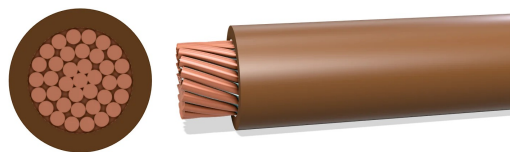


Application

H07V2-K, also known as Tri-Rated cable, is a flexible, single-core, 90 °C PVC-insulated wire with a class 5 plain copper conductor. Its combined approval to the European (EN 50525-2-31 / BS 6231), American (UL 1015) and Canadian (CSA C22.2) standards makes it suitable for internal panel and control-cabinet wiring, switchgear and general-purpose interconnection where a higher temperature rating than standard H07V-K is required.



CONSTRUCTION

Conductor	Copper, bare, class 5 (fine stranded / flexible), IEC 60228.
Insulation	PVC, high-temperature type (90 °C).
Screen / armour	None (unscreened).
Core colours	Available in a wide range of core colours, incl. green/yellow.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	450/750 V (H07V2-K).
Test voltage	2.5 kV.
Standard	EN 50525-2-31 · BS 6231 · UL 1015 · CSA C22.2.
Flame-retardant	IEC/EN 60332-1-2.
Reaction to fire (CPR)	Eca (EN 50575).
Conductor standard	IEC/EN 60228, class 5.
Max. conductor temperature	90 °C (EN/BS); 105 °C (UL/CSA).
Min. service temperature	-40 °C (fixed installation).
Min. bending radius, fixed	4 x outer diameter.

DIMENSIONS & TECHNICAL DATA

Size (mm ²)	Stranding (n/mm)	Max. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
0.5	16/0.20	39.0	2.5	10
0.75	24/0.20	26.0	2.7	13
1	32/0.20	19.5	2.8	15
1.5	30/0.25	13.3	3	20
2.5	50/0.25	7.98	3.5	30
4	56/0.30	4.95	4	45
6	84/0.30	3.3	4.6	65
10	80/0.40	1.91	6.4	115
16	126/0.40	1.21	8.1	180
25	196/0.40	0.78	9.5	265
35	276/0.40	0.554	10.6	355
50	396/0.40	0.386	13.1	505
70	360/0.50	0.272	14.8	685
95	475/0.50	0.206	16.6	890
120	608/0.50	0.161	17.8	1115
150	756/0.50	0.129	20.2	1400
185	925/0.50	0.106	21.9	1675
240	1221/0.50	0.0801	24.3	2180
300	1525/0.50	0.0641	27.7	2790
400	2107/0.50	0.0486	31.6	3650

Nominal O.D., stranding and weight are nominal manufacturer values; conductor resistance is the maximum per IEC/EN 60228, class 5. Values are indicative and non-binding.