

# <HAR> hook-up wire

## Type H05V-K & H07V-K



This hook-up wire is <HAR> approved and conforms to European standards. It can be used to wire electronic and electrical equipment for export to Europe.

### Recommended applications

Panel & machine wiring for export usage; electronic & medical equipment; wire bundling; MRO replacement or European equipment and machinery

### Approvals



### Construction

**Conductors:** finely stranded bare copper  
**Insulation:** PVC

### Application advantage

- 14 standard color options
- <HAR> approval
- Large AWG range: 22 AWG to 480 KCMIL
- Flexible stranding vs. solid core and 7-strand
- Embossed cable marking available upon request

| Cable attributes |       | page 648 |       |
|------------------|-------|----------|-------|
| OIL              | OR-02 | FLAME    | FR-02 |
| MOTION           | FL-02 | MECH.    | MP-01 |

### Technical data

**Temperature range:**  
 - for stationary use: -30°C to +80°C

**Nominal voltage:**  
 - H05V-K: 300/500V  
 - H07V-K: 450/750V

**Test voltage:**  
 - H05V-K: 2000V  
 - H07V-K: 2500V

**Conductor stranding:** Class 5 fine wire

**Color code:**

|                  |                  |
|------------------|------------------|
| 00: green/yellow | 07: violet       |
| 01: black        | 08: pink         |
| 02: blue         | 09: orange       |
| 03: brown        | 10: transparent* |
| 04: red          | 11: yellow*      |
| 05: white        | 12: green*       |
| 06: gray         | 14: dark blue    |

\* No <HAR> for transparent, yellow, or green wires ≥ 16 AWG

**Approvals:** <HAR> H05V-K & H07V-K  
 CE & RoHS

| Part number                         | Standard | Outer diameter |           | Copper weight lbs/mft | Approx. weight lbs/mft |
|-------------------------------------|----------|----------------|-----------|-----------------------|------------------------|
|                                     |          | in             | mm        |                       |                        |
| <b>H05V-K</b>                       |          |                |           |                       |                        |
| <b>22 AWG (0.5 mm<sup>2</sup>)</b>  |          |                |           |                       |                        |
| 4510..1                             | H05V-K   | 0.083 - 0.099  | 2.1 - 2.5 | 3                     | 6                      |
| <b>20 AWG (0.75 mm<sup>2</sup>)</b> |          |                |           |                       |                        |
| 4510..2                             | H05V-K   | 0.087 - 0.106  | 2.2 - 2.7 | 5                     | 8                      |
| <b>18 AWG (1 mm<sup>2</sup>)</b>    |          |                |           |                       |                        |
| 4510..3                             | H05V-K   | 0.095 - 0.110  | 2.4 - 2.8 | 6                     | 10                     |
| <b>H07V-K</b>                       |          |                |           |                       |                        |
| <b>16 AWG (1.5 mm<sup>2</sup>)</b>  |          |                |           |                       |                        |
| 4520..1                             | H07V-K   | 0.110 - 0.134  | 2.8 - 3.4 | 10                    | 15                     |
| <b>14 AWG (2.5 mm<sup>2</sup>)</b>  |          |                |           |                       |                        |
| 4520..2                             | H07V-K   | 0.134 - 0.161  | 3.4 - 4.1 | 16                    | 25                     |
| <b>12 AWG (4 mm<sup>2</sup>)</b>    |          |                |           |                       |                        |
| 4520..3                             | H07V-K   | 0.154 - 0.189  | 3.9 - 4.8 | 26                    | 30                     |
| <b>10 AWG (6 mm<sup>2</sup>)</b>    |          |                |           |                       |                        |
| 4520..4                             | H07V-K   | 0.173 - 0.209  | 4.4 - 5.3 | 39                    | 48                     |
| <b>8 AWG (10 mm<sup>2</sup>)</b>    |          |                |           |                       |                        |
| 4520..5                             | H07V-K   | 0.224 - 0.268  | 5.7 - 6.8 | 65                    | 81                     |
| <b>6 AWG (16 mm<sup>2</sup>)</b>    |          |                |           |                       |                        |
| 4520..6                             | H07V-K   | 0.264 - 0.319  | 6.7 - 8.1 | 103                   | 126                    |

| Part number                           | Standard | Outer diameter |             | Copper weight lbs/mft | Approx. weight lbs/mft |
|---------------------------------------|----------|----------------|-------------|-----------------------|------------------------|
|                                       |          | in             | mm          |                       |                        |
| <b>4 AWG (25 mm<sup>2</sup>)</b>      |          |                |             |                       |                        |
| 4521..1                               | H07V-K   | 0.331 - 0.402  | 8.4 - 10.2  | 161                   | 195                    |
| <b>2 AWG (35 mm<sup>2</sup>)</b>      |          |                |             |                       |                        |
| 4521..2                               | H07V-K   | 0.382 - 0.461  | 9.7 - 11.7  | 226                   | 268                    |
| <b>1 AWG (50 mm<sup>2</sup>)</b>      |          |                |             |                       |                        |
| 4521..3                               | H07V-K   | 0.453 - 0.547  | 11.5 - 13.9 | 323                   | 376                    |
| <b>2/0 AWG (70 mm<sup>2</sup>)</b>    |          |                |             |                       |                        |
| 4521..4                               | H07V-K   | 0.520 - 0.630  | 13.2 - 16.0 | 452                   | 521                    |
| <b>3/0 AWG (95 mm<sup>2</sup>)</b>    |          |                |             |                       |                        |
| 4521..5                               | H07V-K   | 0.594 - 0.717  | 15.1 - 18.2 | 613                   | 693                    |
| <b>4/0 AWG (120 mm<sup>2</sup>)</b>   |          |                |             |                       |                        |
| 4521..6                               | H07V-K   | 0.657 - 0.795  | 16.7 - 20.2 | 774                   | 864                    |
| <b>300 KCMIL (150 mm<sup>2</sup>)</b> |          |                |             |                       |                        |
| 4521..7                               | H07V-K   | 0.732 - 0.886  | 18.6 - 22.5 | 968                   | 1050                   |
| <b>370 KCMIL (185 mm<sup>2</sup>)</b> |          |                |             |                       |                        |
| 4521..8                               | H07V-K   | 0.811 - 0.980  | 20.6 - 24.9 | 1193                  | 1287                   |
| <b>480 KCMIL (240 mm<sup>2</sup>)</b> |          |                |             |                       |                        |
| 4521..9                               | H07V-K   | 0.925 - 1.118  | 23.5 - 28.4 | 1548                  | 1714                   |

For LAPP part number, add the double digit color code (see above) to the part number prefix in the table; e.g.: 16 AWG H07V-K green/yellow = 452000

If not otherwise specified, all values relating to the product are nominal values. Photographs are not to scale and are not true representations of the products in question.