

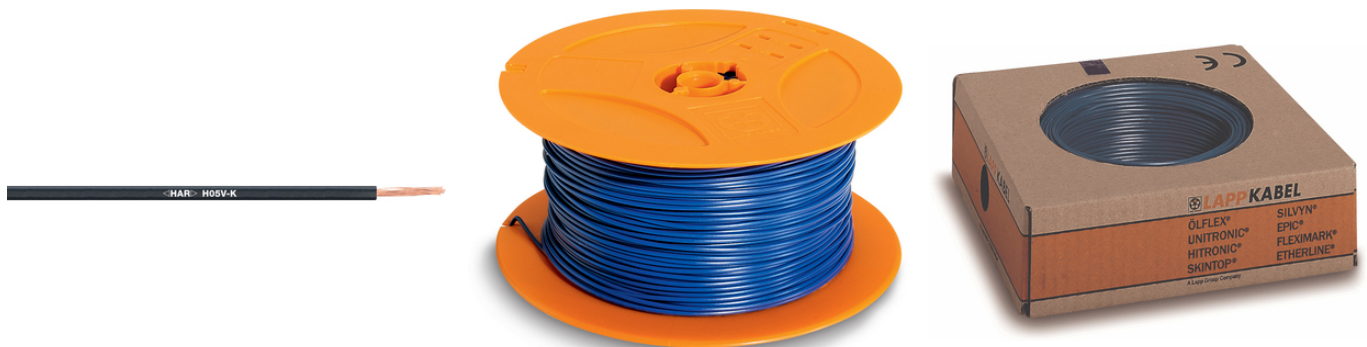
## H05V-K <HAR>

European <HAR> cable type certification

H05V-K, HAR, power and control cable, PVC, 300/500V, wiring of devices and control cabinets, flame-retardant, class 5/fine wire, fixed installation, ring/spool

### Info

CPR: Article number choice under [www.lappkabel.com/cpr](http://www.lappkabel.com/cpr)  
<HAR>



### Benefits

Cables' <HAR> marking also stands for the international endorsement of national certification institutes' testing marks and certificates, e. g. <VDE><HAR>. The <HAR> marking is of special importance in case of goods traffic between European countries.

### Application range

Internal wiring of devices  
Protected installation in and on lighting equipments  
Signal systems in and on plaster in tubes

### Product features

Flame-retardant according IEC 60332-1-2  
Spool: d1 = 18 mm; d2 = 200 mm; b = 85 mm

### Norm references / Approvals

No cable type certified core insulation colour according to EN 50525-1/VDE 0285-525-1: transparent  
<HAR> cable type certification acc. EN 50525-2-31

### Product Make-up

Fine-wired copper conductor of bare copper strands in line with conductor class 5 acc. IEC 60228  
Core insulation: Based on PVC

### Technical Data

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## H05V-K <HAR>

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| Classification ETIM 5:  | ETIM 5.0 Class-ID: EC000993<br>ETIM 5.0 Class-Description: Single core cable                   |
| Classification ETIM 6:  | ETIM 6.0 Class-ID: EC000993<br>ETIM 6.0 Class-Description: Single core cable                   |
| Conductor stranding:    | Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5                                     |
| Minimum bending radius: | According to EN 50565-1<br>4 x outer diameter (OD) for normal use; 2 x OD for cautious bending |
| Nominal voltage:        | U0/U: 300/500 V                                                                                |
| Test voltage:           | 2000 V                                                                                         |
| Current rating:         | VDE 0298 Part 4<br>EN 50565-1/ VDE 0298-565-1                                                  |
| Temperature range:      | Fixed installation: -40 °C to +70 °C                                                           |

### Note

Unless specified otherwise, the shown product values are nominal values. Detailed values (e.g. tolerances) are available upon request.

Copper price basis: EUR 150/100 kg. Refer to catalogue appendix T17 for the definition and calculation of copper-related surcharges.

\* Trade product, no Lapp product

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

Prices are net prices without VAT and surcharges. Sale to business customers only.

## H05V-K &lt;HAR&gt;

| Article number | Core colour       | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter [mm] | m/ring | m/spool | Copper index (kg/km) | Weight (kg/km) |
|----------------|-------------------|--------------------------------------------|---------------------|--------|---------|----------------------|----------------|
| 4510001        | green/yellow      | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510011        | black             | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510021        | blue              | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510141        | dark blue         | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510031        | brown             | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510111        | yellow            | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510121        | green             | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510071        | violet            | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510081        | pink              | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510091        | orange            | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510041        | red               | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510051        | white             | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510061        | grey              | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510161        | ultra-marine blue | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510921        | Dark blue/white   | 0.5                                        | 2.1 - 2.5           | 100    | -       | 4.8                  | 9              |
| 4510002        | green/yellow      | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510012        | black             | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510022        | blue              | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510142        | dark blue         | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510032        | brown             | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510112        | yellow            | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510122        | green             | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510072        | violet            | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510082        | pink              | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510092        | orange            | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510042        | red               | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510052        | white             | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510062        | grey              | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510922        | Dark blue/white   | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510162        | ultra-marine blue | 0.75                                       | 2.2 - 2.7           | 100    | -       | 7.2                  | 12             |
| 4510003        | green/yellow      | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510013        | black             | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510023        | blue              | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510143        | dark blue         | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
|                |                   |                                            |                     |        |         |                      |                |

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## H05V-K &lt;HAR&gt;

| Article number | Core colour       | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter [mm] | m/ring | m/spool | Copper index (kg/km) | Weight (kg/km) |
|----------------|-------------------|--------------------------------------------|---------------------|--------|---------|----------------------|----------------|
| 4510033        | brown             | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510113        | yellow            | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510123        | green             | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510073        | violet            | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510083        | pink              | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510093        | orange            | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510043        | red               | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510053        | white             | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510063        | grey              | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510163        | ultra-marine blue | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510923        | Dark blue/white   | 1                                          | 2.4 - 2.8           | 100    | -       | 9.6                  | 15             |
| 4510001S       | green/yellow      | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510011S       | black             | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510021S       | blue              | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510141S       | dark blue         | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510031S       | brown             | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510111S       | yellow            | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510121S       | green             | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510071S       | violet            | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510081S       | pink              | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510091S       | orange            | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510101S       | transparent       | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510041S       | red               | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510051S       | white             | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510061S       | grey              | 0.5                                        | 2.1 - 2.5           | -      | 250     | 4.8                  | 9              |
| 4510002S       | green/yellow      | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510012S       | black             | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510022S       | blue              | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510142S       | dark blue         | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510032S       | brown             | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510112S       | yellow            | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510122S       | green             | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510072S       | violet            | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510082S       | pink              | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
|                |                   |                                            |                     |        |         |                      |                |

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| Article number | Core colour       | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter [mm] | m/ring | m/spool | Copper index (kg/km) | Weight (kg/km) |
|----------------|-------------------|--------------------------------------------|---------------------|--------|---------|----------------------|----------------|
| 4510092S       | orange            | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510102S       | transparent       | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510042S       | red               | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510052S       | white             | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510062S       | grey              | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510162S       | ultra-marine blue | 0.75                                       | 2.2 - 2.7           | -      | 250     | 7.2                  | 12             |
| 4510003S       | green/yellow      | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510013S       | black             | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510023S       | blue              | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510143S       | dark blue         | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510033S       | brown             | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510113S       | yellow            | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510123S       | green             | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510073S       | violet            | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510083S       | pink              | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510093S       | orange            | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510103S       | transparent       | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510043S       | red               | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510053S       | white             | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510063S       | grey              | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| 4510163S       | ultra-marine blue | 1                                          | 2.4 - 2.8           | -      | 250     | 9.6                  | 15             |
| Maxi ring      |                   |                                            |                     |        |         |                      |                |
| 4510011X       | black             | 0.5                                        | 2.1 - 2.5           | 600    | -       | 4.8                  | 9              |
| 4510021X       | blue              | 0.5                                        | 2.1 - 2.5           | 600    | -       | 4.8                  | 9              |
| 4510141X       | dark blue         | 0.5                                        | 2.1 - 2.5           | 600    | -       | 4.8                  | 9              |
| 4510061X       | grey              | 0.5                                        | 2.1 - 2.5           | 600    | -       | 4.8                  | 9              |
| 4510041X       | red               | 0.5                                        | 2.1 - 2.5           | 600    | -       | 4.8                  | 9              |
| 4510051X       | white             | 0.5                                        | 2.1 - 2.5           | 600    | -       | 4.8                  | 9              |
| 4510012X       | black             | 0.75                                       | 2.2 - 2.7           | 500    | -       | 9.6                  | 13             |
| 4510022X       | blue              | 0.75                                       | 2.2 - 2.7           | 500    | -       | 7.2                  | 13             |
| 4510142X       | dark blue         | 0.75                                       | 2.2 - 2.7           | 500    | -       | 7.2                  | 13             |
| 4510002X       | green/yellow      | 0.75                                       | 2.2 - 2.7           | 500    | -       | 7.2                  | 13             |
| 4510062X       | grey              | 0.75                                       | 2.2 - 2.7           | 500    | -       | 7.2                  | 13             |
| 4510092X       | orange            | 0.75                                       | 2.2 - 2.7           | 500    | -       | 7.2                  | 13             |
|                |                   |                                            |                     |        |         |                      |                |

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| Article number | Core colour  | Conductor cross-section (mm <sup>2</sup> ) | Outer diameter [mm] | m/ring | m/spool | Copper index (kg/km) | Weight (kg/km) |
|----------------|--------------|--------------------------------------------|---------------------|--------|---------|----------------------|----------------|
| 4510042X       | red          | 0.75                                       | 2.2 - 2.7           | 500    | -       | 7.2                  | 13             |
| 4510072X       | violet       | 0.75                                       | 2.2 - 2.7           | 500    | -       | 7.2                  | 13             |
| 4510052X       | white        | 0.75                                       | 2.2 - 2.7           | 500    | -       | 7.2                  | 13             |
| 4510013X       | black        | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |
| 4510033X       | brown        | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |
| 4510023X       | blue         | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |
| 4510143X       | dark blue    | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |
| 4510003X       | green/yellow | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |
| 4510063X       | grey         | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |
| 4510093X       | orange       | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |
| 4510043X       | red          | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |
| 4510053X       | white        | 1.0                                        | 2.4 - 2.8           | 400    | -       | 9.6                  | 15             |

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