

Multi-standard <HAR> hook-up wire

H05V-K: UL AWM Style 1007 & 1569, UL/CSA • H07V-K: UL AWM Style 1015, UL MTW 1063, CSA



This internationally approved hook-up wire was designed to meet North American and European market requirements. It passes <HAR> H05V-K, <HAR> H07V-K, UL AWM, UL MTW (16 AWG & larger), CSA TEW & CE.

Recommended applications

Panel and machine wiring for domestic and export usage; internal wiring of devices, electrical, and medical equipment

Approvals



Construction

Conductors: finely stranded tinned copper

Insulation: PVC

Application advantage

- Only one inventory vs. two for domestic and export consumption
- 13 standard color options
- UL MTW (16 AWG & larger)
- Available in large cardboard barrels for easy pull (16 AWG & larger)
- 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:

- <HAR>/IEC: -40°C to +70°C
- UL/CSA: -40°C to +105°C

Nominal voltage:

- H05V-K:
 - <HAR>/IEC: 300/500V
 - UL/CSA: 300V
- H07V-K:
 - <HAR>/IEC: 450/750V
 - UL/CSA: 600V

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: yellow* |
| 04: red | 11: green* |
| 05: white | 14: dark blue |
| 06: gray | |

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

Approvals:

- H05V-K:
 - UL: AWM 1007 & 1569
 - Canada: CSA AWM I A/B
 - Additional: <HAR> H05V-K, CE & RoHS
- H07V-K:
 - UL: MTW per UL 1063, AWM 1015
 - Canada: TEW
 - Additional: <HAR> H07V-K, CE & RoHS

| Part number | Standard | Maximum outer diameter | | Copper weight lbs/mft | Approx. weight lbs/mft |
|-------------------------------------|----------|------------------------|-----|-----------------------|------------------------|
| | | in | mm | | |
| H05V-K | | | | | |
| 22 AWG (0.5 mm²) | | | | | |
| 41804.. | H05V-K | 0.098 | 2.5 | 3 | 6 |
| 20 AWG (0.75 mm²) | | | | | |
| 41805.. | H05V-K | 0.102 | 2.6 | 5 | 8 |
| 18 AWG (1 mm²) | | | | | |
| 41806.. | H05V-K | 0.110 | 2.8 | 6 | 10 |
| H07V-K | | | | | |
| 16 AWG (1.5 mm²) | | | | | |
| 41604.. | H07V-K | 0.134 | 3.4 | 10 | 15 |
| 14 AWG (2.5 mm²) | | | | | |
| 41605.. | H07V-K | 0.157 | 4.0 | 16 | 25 |
| 12 AWG (4 mm²) | | | | | |
| 41606.. | H07V-K | 0.181 | 4.6 | 26 | 30 |
| 10 AWG (6 mm²) | | | | | |
| 41607.. | H07V-K | 0.201 | 5.1 | 39 | 48 |

| Part number | Standard | Maximum outer diameter | | Copper weight lbs/mft | Approx. weight lbs/mft |
|-------------------------------------|----------|------------------------|------|-----------------------|------------------------|
| | | in | mm | | |
| 8 AWG (10 mm²) | | | | | |
| 41608.. | H07V-K | 0.268 | 6.8 | 65 | 81 |
| 6 AWG (16 mm²) | | | | | |
| 41609..* | H07V-K | 0.354 | 9.0 | 103 | 126 |
| 4 AWG (25 mm²) | | | | | |
| 41610.. | H07V-K | 0.402 | 10.2 | 161 | 195 |
| 2 AWG (35 mm²) | | | | | |
| 41611.. | H07V-K | 0.461 | 11.7 | 226 | 268 |
| 1 AWG (50 mm²) | | | | | |
| 41612.. | H07V-K | 0.547 | 13.9 | 323 | 376 |
| 2/0 AWG (70 mm²) | | | | | |
| 41613.. | H07V-K | 0.630 | 16.0 | 452 | 521 |
| 3/0 AWG (95 mm²) | | | | | |
| 41614.. | H07V-K | 0.717 | 18.2 | 613 | 693 |
| 4/0 AWG (120 mm²) | | | | | |
| 41615.. | H07V-K | 0.780 | 19.8 | 774 | 864 |

* No <HAR> approval available for 6 AWG (X07V-K)

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 = 4160400

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.