



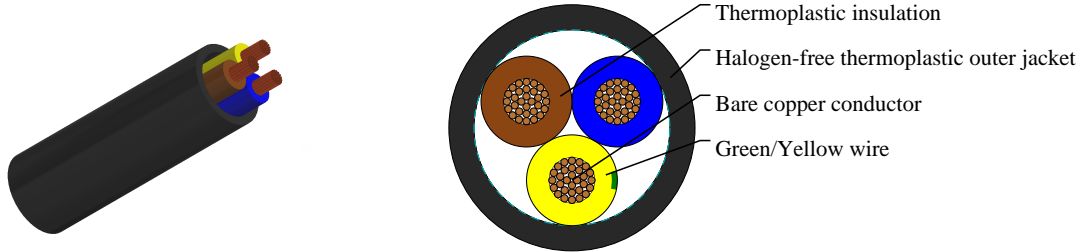
# Caledonian

Industrial Cables (Italian Standard)

[www.caledonian-cables.com](http://www.caledonian-cables.com)

[marketing@caledonian-cables.com](mailto:marketing@caledonian-cables.com)

## H05Z1Z1-F



## APPLICATIONS

These cables may be used when halogen-free, low smoke and corrosive gas properties are required in case of fire. For moderate demands in the house, kitchen and office, for house equipment in damp rooms (for example: washing machines, dryers and refrigerators). Suitable for cooking and heating equipment, providing that the cable is not in contact with hot components or heat radiation. Not suitable for use in high temperature areas (like in lighting equipment), outside buildings, in industrial or agricultural buildings, connection of electrical power tools.

## STANDARDS

CEI 20-20/14

CEI 20-35 (EN60332-1)

CEI 20-37 (EN50267)

EN 50363

## VOLTAGE RATING

300/500V

## CABLE CONSTRUCTION

- Fine bare copper strands
- Strands to DIN VDE 0295 cl. 5, BS 6360 cl. 5, IEC 60228 cl. 5, HD 383
- Thermoplastic T16 core insulation
- Color code VDE-0293-308
- Green-yellow grounding (3 conductors and above)
- Halogen-free thermoplastic TM7 outer jacket
- Black (RAL 9005) or White (RAL 9003)

## COLOUR CODE

Insulation Colour Code

Colour coded to VDE 0293-308

3 cores (G) - Green-Yellow + Brown + Blue

## PHYSICAL AND THERMAL PROPERTIES

- Test voltage: 2500 volts



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- Flexing bending radius:  $7.5 \times \varnothing$
- Fixed bending radius:  $4.0 \times \varnothing$
- Flexing temperature:  $-5^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Fixed temperature:  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$
- Short circuit temperature:  $+160^{\circ}\text{C}$
- Insulation resistance:  $20\text{ M}\Omega \times \text{km}$
- Smoke density acc. to EN 50268 / IEC 61034
- Corrosiveness of combustion gases acc. to EN 50267-2-2, IEC 60754-2
- Flame test: flame-retardant acc. to EN 50265-2-1, IEC 60332.1

## DIMENSION AND PARAMETERS

| No. of Cores<br>× Cross-<br>sectional Area | AWG Size  | Nominal<br>Insulation<br>Thickness | Nominal<br>Sheath<br>Thickness | Approx.<br>Overall<br>Diameter | Nominal<br>Copper Weight | Approx.<br>Weight |
|--|-----------|------------------------------------|--------------------------------|--------------------------------|--------------------------|-------------------|
| No. × mm <sup>2</sup>                      |           | mm                                 | mm                             | mm                             | kg/km                    | kg/km             |
| 3 x 1.5                                    | 16(30/30) | 0.8                                | 0.9                            | 8.1                            | 43                       | 109               |