



Single core single insulated wire  
**ZDS H05Z-K 90°C Eca**

Article number: 185786

02-10-2026

**Description**

0,75 mm<sup>2</sup> Green

**Application:**

Halogen-free installation wire for the internal wiring of devices, switch cabinets, control panels, and similar applications. Also suitable for installation in conduit and trunking systems.

**Characteristics (properties):**

- Halogen-free
- Suitable for continuous conductor temperature of 90°C
- KEMA-KEUR <HAR> (except for yellow and green colours)
- Lloyd's Register (LR) Type Approval
- EN 50525-2-31
- EN 50575



\* This image may differ from the actual product.

**Trading information**

|                |                                                                            |
|----------------|----------------------------------------------------------------------------|
| Product group  | Single core single insulated wire                                          |
| Type           | ZDS H05Z-K 90°C Eca                                                        |
| Net. Weight    | 0,011 kg/m                                                                 |
| Sheath marking | TKF - H05Z-K Eca DoP: DoP0022 [-CE-] 0.75 mm2 KEMA-KEUR [-HAR-]<br>{Batch} |



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### Construction characteristics

|                                    |                         |
|------------------------------------|-------------------------|
| Standardization                    | NEN EN 50525 / EN 50575 |
| Number of cores                    | 1                       |
| Nominal cross section conductor    | 0,75 mm <sup>2</sup>    |
| Conductor material                 | Copper                  |
| Conductor surface                  | Bare                    |
| Shape of conductor                 | Round                   |
| Conductor category                 | Class 5 = flexible      |
| Standardization conductor material | IEC 60228               |
| Material core insulation           | Polyolefin              |
| Core identification                | Colour                  |
| Core colour                        | Green                   |
| Outer diameter approx.             | 2,3 mm                  |

### Properties

|                                                 |                               |
|-------------------------------------------------|-------------------------------|
| Flame retardant                                 | According to IEC/EN 60332-1-2 |
| Flame retardant according to IEC 60332-1-2      | Yes                           |
| Reaction-to-fire according to EN 13501-6: Class | Eca                           |
| Halogen free                                    | IEC 60754-1 / IEC 60754-2     |
| Low smoke                                       | Yes                           |
| Weight                                          | 11 kg/km                      |



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### Technical characteristics

|                                                                              |             |
|------------------------------------------------------------------------------|-------------|
| Min. permitted bending radius, stationary application/permanent installation | 10 mm       |
| Max. permitted conductor temperature                                         | 90 °C       |
| Permitted cable outer temperature after assembling without vibration         | -20 / 90 °C |
| Permitted cable outer temperature during assembling/handling                 | -5 / 55 °C  |

### Electrical characteristics

|                                |           |
|--------------------------------|-----------|
| Nominal voltage U <sub>0</sub> | 300 V     |
| Nominal voltage U              | 500 V     |
| Test voltage                   | 2 kV      |
| Conductor DC resistance @ 20°C | 26 Ohm/km |