

6181Y BS6004 Cable



BS6004, BS EN/IEC 60332-1-2



APPLICATION

Fixed installation, domestic and light industrial double insulated building wire.

CONSTRUCTION

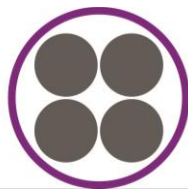
Conductor to BS EN 60228	1mm ² to 2.5mm ² Class 1 solid copper conductor
Insulation	4mm ² to 25mm ² PVC (Polyvinyl Chloride)
Sheath	PVC (Polyvinyl Chloride)

CHARACTERISTICS

Voltage Rating (Uo/U)	300/500V
Temperature Rating	Fixed: -15°C to +70°C
Minimum Bending Radius	1mm ² to 6mm ² 3 x overall diameter 10mm ² to 25mm ² 4 x overall diameter

Core Insulation colour	Blue or Brown
Sheath Colour	Grey

Premier Part No	number of cores	Nominal Cross Section mm ²	Nominal Diameter Overall mm	Nominal Weight kg/km
24001X001	1	1	4.1	28
24001X001.5	1	1.5	4.6	34
24001X002.5	1	2.5	5.3	49
24001X004	1	4	6.1	75
24001X006	1	6	6.7	99
24001X010	1	10	8.1	155
24001X016	1	16	9.3	225
24001X025	1	25	11.1	340



Conductor	Nominal Cross Sectional area mm ²	Maximum resistance of Conductor at 20°C	
		Plan Wires	Metal Coated Wires
		ohms/km	ohms/km
Class 1	1	18.1	18.2
Class 1	1.5	12.1	12.2
Class 1	2.5	7.41	7.56
Class 2	4	4.61	4.7
Class 2	6	3.08	3.11
Class 2	10	1.83	1.84
Class 2	16	1.15	1.16
Class 2	25	0.727	0.734

Current Carrying Capacity amps

Nominal Cross Sectional Area mm ²	Method A In Conduit Insulated Wall		Method B In Conduit Insulated Wall		Method C Clipped Direct		Method F In Free Air or on Perforated Tray					
	2 cables single phase		3 or 4 cables Three phase		2 cables single phase		3 or 4 cables Three phase		2 cables Single Phase		3 cables Three Phase	
	AC/DC	AC	AC/DC	AC	AC/DC	AC	AC/DC flat	AC flat	AC trefoil	Spaced 2/3 cables AC/DC		
										Horizontal/	Vertical	
1	11	10.5	13.5	12	15.5	14	*	*	*	*	*	
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	

Voltage Drop

Nominal Cross Sectional Area mm ²	Two Cables		2 Cables Single-Phase AC				3 or 4 Cables Three Phase AC		
	DC mV/A/m	Reference Method A & B Enclosed (Conduit)	Reference Methods C & F		Reference Method A & B Enclosed (Conduit)	Reference Methods C & F			
			Cables Touching	Cables Spaced		Cables Trefoil Touching	Cable Flat Touching	Cables Flat Spaced	
1	44	44	44	44	38	38	38	38	
1.5	29	29	29	29	25	25	25	25	
2.5	18	18	18	18	15	15	15	15	
4	11	11	11	11	9.5	9.5	9.5	9.5	
6	7.3	7.3	7.3	7.3	6.4	6.4	6.4	6.4	
10	4.4	4.4	4.4	4.4	3.8	3.8	3.8	3.8	
16	2.8	2.8	2.8	2.8	2.4	2.4	2.4	2.4	
		r / x / z	r / x / z	r / x / z	r / x / z	r / x / z	r / x / z	r / x / z	
25	1.75	1.80/0.33/1.80	1.75/0.20/1.75	1.75/0.29/1.80	1.50/0.29/1.55	1.50/0.175/1.50	1.50/0.25/1.55	1.50/0.32/1.55	

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.