Cables & Wires

**Single Core Product Range**

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

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

### Technical data
- PVC-single cores acc. to DIN VDE 0285-525-2-31/ DIN EN 50525-2-31, 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 mm² H05V2-K U0/U 300/500 V
  - from 1,5 mm² 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 mm² = 5 kV
  - ≥ 0,75 mm² = 6 kV
- Insulation resistance
  - min. 20 MΩhm 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 TI3 to DIN VDE 0207-363-3/ DIN EN 50363-3
- Core identification to DIN VDE 0293

### Note
- Tinned conductor on request.
- up to = 1,0 mm² = H05V2-K, from 1,5 mm² up to 35 mm² = H07V2-K. Cross-sections up to 35 mm² is acc. to DIN VDE 0285-525-2-31. Therefore, larger cross-sections H07V-K are equipped with a heat-resistant PVC-compound TI3.

### 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.
### 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**
- U₀/U 300/500 V

**Test voltage**
- 2000 V

**Insulation resistance**
- min. 10 MOhm x km

**Minimum bending radius**
- fixed installation: 4x core Ø

**Radiation resistance**
- up to 80x10⁶ 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.

---

### 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**
- U₀/U 450/750 V

**Test voltage**
- 2500 V

**Insulation resistance**
- min. 10 MOhm x km

**Minimum bending radius**
- fixed installation
  - ≤ 8 mm: 4x core Ø
  - 8-12 mm: 5x core Ø
  - > 12 mm: 6x core Ø

**Radiation resistance**
- up to 80x10⁶ 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

SOLID
• Family-owned company since 1978

GLOBAL
• 53 locations in 34 countries
• Timely delivery to over 160 countries

LOGISTICS
• 33,000 items in stock
• 24-hour delivery service
• State-of-the-art logistics

“HIDDEN CHAMPION”
• 592 million euro turnover
• 1,600 employees

PRODUCTION
• 6 production and assembly locations worldwide

QUALITY-MINDED AND ECO-FRIENDLY
• ISO 9001, 14001 & 50001
• Energy supplied by the company’s own solar and biogas plant

PRODUCTS
• Cables, wires, and accessories from a single source

CONTACTS

Want to design your own cable from our product assortment?
No problem with our product finder: www.helukabel.com/productfinder

Have questions about our products?
Your contact at HELUKABEL:
PH: +49 7150 9209-0
FX: +49 7150 81786
info@helukabel.de

International Locations
Austria · Belgium · Brazil · Bulgaria · Canada · China · Czech Republic · Denmark · France · Finland · Germany · India · Indonesia · Italy · Malaysia · Mexico · Netherlands · Peru · Poland · Portugal · Romania · Russia · Singapore · South Africa · South Korea · Spain · Sweden · Switzerland · Thailand · Turkey · United Arab Emirates · UK · USA · Vietnam

Order a catalogue online at: www.helukabel.com/publicationorder