



D_{ca}

APPLICATION

Toxfree[®] ZH H05Z-K & H07Z-K is a flexible cable for fixed and protected installations.

It is highly recommended for use in public places such as: hospitals, schools, museums, airports, bus terminals, shopping malls, offices, laboratories, etc.

Not suitable for wet places or immersed.

- Domestic use.
- Public places.
- Electrical panel wiring.

CONSTRUCTION

Conductor

Electrolytic annealed copper conductor class 5 (flexible) according to EN 60228 and IEC 60228.

Insulation

Halogen free thermosetting flexible rubber insulation, type EI5 according to EN 50363-5.

The standard identification of insulated conductors is the following:

Blue	RAL 5015
Brown	RAL 8003
Black	RAL 9005
Red	RAL 3000
Green/Yellow	RAL 6018/1021
Grey	RAL 7000
White	RAL 9010

Other colours available on request.

CHARACTERISTICS



Electrical performance

Low voltage: 300/500 V. 450/750 V.

Rated Voltage: H05Z-K (up to 1 mm²): 300/500 V.

H07Z-K (from 1,5 mm² onwards): 450/750 V.



Thermal performance

Maximum service temperature: 90°C.

Maximum short-circuit temperature: 250°C (max. 5 s).

Minimum service temperature: -40°C (fixed and protected installations).



Fire performance

Flame non-propagation according to EN 60332-1 / IEC 60332-1.

Reaction to fire CPR: D_{ca}-s1b, d1, a1 according to EN 50575 (see cross-section).

LSHF (Low Smoke Zero Halogen) according to EN 60754-1 / IEC 60754-1.

Low smoke emission according to EN 61034 / IEC 61034:

Light transmittance > 60%.

Low corrosive gases emission according to EN 60754-2 / IEC 60754-2.



Mechanical performance

Minimum bending radius: 5x cable diameter.



Environmental performance

Chemical & Oil resistance: Acceptable.



Installation conditions

In conduit.

STANDARDS / COMPLIANCE



According to
EN 50525-3-41



Standards and approvals
HAR / AENOR / RoHS / CE



CPR (Construction Products Regulation)
D_{ca}-s1b, d1, a1 (according to cross-section)

