300/500 Volts - Copper Conductor PVC Insulated

Standard : BS 6004

Rated Voltage : 300/500 V

Harmonized Code :
Solid conductor HO5V-U
Stranded conductor HO5V-R
Flexible conductor HO5V-K

Conductor Class 1 solid copper, class 2 stranded copper or class 5 flexible copper as per IEC 60228, BS EN 60228.

Insulation PVC Insulation type TI1 as per BS EN 50363, PVC/C as per IEC 60227 temperature rating 70 °C.
(PVC 90 °C or 105 °C available on request).

Applications : Fixed protected installation inside the appliances and in or on light fitting.

Type of Conductor	Nominal Area	Insulation Thickness	Approx. Overall Diameter *
	mm^2	mm	mm
Solid	0.5	0.6	2.0
	0.75	0.6	2.2
	1.0	0.6	2.4
Stranded	0.5	0.6	2.2
	0.75	0.6	2.4
	1.0	0.6	2.6
Flexible	0.5	0.6	2.1
	0.75	0.6	2.3
	1.0	0.6	2.5

* The Approx. overall diameter is subject to a tolerance of (-2/+8)%.

Features
- Small diameter saves space.
- Excellent electric characteristics and mechanical strength.

450/750 Volts - Copper Conductor PVC Insulated

Standard : BS 6004, IEC 60227

Rated Voltage : 450/750 V

Harmonized Code : Solid conductor HO7V-U
Stranded conductor HO7V-R

Conductor Class 1 solid copper, class 2 stranded copper as per IEC 60228, BS EN 60228.

Insulation PVC Insulation type TI1 as per BS EN 50363, PVC/C as per IEC 60227
temperature rating 70 °C.
(PVC 90 °C or 105 °C available on request).

Applications : Fixed installation in dry or damp premises. Suitabel in walls or boards and in channel or embadded in plaster.

Type of Conductor	Nominal Area	Insulation Thickness	Approx. Overall Diameter *
	mm²	mm	mm
Solid	1.5	0.7	2.8
	2.5	0.8	3.4
	4	0.8	3.9
	6	0.8	4.4
	10	1.0	5.6
Stranded	1.5	0.7	3.0
	2.5	0.8	3.6
	4	0.8	4.2
	6	0.8	4.7
	10	1.0	6.1
	16	1.0	7.1
	25	1.2	8.4
	35	1.2	9.4
	50	1.4	10.9
	70	1.4	12.5
	95	1.6	14.6
	120	1.6	16.1
	150	1.8	17.9
	185	2.0	20.0
	240	2.2	22.8
	300	2.4	25.2
	400	2.6	28.4
	500	2.8	32.3
	630	2.8	36.0

* The Approx. overall diameter is subject to a tolerance of (-2/+8)%.

Features
- Small diameter saves space.
- Excellent electric characteristics and mechanical strength.

300/500 Volts - PVC Insulated PVC Sheathed Flat Cables

Standard : BS 6004

Rated Voltage : 300/500 V

Conductor Class 1 solid copper, class 2 stranded copper as per IEC 60228, BS EN 60228.

Insulation PVC Insulation type TI1 as per BS EN 50363.

Sheath PVC type 6 as per BS EN 50363
(PVC rated 90 °C or 105 °C available upon request).

Applications : Fixed installation in dry or damp premises. Suitable for installation in walls, on boards and in channels or embedded in plaster.

Nominal Area	Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Dimentions *
No. x mm²	mm	mm	mm
2 x 1.0	0.6	0.9	4.4 x 6.9
2 x 1.5	0.7	0.9	4.8 x 7.8
2 x 2.5	0.8	1.0	5.6 x 9.2
2 x 4.0	0.8	1.0	6.2 x 10.3
2 x 6.0	0.8	1.1	7.0 x 11.7
2 x 10	1.0	1.2	8.5 x 14.5
3 x 1.0	0.6	0.9	4.4 x 9.4
3 x 1.5	0.7	0.9	4.8 x 10.8
3 x 2.5	0.8	1.0	5.6 x 12.8
3 x 4.0	0.8	1.1	6.4 x 14.7
3 x 6.0	0.8	1.1	7.0 x 16.4

* The Approx. overall diameter is subject to a tolerance of (-2/+8)%.

Features
- Small diameter saves space.
- Flat shape saves places.

Core identification :
- Two Cores : Brown, Blue.
- Three Cores : Brown, Black, Grey.

300/300 Volts Light & 300/500 Volts Ordinary PVC Insulated PVC Sheathed Flexible Cables

Standard : BS 6500

Rated Voltage : Light PVC 300/300 V
Ordinary PVC 300/500 V

Harmonized Code : Light PVC HO3VV-F
Ordinary PVC HO5VV-F

Conductor Class 5 Flexible copper as per IEC 60228, BS EN 60228.

Insulation PVC Insulation type TI2 as per BS EN 50363. temperature rating 70 °C.

Sheath PVC type TM2 as per BS EN 50363 temperature rating 70 °C.
(PVC rated 90 °C or 105 °C available upon request).

Applications : These cables are used in mobile electrical equipment and units, supply pumps and motors, etc., in which cables with high flexibility are required.

Type of Conductor	Nominal Area	Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter *
	mm^2	mm	mm	mm
Light	2 x 0.50	0.5	0.6	5.0
	2 x 0.75	0.5	0.6	5.5
	3 x 0.50	0.5	0.6	5.3
	3 x 0.75	0.5	0.6	5.7
	4 x 0.50	0.5	0.6	5.8
	4 x 0.75	0.5	0.6	6.3
Ordinary	2 x 1.0	0.6	0.8	6.6
	2 x 1.5	0.7	0.8	7.5
	2 x 2.5	0.8	1.0	9.1
	2 x 4.0	0.8	1.2	10.6
	2 x 6.0	0.8	1.2	11.8
	3 x 1.0	0.6	0.8	6.9
	3 x 1.5	0.7	0.9	8.2
	3 x 2.5	0.8	1.0	9.7
	3 x 4.0	0.8	1.2	11.3
	3 x 6.0	0.8	1.4	12.9
	4 x 1.0	0.6	0.9	7.8
	4 x 1.5	0.7	1.0	9.2
	4 x 2.5	0.8	1.1	10.8
	4 x 4.0	0.8	1.4	12.7
	4 x 6.0	0.8	1.4	14.2
	5 x 1.0	0.6	0.9	8.4
	5 x 1.5	0.7	1.1	10.1
	5 x 2.5	0.8	1.2	12.0
	5 x 4.0	0.8	1.4	13.8
	5 x 6.0	0.8	1.4	15.4

* The Approx. overall diameter is subject to a tolerance of (-2/+8)%.

Features
- Small diameter saves space.
- Excellent electric characteristics and mechanical strength.

600 Volts - THHN / THWN AWG Wires

Standard : UL 83

Rated Voltage : 600 V

Jacket Nylon jacket provided over PVC insulation for protection from abrasions and scratches at the time of pulling through conduits. It also serves as a protective shield against oil, gasoline and chemicals.

Conductor Annealed solid or stranded copper wires as per UL 83.

Insulation PVC Insulation rating 105 °C.

Applications : THHN/THWN building wires are used for general purpose applications such as wiring works at residential, industrial and commercial buildings.

AWG	Equiv. Area	Insulation Thickness	Nylon Jacket Thickness	Approx. Overall Diameter *
	mm^2	mm	mm	mm
18 •	0.82	0.38	0.11	2.4
16 •	1.31	0.38	0.11	2.7
14	2.08	0.38	0.11	2.9
12	3.31	0.38	0.11	3.4
10	5.26	0.51	0.11	4.3
8	8.37	0.76	0.13	5.6

THHN: Thermoplastic insulated, High Heat-resistant, Nylon jacketed cable, 105 °C dry locations.
THWN: Thermoplastic insulated, High Water-resistant, Nylon jacketed cable, 75 °C wet locations.

• Listed as TFFN wires.
* The Approx. overall diameter is subject to a tolerance of ± 2 %.

Features
- Extra-slide properties: The special construction of the insulation assures optimum sliding even in the least favorable circumstances.
- Excellent flexibility: The use of flexible copper conductors and special PVC compounds makes this cable highly flexible.