



# TOXFREE ZH RC4Z1-K (AS)

Halogen free (LSZH) screened power cable.

IEC 60502-1 / UNE 21123-4

## DESIGN

### 1. Conductor

Electrolytic copper, class 5 (flexible), based on EN 60228 and IEC 60228.

### 2. Insulation

Cross-linked polyethylene (XLPE)

The standard identification of insulated conductors is the following:

1 x	natural
2 x	Blue + Brown
3 G	Blue + Brown + Green/yellow
3 x	Brown+ Black+ Grey
4 G	Brown + Black + Grey + Green/yellow
4 x	Brown + Black + Grey + Blue
5 G	Brown + Black + Grey + Blue + Green/yellow
6 G or more conductors:	Black numbered + Green/yellow.

### 3. Screen

Coverage of 100% composed by aluminium-polyester tape and tinned copper braid.

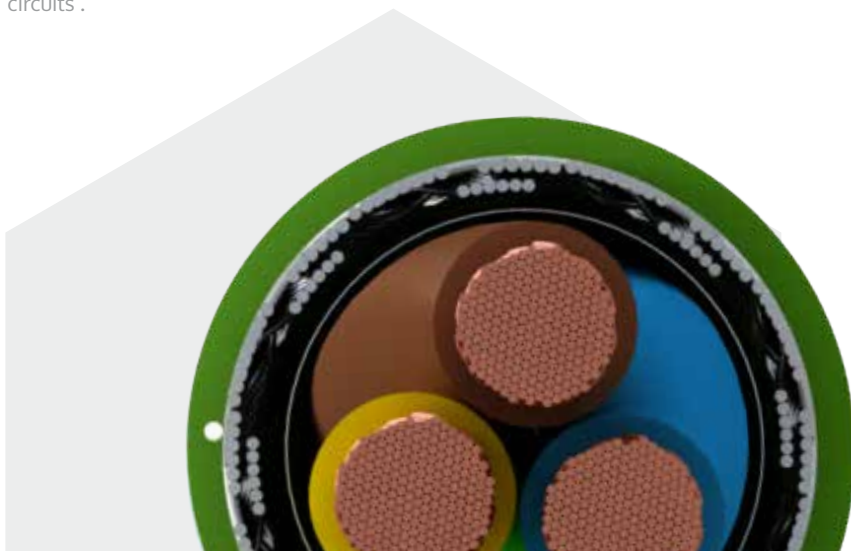
### 4. Outer sheath

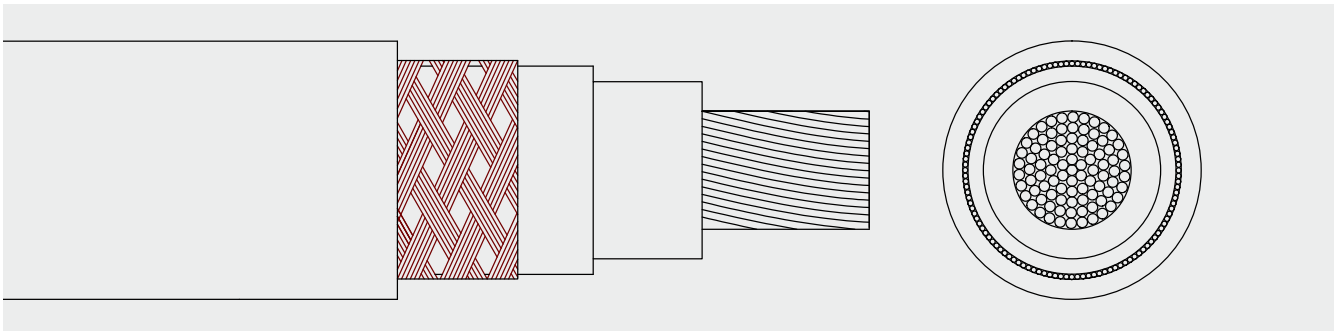
Low Smoke Zero Halogen (LSZH) polyolefin. Green colour, non-toxic and fire retardant. The ripcord allows you to gently tear the outer-sheath allowing you to gently peel it away without damaging the screen.

## APPLICATIONS

Toxfree RC4Z1-K is a screened LSZH safety cable. In case of fire, it does not emit toxic or corrosive gases, thereby protecting public health and avoiding any possible damage to electronic equipment. For this reason, its use is highly recommended for public places and for all installations where it is necessary avoid to electric interference of nearby circuits .

This cable render is an example from this product range and does not necessarily match the selected core size or number of cores.





## CHARACTERISTICS



### Electrical performance

LOW VOLTAGE 0,6/1kV



### Standard

IEC 60502-1 / UNE 21123-4



### Approvals

CE  
RoHS



### 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 based on UNE-EN 60332-1 and IEC 60332-1.  
Fire non-propagation based on UNE-EN 60332-3 and IEC 60332-3.  
LSZH (Low Smoke Zero Halogen) based on UNE-EN 60754-1 and IEC 60754-1.  
Low smoke emission based on UNE-EN 61034 and IEC 61034: Light transmittance > 60%  
Low corrosive gases emission based on UNE-EN 60754-2 and IEC 60754-2.



### Mechanical performance

Minimum bending radius: x5 cable diameter.  
Impact resistance: AG2 Medium severity.



### Chemical performance

Chemical & Oil resistance: Acceptable.  
UV Resistant: UNE 211605.



### Water performance

Water resistance: AD5 Jets.



### Other

Meter by meter marking.  
Ripcord.  
Electric fields resistant



### Installation conditions

Open Air.  
Buried.  
In conduit.



### Applications

Industrial use.

