

# Single Core PVC Insulated Wires



▶ **APPLICATION**

These cables are intended for drawing into trunking and conduit and are suitable for use in electrical installations such as power, lighting, appliances and switchgear wiring.

▶ **HARMONISED CODE**

- 0.75mm<sup>2</sup> & 1.0mm<sup>2</sup> solid conductor wire H05V-U / H05V2-U
- 1.5mm<sup>2</sup> & 2.5mm<sup>2</sup> solid conductor wire H07V-U / H07V2-U
- 1.5mm<sup>2</sup> to 120mm<sup>2</sup> stranded conductor wire H07V-R / H07V2-R



▶ **CONSTRUCTION**

- Reference : **BSEN: 50525-2-31**
- Conductor : **Solid / stranded plain copper class 1 or 2 to BS6360/IEC60228-1/BSEN:60228**
- Insulation : **PVC Type TI 1 to BSEN:50363-3 / \*PVC Type TI 3 HR to BSEN:50363-3**

▶ **STANDARD COLOURS**

- Colour : Red, Yellow, Blue, Black, Green, Yellow/Green, Brown, Grey
- Other colours available on request

▶ **PACKAGING**

- Sizes 0.75mm<sup>2</sup> to 35mm<sup>2</sup> in reels/coils of 100yards and 100m
- All sizes can be supplied in non-returnable wooden reels of 500m and 1000m
- Customised lengths available on request

▶ **TECHNICAL DATA**

- Max. Operating Temperature : **70C / 90C / 105C**
- Rated Voltage : **450/750V (300/500V for 0.75mm<sup>2</sup> & 1.0mm<sup>2</sup>)**
- Standards : **BSEN:50525-2-31/H07V-V/R/K**

Nominal Cross-Sectional Area (mm <sup>2</sup> )	Conductor			Radial Thickness of Insulation (mm)	Approx. Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Approx. Current Carrying Capacity (A)
	Number of Strands	Diameter of Strand (mm)	Max. Resistance at 20°C (Ω/km)				
0.75	1	0.98	24.50	0.6	2.40	11	10
1.00	1	1.13	18.10	0.6	2.60	14	12
1.50	1	1.38	12.10	0.7	3.20	21	16
1.50	7	0.53	12.10	0.7	3.30	22	16
2.50	1	1.78	7.410	0.8	3.90	32	21
2.50	7	0.67	7.410	0.8	4.00	35	21
4.00	7	0.85	4.610	0.8	4.60	50	28
6.00	7	1.04	3.080	0.8	5.20	71	36
10.0	7	1.35	1.830	1.0	6.70	120	50
16.0	7	1.70	1.150	1.0	7.80	180	68
25.0	7	2.14	0.727	1.2	9.70	280	89
35.0	7	2.52	0.524	1.2	10.90	380	110
50.0	19	1.83	0.387	1.4	12.80	510	134
70.0	19	2.17	0.268	1.4	14.60	710	171
95.0	19	2.52	0.193	1.6	17.10	970	207
120.0	37	2.04	0.153	1.6	18.80	1200	239
150.0	37	2.25	0.124	1.8	20.90	1480	262
185.0	37	2.52	0.0991	2.0	23.30	1900	296
240.0	61	2.24	0.0754	2.0	26.60	2480	346
300.0	61	2.50	0.0601	2.2	29.60	3100	394
400.0	61	2.85	0.0470	2.6	33.20	3940	467
500.0	91	2.65	0.0366	2.8	36.90	5000	533
630.0	91	2.97	0.0283	2.8	41.10	6350	611

Note:

\* 0.75mm<sup>2</sup> x single core HR PVC insulated 105°C available. Suitable for fluorescent lights wiring.