

# HTKSHekw

Halogen-free telecommunication cable



Fire resistant cables



internal application



EN 60332-1



EN 60332-3



halogen-free  
EN 60754



low smoke emission  
EN 61034

## Technical data:

### Thermal parameters:

#### Temperature range:

Fixed installation: -25 °C to 70 °C

Min. installation temp: -5 °C

### Electrical parameters:

Operating voltage: 150 V

#### Test voltage:

AC 1500 V

DC 2250 V

#### Insulation resistance (minimum):

500MΩ\*km

#### Pair loop resistance at 20 °C (maximum):

1,0 mm - 48 Ω/km

#### Mutual capacitance of pair at 1kHz

(maximum): 150 nF/km

### Mechanical parameters:

Min. bending radius: 10 x Ø

## Construction:

#### Cores:

solid copper conductor class 1, acc. to PN-EN 60228

#### Insulation:

halogen-free compound

#### Core colors:

acc. to PN -92/T-90321

#### Core arrangement:

core twisted in pairs, pairs twisted together

#### Wrapping:

polyester tape

#### Screen:

aluminium backed polyester type with tinned copper drain

wire 0,8mm diameter

#### Outer sheath:

halogen-free polymer compound

#### Outer sheath color:

red

## Application:

Halogen-free special cables for interconnecting station equipment, telephone and teletransmission equipment and data transmission devices by means of analogue and digital signals in control and signalling fire protection systems. The cables are used primarily as transmission and power supply lines for line equipment (sensors, linear modules) in supervised lines of fire signalling systems and autonomous fire extinguisher and smoke removal control systems. The cables are incorporated in systems used at the „0“ moment of fire origination (the moment of fire detection by the central detector). The cables can be used for transmitting trigger signals or conditions to auxiliary devices, which are activated by the central fire signalling mechanism upon detection of a fire (e.g. disconnection of a residential ventilation system, downward movement of passenger lifts, switching off of the power supply of building). Static screen protects the cable against interferences of external magnetic fields.

The cables are CPR classification acc. to **EN 50575**.

## Tests:

Flame propagation test for a single insulated cable: EN 60332-1, IEC 60332-1, VDE 0482-332-1

Flame propagation test for vertically-mounted bunched cables: EN 60332-3-24, IEC 60332-3-24, VDE 0482-332-3-24

Test on corrosive gases emitted during burning: EN 602754-2, IEC 602754-2, VDE 0482-754-2

Smoke density emission during burning: EN 61034-2, IEC 61034-2, VDE 0482-1034-2

## Cable characteristics:

- halogen-free
- flame retardant
- no corrosive gases (acidity pH ≥ 4,3; conductivity < 10 µS/mm)
- low smoke emission (light transmittance over 60%)
- low fire load (calorific value)

Cat. no.	n x mm	Approximate outer diameter [mm]	Approximate cable weight [kg/km]
	1x2x1,0	5,8	41

Cable Factory BITNER reserve the right to modify specifications without prior notification  
Note: On customer's request other cross sections or number of cores can be produced