

## HBH-K



### Areas of Use

These indoor tinned telephone cables are used in the subscriber and switchboard system. These cables have halogen-free and flame retardant insulation and sheath.

### Cable Construction

<b>Conductor</b>	Solid Tinned Copper (IEC/EN 60228)
<b>Insulation</b>	HFFR (EN 50290-2-26)
<b>Core Colors</b>	TSE K 116, IEC 60189-2
<b>Lay-up</b>	Pairs and bundles (each bundle contains of 10 pairs and identified by colored spiral tape)
<b>Drain Core</b>	Insulated Solid Annealed Copper (white color with red ring color)
<b>Separator</b>	PET Foil
<b>Outer Sheath</b>	HFFR (EN 50290-2-27), RAL 7032 - Grey
<b>Reference Standards</b>	TSE K 116, IEC 60189-2

### Technical Properties

<b>Operating Voltage</b>	250 V
<b>Test Voltage</b>	1000 V
<b>Conductor Resistance</b>	$\leq 97.8 \Omega/\text{km}$
<b>Insulation Resistance</b>	$> 100 \text{ M}\Omega \cdot \text{km}$
<b>Mutual Capacitance</b>	$< 120 \text{ nF}/\text{km}$
<b>Capacitance Unbalance (800 Hz)</b>	$\leq 400 \text{ pF}/500\text{m}$
<b>Temperature Range</b>	$-30 \text{ }^\circ\text{C} \dots +70 \text{ }^\circ\text{C}$
<b>Flame Retardancy</b>	IEC/EN 60332-1
<b>Smoke Density</b>	IEC/EN 61034-2
<b>Amount of Halogen Acid Gas</b>	IEC/EN 60754-1
<b>Corrosive Gases Measurement</b>	IEC/EN 60754-2
<b>Min. Bending Radius (Fixed)</b>	8 x Cable Diameter

### Cross Section

Configuration / Cross-Section (mm/mm <sup>2</sup> )	Cable Diameter (mm) ( $\pm 5\%$ )	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x2x0.5+0.5	2.7	6	13
2x2x0.5+0.5	4.2	10	25
3x2x0.5+0.5	4.4	13	31
4x2x0.5+0.5	4.8	17	37
6x2x0.5+0.5	5.7	25	50
10x2x0.5+0.5	7.4	40	81

20x2x0.5+0.5	10.3	78	149
30x2x0.5+0.5	11.8	116	214
50x2x0.5+0.5	14.3	193	331
80x2x0.5+0.5	17.4	307	512
100x2x0.5+0.5	19.8	383	629
150x2x0.5+0.5	24.6	574	942
200x2x0.5+0.5	28.1	765	1268

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