



TOP CABLE TOXFREE® ZH ES05Z1-K & H07Z1-K(AS)

B2ca

APPLICATION

Toxfree® ES05Z1-K (AS)/H05Z1-K & H07Z1-K (AS) Type 2 is a LSHF safety cable. In the event of fire, it does not emit toxic gases, nor does it give off corrosive gases, avoiding any possible damage to people or electronic equipment.

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

CONSTRUCTION

Conductor

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

Insulation

Polyolefin, halogen free and low smoke under fire conditions, type TIZI according to UNE 211002 and type T17 according to EN 50363-7.

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
Dark Blue	RAL 5010
White	RAL 9010

Other colours available on request.

CHARACTERISTICS



Electrical performance

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

Rated Voltage: ES05Z1-K/H05Z1-K (up to 1 mm²): 300/500 V.

H07Z1-K (from 1,5 mm² onwards): 450/750 V.



Thermal performance

Maximum conductor temperature: 70°C.

Maximum short-circuit temperature: 160°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.

Fire non-propagation according to EN 60332-3 / IEC 60332-3 and EN 50399.

Reaction to fire CPR: B2ca-s1a, d1, a1 (cable H07Z1-K from 1,5 mm² to 240 mm²) according to EN 50575.

Low smoke halogen free according to EN 60754-1 / IEC 60754-1.

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

Low smoke emission according to EN 61034 / IEC 61034:

Light transmittance > 80%.



Mechanical performance

Minimum bending radius: 5x cable diameter.



Environmental performance

Chemical & Oil resistance: Acceptable.

STANDARDS / COMPLIANCE



According to

EN 50525-3-31 / UNE 211002



Standards and approvals

HAR / AENOR / BUREAU VERITAS / RoHS / SEC / CE



CPR (Construction Products Regulation)

B2ca-s1a, d1, a1 (cable H07Z1-K from 1,5 mm² to 240 mm²)

