3.9	57.2	104	100/500/1000
3.340.1.3.3.0050.0.0016	16	0.5	3.9	60.8	110	100/500/1000
3.340.1.3.3.0050.0.0020	20	0.5	3.4	75.9	131	100/500/1000
3.340.1.3.3.0050.0.0025	25	0.5	4	94	160	100/500/1000
3.340.1.3.3.0050.0.0030	30	0.5	3.4	113	192	100/500/1000
3.340.1.3.3.0050.0.0040	40	0.5	3.6	150	249	100/500/1000
3.340.1.3.3.0050.0.0050	50	0.5	3.8	187	308	100/500/1000
3.340.1.3.3.0050.0.0060	60	0.5	3.9	224	364	100/500/1000
3.340.1.3.3.0050.0.0070	70	0.5	4	261.1	418	100/500/1000
3.340.1.3.3.0050.0.0080	80	0.5	4	298.1	471	100/500/1000
3.340.1.3.3.0050.0.0100	100	0.5	4	379.3	582	100/500/1000
3.340.1.3.3.0050.0.0120	120	0.5	4	454.8	683	100/500/1000
3.340.1.3.3.0050.0.0150	150	0.5	4.2	568.3	848	100/500/1000
3.340.1.3.3.0050.0.0200	200	0.5	4.5	757.2	1116	100/500/1000
3.340.1.3.3.0050.0.0250	250	0.5	4.5	946	1369	100/500/1000
3.340.1.3.3.0050.0.0300	300	0.5	4.7	1134.8	1635	100/500/1000
3.340.1.3.3.0050.0.0400	400	0.5	4.7	1512.4	2131	100/500/1000
3.340.1.3.3.0050.0.0500	500	0.5	4.7	1890.1	2635	100/500/1000
3.340.1.3.3.0050.0.0600	600	0.5	4.7	2267.7	3127	100/500/1000

HB-APH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.340.1.3.3.0060.0.0001	1	0.6	4	7.2	20	100/500/1000
3.340.1.3.3.0060.0.0002	2	0.6	5.1	12.5	31	100/500/1000
3.340.1.3.3.0060.0.0003	3	0.6	5.8	17.8	42	100/500/1000
3.340.1.3.3.0060.0.0004	4	0.6	6.8	23.1	52	100/500/1000
3.340.1.3.3.0060.0.0005	5	0.6	7.1	28.5	62	100/500/1000
3.340.1.3.3.0060.0.0006	6	0.6	7.5	33.7	70	100/500/1000
3.340.1.3.3.0060.0.0007	7	0.6	8	39	79	100/500/1000
3.340.1.3.3.0060.0.0008	8	0.6	8.4	44.3	89	100/500/1000
3.340.1.3.3.0060.0.0009	9	0.6	8.8	49.6	98	100/500/1000
3.340.1.3.3.0060.0.0010	10	0.6	9.1	54.9	104	100/500/1000
3.340.1.3.3.0060.0.0012	12	0.6	9.8	65.6	122	100/500/1000
3.340.1.3.3.0060.0.0014	14	0.6	11	76.2	139	100/500/1000
3.340.1.3.3.0060.0.0015	15	0.6	11	81.5	147	100/500/1000
3.340.1.3.3.0060.0.0016	16	0.6	11	86.8	155	100/500/1000
3.340.1.3.3.0060.0.0020	20	0.6	11	108.5	188	100/500/1000
3.340.1.3.3.0060.0.0025	25	0.6	14	134.5	228	100/500/1000
3.340.1.3.3.0060.0.0030	30	0.6	15	161.8	276	100/500/1000
3.340.1.3.3.0060.0.0040	40	0.6	17	215.1	359	100/500/1000
3.340.1.3.3.0060.0.0050	50	0.6	19	268.5	438	100/500/1000
3.340.1.3.3.0060.0.0060	60	0.6	20	321.8	524	100/500/1000
3.340.1.3.3.0060.0.0070	70	0.6	21	375.1	608	100/500/1000
3.340.1.3.3.0060.0.0080	80	0.6	23	428.4	686	100/500/1000
3.340.1.3.3.0060.0.0100	100	0.6	25	545.4	851	100/500/1000
3.340.1.3.3.0060.0.0120	120	0.6	27	654.1	1002	100/500/1000
3.340.1.3.3.0060.0.0150	150	0.6	32	817.6	1239	100/500/1000
3.340.1.3.3.0060.0.0200	200	0.6	35	1089.5	1627	100/500/1000
3.340.1.3.3.0060.0.0250	250	0.6	39	1361.4	2039	100/500/1000
3.340.1.3.3.0060.0.0300	300	0.6	43	1633.3	2416	100/500/1000
3.340.1.3.3.0060.0.0400	400	0.6	48	2177.1	3159	100/500/1000
3.340.1.3.3.0060.0.0500	500	0.6	55	2720.9	3913	100/500/1000
3.340.1.3.3.0060.0.0600	600	0.6	60	3264.7	4651	100/500/1000

HB-APH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.340.1.3.3.0080.0.0001	1	0.8	4.7	11.3	28	100/500/1000
3.340.1.3.3.0080.0.0002	2	0.8	6	20.8	46	100/500/1000
3.340.1.3.3.0080.0.0003	3	0.8	6.9	30.2	62	100/500/1000
3.340.1.3.3.0080.0.0004	4	0.8	8.2	39.6	79	100/500/1000
3.340.1.3.3.0080.0.0005	5	0.8	8.6	49.1	94	100/500/1000
3.340.1.3.3.0080.0.0006	6	0.8	9	58.5	108	100/500/1000
3.340.1.3.3.0080.0.0007	7	0.8	9.7	67.9	123	100/500/1000
3.340.1.3.3.0080.0.0008	8	0.8	11	77.3	139	100/500/1000
3.340.1.3.3.0080.0.0009	9	0.8	11	86.8	153	100/500/1000
3.340.1.3.3.0080.0.0010	10	0.8	12	96.2	163	100/500/1000
3.340.1.3.3.0080.0.0012	12	0.8	12	115.1	189	100/500/1000
3.340.1.3.3.0080.0.0014	14	0.8	13	133.9	220	100/500/1000
3.340.1.3.3.0080.0.0015	15	0.8	14	143.4	233	100/500/1000
3.340.1.3.3.0080.0.0016	16	0.8	14	152.8	247	100/500/1000
3.340.1.3.3.0080.0.0020	20	0.8	14	191.4	305	100/500/1000
3.340.1.3.3.0080.0.0025	25	0.8	17	237.7	371	100/500/1000
3.340.1.3.3.0080.0.0030	30	0.8	19	286.2	468	100/500/1000
3.340.1.3.3.0080.0.0040	40	0.8	21	381	598	100/500/1000
3.340.1.3.3.0080.0.0050	50	0.8	23	475.8	730	100/500/1000
3.340.1.3.3.0080.0.0060	60	0.8	25	570.6	861	100/500/1000
3.340.1.3.3.0080.0.0070	70	0.8	26	665.3	993	100/500/1000
3.340.1.3.3.0080.0.0080	80	0.8	28	760.1	1124	100/500/1000
3.340.1.3.3.0080.0.0100	100	0.8	31	968.2	1408	100/500/1000
3.340.1.3.3.0080.0.0120	120	0.8	34	1161.4	1664	100/500/1000
3.340.1.3.3.0080.0.0150	150	0.8	40	1452	2081	100/500/1000
3.340.1.3.3.0080.0.0200	200	0.8	44	1935.4	2737	100/500/1000
3.340.1.3.3.0080.0.0250	250	0.8	49	2418.8	3378	100/500/1000
3.340.1.3.3.0080.0.0300	300	0.8	53	2902.1	4014	100/500/1000
3.340.1.3.3.0080.0.0400	400	0.8	60	3868.9	5275	100/500/1000
3.340.1.3.3.0080.0.0500	500	0.8	69	4835.6	6549	100/500/1000
3.340.1.3.3.0080.0.0600	600	0.8	75	5802.4	7803	100/500/1000

HB-APH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.340.1.3.3.0090.0.0001	1	0.9	5.2	13.8	34	100/500/1000
3.340.1.3.3.0090.0.0002	2	0.9	6.7	25.8	56	100/500/1000
3.340.1.3.3.0090.0.0003	3	0.9	7.7	37.7	77	100/500/1000
3.340.1.3.3.0090.0.0004	4	0.9	8.9	49.6	98	100/500/1000
3.340.1.3.3.0090.0.0005	5	0.9	9.6	61.9	118	100/500/1000
3.340.1.3.3.0090.0.0006	6	0.9	11	73.9	135	100/500/1000
3.340.1.3.3.0090.0.0007	7	0.9	11	85.5	153	100/500/1000
3.340.1.3.3.0090.0.0008	8	0.9	12	97.4	173	100/500/1000
3.340.1.3.3.0090.0.0009	9	0.9	12	109.3	189	100/500/1000
3.340.1.3.3.0090.0.0010	10	0.9	13	121.3	208	100/500/1000
3.340.1.3.3.0090.0.0012	12	0.9	14	145.1	237	100/500/1000
3.340.1.3.3.0090.0.0014	14	0.9	15	169	278	100/500/1000
3.340.1.3.3.0090.0.0015	15	0.9	15	180.9	296	100/500/1000
3.340.1.3.3.0090.0.0016	16	0.9	16	192.9	313	100/500/1000
3.340.1.3.3.0090.0.0020	20	0.9	16	241.8	394	100/500/1000
3.340.1.3.3.0090.0.0025	25	0.9	19	301.8	481	100/500/1000
3.340.1.3.3.0090.0.0030	30	0.9	22	361.8	582	100/500/1000
3.340.1.3.3.0090.0.0040	40	0.9	24	481.7	746	100/500/1000
3.340.1.3.3.0090.0.0050	50	0.9	26	601.7	926	100/500/1000
3.340.1.3.3.0090.0.0060	60	0.9	29	721.6	1092	100/500/1000
3.340.1.3.3.0090.0.0070	70	0.9	30	841.6	1253	100/500/1000
3.340.1.3.3.0090.0.0080	80	0.9	32	961.5	1426	100/500/1000
3.340.1.3.3.0090.0.0100	100	0.9	36	1224.8	1788	100/500/1000
3.340.1.3.3.0090.0.0120	120	0.9	38	1469.4	2114	100/500/1000
3.340.1.3.3.0090.0.0150	150	0.9	45	1837.2	2623	100/500/1000
3.340.1.3.3.0090.0.0200	200	0.9	50	2449	3454	100/500/1000
3.340.1.3.3.0090.0.0250	250	0.9	56	3060.7	4269	100/500/1000
3.340.1.3.3.0090.0.0300	300	0.9	60	3672.5	5078	100/500/1000
3.340.1.3.3.0090.0.0400	400	0.9	68	4896	6682	100/500/1000
3.340.1.3.3.0090.0.0500	500	0.9	78	6119.6	8303	100/500/1000
3.340.1.3.3.0090.0.0600	600	0.9	85	7343.1	9900	100/500/1000