

Conduit Wires

Single Core Flexible Conduit Wires

Cable Description:

300/500V 70 °C PVC/LSHF insulated conduit wire;
400/750V 70 °C PVC/LSHF insulated conduit wire.

Applications:

Conduit wires are designed for installation in surface mounted or embedded conduits and for fixed protected installation inside appliances and lighting fittings.

Reference Code:

PVC Insulated
2491X, H05V-K (300/500V), H07V-K (450/750V);

LSHF Insulated

2491B H05Z-K (300/500V)

Standard: BS 6004 (2491X); BS 7211 (2491B)

Conductors: Stranded annealed copper conductors

Insulation: 70 °C PVC (2491X); LSHF (2491B)

Voltage Rating: 300/500V (1.0mm²)

450/750V (1.5mm² to 120mm²)

Core Identification: Red, Black, Green/Yellow, Yellow, Blue etc.

Fire Performance

2491X Flame Retardancy: BS 4066 Part 1 (IEC 60332 Part 1)

2491B Flame Retardancy: BS 4066 Part 1 (IEC 60332 Part 1)

Corrosive Acid Gas Emission: <0.5% to BS 6425 or IEC 60754-1

Smoke Emissions: Pass BS 7211 Appendix D

Nomnal Cross-section Area of Conductor	Conductor Construction (Number and Diameter of Wires)	Nominal Thickness of Insulation	Nominal Overall Diameter	Approx. Weight
mm ²	No./mm	mm	mm	kg/km
0.5	16/0.20	0.7	2.1	8
0.75	24/0.20	0.7	2.3	10.6
1.0	32/0.20	0.7	2.5	13.7
1.5	30/0.25	0.7	3.1	20
2.5	50/0.25	0.8	3.6	31
4.0	56/0.30	0.8	4.3	46
6.0	84/0.30	0.8	5.5	75
10	80/0.40	1.0	6.8	125
16	126/0.40	1.0	8.6	199
25	196/0.40	1.2	10.3	299
35	276/0.40	1.2	11.5	421

Single Core Conduit Wires

Cable Description:

300/500V 70 °C PVC/LSHF insulated conduit wire;

450/750V 70 °C PVC/LSHF insulated conduit wire.

Applications:

Conduit wires are designed for installation in surface mounted or embedded conduits systems and for fixed protected installation inside appliances and lighting fittings.

Reference Code:

PVC Insulated

6491X, H05V-U (300/500V), H07V-R (450/750V);

LSHF Insulated

6491B H07Z-R (450/750V), 6491B (600/1000V)

Standard: BS 6004 (6491X); BS 7211 (6491B)

Conductors: Solid annealed copper conductors

(1.0mm² to 2.5mm²)

Stranded annealed copper conductors

(1.5mm² to 120mm²)

Insulation: 70 °C PVC (6491X); LSHF (6491B)

Voltage Rating: 300/500V (1.0mm²)

450/750V or 600/1000V (1.5mm² to 120mm²)

Core Identification: Red, Black, Green/Yellow,

Yellow, Blue etc.

Fire Performance

6491X Flame Retardancy:

BS 4066 Part 1 (IEC 60332 Part 1)

6491B Flame Retardancy:

BS 4066 Part 1 (IEC 60332 Part 1)

Corrosive Acid Gas Emission: < 0.5% to BS 6425 or IEC 60754-1

Smoke Emissions: Pass BS 7211 Appendix D

450/750V						600/1000V			
6491X		6491X	6491B	6491X	6491B	6491B			
Conductor Size No./ Dia.	Nominal Thickness of Insulation	Nominal Overall Diameter	Approx. Weight		Nominal Thickness of Insulation	Nominal Overall Diameter	Approx. Weight		
mm ²	mm	mm	kg/km		mm	mm	kg/km		
1.5	1/1.38	0.7	3.3	3.3	21	22	0.8	3.5	23
1.5	7/0.53	0.7	3.5	3.5	21	22	0.8	3.7	24
2.5	1/1.78	0.8	3.9	3.9	33	34	0.8	4.1	35
2.5	7/0.67	0.8	4.2	4.2	35	36	0.8	4.2	36
4	7/0.85	0.8	4.8	4.8	50	52	1.0	5.2	55
6	7/1.04	0.8	5.4	5.4	70	73	1.0	5.9	75
10	7/1.35	1.0	6.8	6.8	120	120	1.0	6.8	120
16	7/1.70	1.0	8.0	8.0	180	180	1.0	8.0	180
25	7/2.14	1.2	9.8	9.8	285	285	1.2	9.8	285
35	19/1.53	1.2	11.0	11.0	400	400	1.2	11.0	375
50	19/1.78	1.4	13.0	13.0	513	520	1.4	13.0	510
70	19/2.14	1.4	15.0	15.6	722	730	1.4	15.3	720
95	19/2.52	1.6	17.0	17.8	997	1005	1.6	17.0	995
120	37/2.03	1.6	19.0	19.5	1232	1232	1.6	19.5	1230
150	37/2.25	1.8	21.0	21.3	1516	1526	1.8	21.3	1515
185	37/2.52	2.0	23.5	24.0	1980	1920	2.0	24.0	1900
240	61/2.25	2.2	26.5	26.5	2500	2520	2.2	26.5	2475
300	61/2.52	2.4	29.5	29.5	3175	3150	2.4	29.5	3100
400	61/2.85	2.6	33.5	33.5	3950	3970	2.6	33.5	3945
500	61/3.20	2.8	37.0	37.5	4950	4980	2.8	37.5	4950
630	127/2.52	2.8	41.0	41.5	6250	6300	2.8	41.5	6300