

# 6491X Cable /HO7V-R/HO7V-U

BS EN 50525-2-31( BS6004)  
BS EN/IEC 60332-1-2  
BASEC



## Application

Suitable for use in conduit and for fixed protected installation.

## Construction

Conductor	Class 2 stranded copper HO7v-u solid copper
Insulation	PVC Polyvinyl Chloride
Voltage Rating (Uo/U)	450/750V
Temperature Rating	-0°C to +90°C
Minimum Bending Radius	up to 10mm <sup>2</sup> 4 x O/D 10mm <sup>2</sup> to 25mm <sup>2</sup> 5 x O/D Above 25mm <sup>2</sup> 6 x O/D
Available Colours	Green / Yellow Blue Brown Black Grey Red Yellow White

Premier Part No	Nominal Cross Section mm <sup>2</sup>	Nominal Thickness Insulation mm	Nominal Diameter Overall mm	Nominal Weight kg/km
27001X001.5	1.5	1	2.9	22
27001X002.5	2.5	1	3.6	32
27001X004	4	1	4.1	50
27001X006	6	1	4.7	71
27001X010	10	1	5.9	110
27001X016	16	1	6.8	164
27001X025	25	1	8.4	256
27001X035	35	1	9.4	346
27001X050	50	1	11.0	473
27001X070	70	1	12.7	674
27001X095	95	2	14.7	913
27001X120	120	1.6	16.2	1150
27001X150	150	1.8	18.0	1416
27001X185	185	2	20.0	1749
27001X240	240	2	23.0	2317
27001X300	300	2.4	25.2	3049
27001X400	400	3	28.4	3657
27001X500	500	2.8	31.8	4700
27001X630	630	2.8	38.1	5890

#### Class 2 Stranded Copper Conductors for Single & Multi-Core Cables

Nominal Cross Sectional Area mm <sup>2</sup>	Min. No. of Wires in Conductor			Max. Resistance of Conductor at 20°C Ohms /km
	Circular	Circular Compacted	Shaped	
1.5	7	6		12.1
2.5	7	6		7.41
4	7	6		4.61
6	7	6		3.08
10	7	6		1.83
16	7	6		1.15
25	7	6	6	0.727
35	7	6	6	0.524
50	19	6	6	0.387
70	19	12	12	0.268
95	19	15	15	0.193
120	37	18	18	0.153
150	37	18	18	0.124
185	37	30	30	0.0991
240	37	34	34	0.0754

In accordance with BS EN 60228

**Current Carrying Capacity**

Nominal Cross Sectional Area mm <sup>2</sup>	In Conduit or Thermally Insulated Wall		In Conduit or Thermally Insulated Wall		Clipped Direct		Free Air or Perforated Tray			
	2 cables		3 or 4 cables		2 cables		Touching		Spaced	
	single phase	Three phase	single phase	Three phase	single phase	Three phase	2 cables	3 cables	3 cables	2/3 cables
	AC /DC	AC	AC /DC	AC	AC /DC	AC	Single Phase AC/DC flat	Three Phase AC flat	Three Phase AC trefoil	AC/DC Horizontal/ Vertical
1.5	14.5	13.5	17.5	15.5	20	18				
2.5	20	18	24	21	27	25				
4	26	24	32	28	37	33				
6	34	31	41	36	47	43				
10	46	42	57	50	65	59				
16	61	56	76	68	87	79				
25	80	73	101	89	114	104	131	114	110	146 130
35	99	89	125	110	141	129	162	143	137	181 162
50	119	108	151	134	182	167	196	174	167	219 197
70	151	136	192	171	234	214	251	225	216	281 254
95	182	164	232	207	284	261	304	275	264	341 311
120	210	188	269	239	330	303	352	321	308	396 362
150	240	216	300	262	381	349	406	372	356	456 419
185	273	245	341	296	436	400	463	427	409	521 480
240	321	286	400	346	515	472	546	507	485	615 569
300	367	328	458	394	594	545	629	587	561	709 659
400			546	467	694	634	754	689	656	852 795
500			626	533	792	723	868	789	749	982 920
630			720	611	904	826	1005	905	855	1138 1070

Ambient Temperature 30°C

Conductor operating temperature 70°C

In accordance with table 4D1A of the 17th addition of the IEE wiring regs.

The information contained within this data sheet is for guidance only.  
 Cable and gland sizes are nominal and may vary according to different manufacturer's tolerances.  
 Every possible effort is made to ensure that the Information contained in this data sheet is correct.  
 However, we reserve the right to change the information or specification at any time in the light of technical developments or revisions.  
 References to or extracts from British Standards, current IEE regulations or other regulatory bodies should be verified with these organisations.