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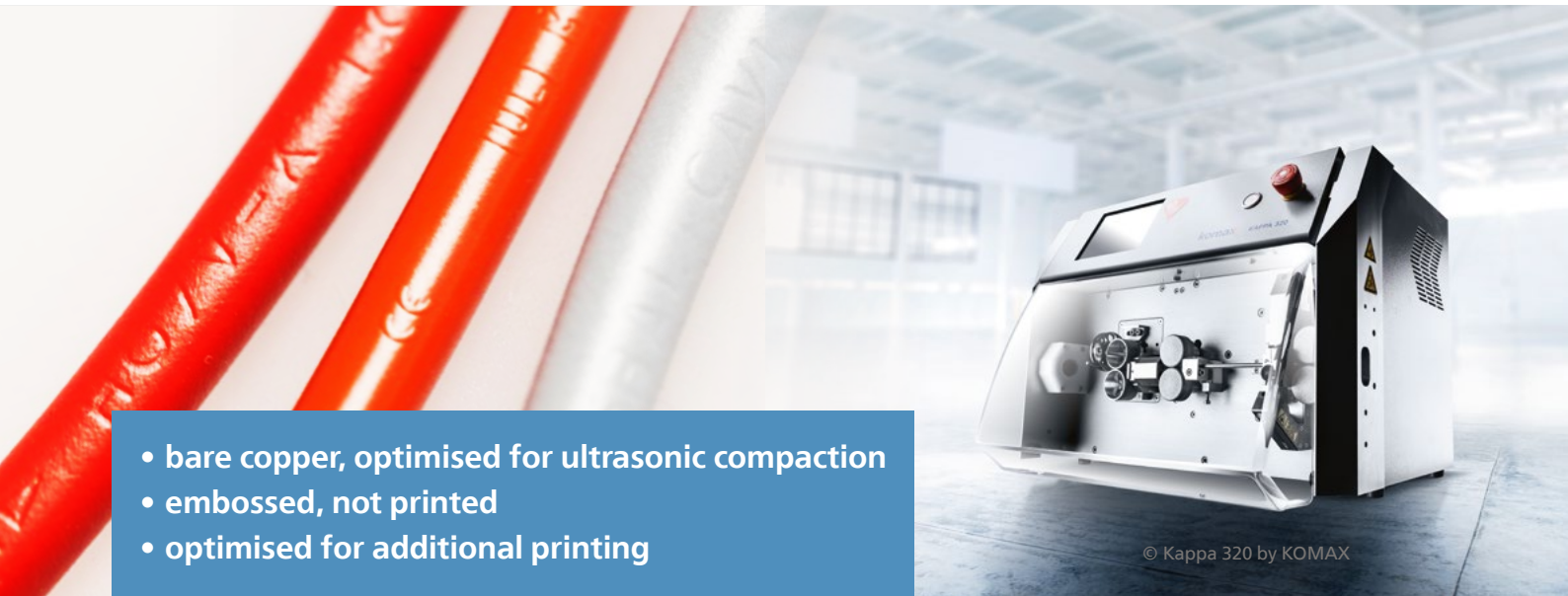
 Cables & Wires

## **Single Core Product Range**

**Special features: bare copper, embossed,  
optimized for ultrasonic compaction**

# SINGLE CORES

Flexible cables for fixed installation or occasional movements



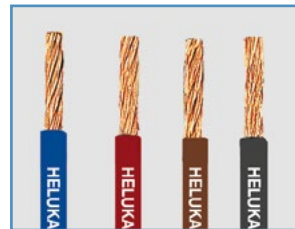
- bare copper, optimised for ultrasonic compaction
- embossed, not printed
- optimised for additional printing

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## FIVENORM



HAR-UL-CSA-AWM-MTW, PVC-Single Cores,  
UL Style 10269 /UL Standard 1063, 600 V, 105°C



Data sheet

### Technical data

- PVC-single cores acc. to  
DIN VDE 0285-525-2-31/  
DIN EN 50525-2-31, UL Std.1063,  
UL Style 10269 and CSA-TEW and  
CSA-AWM I A/B

### Temperature range

- H05V2-K / H07V2-K  
flexing +5°C to +90°C  
fixed installation -40°C to +90°C  
UL (AWM) -40°C to +105°C  
UL (MTW) -40°C to +90°C  
CSA (TEW) -40°C to +105°C

### Nominal voltage

- up to 1 mm<sup>2</sup> H05V2-K U0/U 300/500 V  
from 1,5 mm<sup>2</sup> H07V2-K U0/U 450/750 V  
UL (AWM) 1000 V (AC)  
UL (AWM) 1250 V (DC)  
UL (MTW) 600 V  
CSA (TEW) 600 V

### Test voltage

- H05V2-K = 2000 V  
H07V2-K = 2500 V

### Test voltage (Spark Test)

- 0,5 mm<sup>2</sup> = 5 kV  
≥ 0,75 mm<sup>2</sup> = 6 kV

### Insulation resistance

- min. 20 MOhm x km

### Minimum bending radius

- fixed installation for core Ø:  
≤ 8 mm: 4x core Ø  
8-12 mm: 5x core Ø  
> 12 mm: 6x core Ø

### Cable structure

- finely stranded bare Cu-conductor acc.to DIN VDE 0295 cl.5,  
IEC 60228 cl.5, acc. to UL Std.758
- Core insulation of PVC compound type T13 to  
DIN VDE 0207-363-3/ DIN EN 50363-3  
CSA C22.2 No 210 tab.12 class H and class 43 acc. to UL Std.1581
- Core identification to DIN VDE 0293

### Note

- Tinned conductor on request.
- up to = 1,0 mm<sup>2</sup> = H05V2-K, from 1,5 mm<sup>2</sup> up to 35 mm<sup>2</sup> = H07V2-K.  
Cross-sections up to 35 mm<sup>2</sup> is acc. to DIN VDE 0285-525-2-31.  
Therefore, larger cross-sections H07V-K are equipped with a  
heat-resistant PVC-compound T13.

### Application

Fivefold approved connecting jumper wire used in machine tools and primarily designed for export. The approbation of HAR, UL-AWM, UL-MTW, CSA-AWM, CSA-Equipment-Wire make economical warehousing and simplification of parts lists possible.



Data sheet

## ▶ H05V-K

PVC-Single Cores, finely stranded

### Technical data

- PVC-single cores acc. to  
DIN VDE 0285-525-2-31 /  
DIN EN 50525-2-31 und IEC 60227-3

### Temperature range

- flexing -5°C bis +70°C
- fixed installation -30°C bis +80°C

### Nominal voltage

- $U_0/U$  300/500 V

### Test voltage

- 2000 V

### Insulation resistance

- min. 10 MOhm x km

### Minimum bending radius

- fixed installation 4x core  $\varnothing$

### Radiation resistance

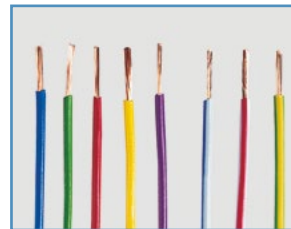
- up to  $80 \times 10^6$  cJ/kg (bis 80 Mrad)

### Cable structure

- finely stranded bare Cu-conductor acc. to DIN VDE 0295 cl.5,  
IEC 60228 cl.5
- Core insulation of PVC compound type T11 to  
DIN VDE 0207-363-3 / DIN EN 50363-3 and IEC 60227-3
- Core identification see data sheet

### Application

These single cores are intended for the internal wiring of devices as well as for the protected installation in and on luminaires, in dry rooms, in production facilities, switch and distribution boards, in pipes, on and under plaster, but only for signal and control circuits.



Data sheet

## ▶ H07V-K / (H)07V-K

PVC-Single Cores, finely stranded

### Technical data

- PVC-single cores acc. to  
DIN VDE 0285-525-2-31 /  
DIN EN 50525-2-31 und IEC 60227-3

### Temperature range

- flexing -5°C bis +70°C
- fixed installation -30°C bis +80°C

### Nominal voltage

- $U_0/U$  450/750 V

### Test voltage

- 2500 V

### Insulation resistance

- min. 10 MOhm x km

### Minimum bending radius

- fixed installation
  - ≤ 8 mm: 4x core  $\varnothing$
  - 8-12 mm: 5x core  $\varnothing$
  - > 12 mm: 6x core  $\varnothing$

### Radiation resistance

- up to  $80 \times 10^6$  cJ/kg (bis 80 Mrad)

### Cable structure

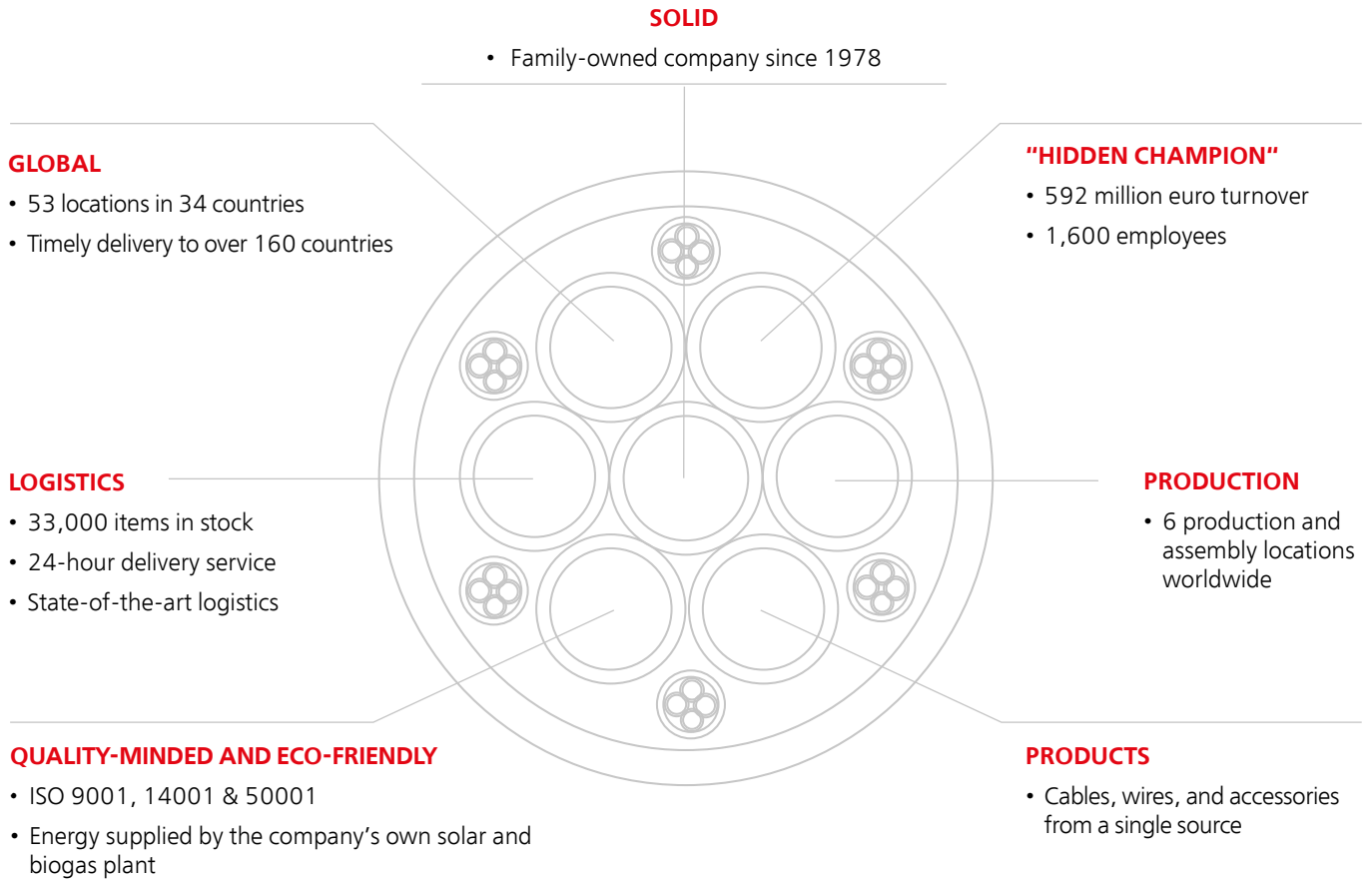
- finely stranded bare Cu-conductor acc. to DIN VDE 0295 cl.5,  
IEC 60228 cl.5
- Core insulation of PVC compound type T11 to  
DIN VDE 0207-363-3 / DIN EN 50363-3 and IEC 60227-3
- Core identification: see data sheet

### Application

These single cores are suitable for laying in pipes on and under plaster, as well as in closed installation conduits. They may not be used for direct installation on flatbeds, channels or tanks. Approved for internal wiring of equipment, distribution and switchboards, and for protected installation in and on luminaires with a nominal voltage up to 1000 V alternating current or a direct current up to 750 V against ground.



## ■ WHAT SETS US APART



## ■ CONTACTS



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