

PVC INSULATED CABLES (WITH OR WITHOUT SHEATH)

Voltage Rating (Uo/U) : 300/500V, 450/750V or 600/1000V

Standards Complied

MAIN CABLE SPECIFICATION	MATERIALS TEST METHODS	FLAME RETARDANT TEST
SS 358 PART 3		
BS EN 50525-2-31		BS EN 50265
BS 6360	BS 7655	IEC 60332-1
IEC 60227-3	IEC 60811	IEC 60332-3 (Upon customer request)
IEC 60228		
IEC 60502-1		
AS/NZS 5000-1		

Colours of Identification

INSULATION:	1-core: Brown, Black, Grey, Blue, Red, Yellow, Yellow / Green or other colours as per customer's request. 2-core: (Brown, Blue) or (Red, Black) 3-core: (Brown, Blue, Green / Yellow) or (Brown, Black, Grey) or (Red, Yellow, Blue) 4-core: (Brown, Black, Grey, Blue) or (Red, Yellow, Blue, Black) 5-core and above: White core with Black number or (Brown, Black, Grey, Blue, Green / Yellow)
OVER SHEATH:	Black, Grey or White



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|----------------------------------|---|
| 1 Conductors | : Plain annealed stranded copper conductor. |
| 2 Insulation | : Flame retardant PVC compound. |
| 3 Filler (where applicable) | : PVC or Polypropylene yarn. |
| 4 Binder Tape (where applicable) | : Polyester (mylar) tape/ non-woven polyester tape. |
| 5 Oversheath | : Flame retardant PVC compound. |

Table P1

450/750V 1-CORE CU/PVC CABLE TO SS 358 (IEC 60227-3) & BS EN 50525-2-31 (MODEL: P-450S)

CONSTRUCTION : Plain annealed copper, PVC insulation, type TI1

COLOUR : Brown, Black, Grey, Blue, Red, Yellow, Yellow / Green or as per customer's request.

CONDUCTOR			Nom. Thick. of Insulation mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km	Minimum Insulation Resistance at 70°C Mohm/km
Size mm ²	No./Dia. Of Wire mm	Approx. diameter mm				
1.5	1/1.38	1.38	0.7	2.9	20	0.011
1.5	7/0.53	1.59	0.7	3.1	22	0.01
2.5	1/1.78	1.78	0.8	3.5	32	0.01
2.5	7/0.67	2.01	0.8	3.7	34	0.0099
4	7/0.85	2.55	0.8	4.3	50	0.0082
6	7/1.04	3.12	0.8	4.8	70	0.007
10	7/1.35	4.05	1.0	6.2	120	0.0067
16	7/1.70	5.10	1.0	7.2	180	0.0056
25	7/2.14	6.42	1.2	9.0	280	0.0053
35	19/1.53	7.65	1.2	10.0	375	0.0046
50	19/1.78	8.90	1.4	11.9	505	0.0046
70	19/2.14	10.70	1.4	13.7	715	0.0040
95	19/2.52	12.60	1.6	16.0	985	0.0039
120	37/2.03	14.21	1.6	17.6	1220	0.0035
150	37/2.25	15.75	1.8	19.6	1505	0.0035
185	37/2.52	17.64	2.0	21.9	1885	0.0035
240	61/2.25	20.25	2.2	25.0	2460	0.0034
300	61/2.52	22.68	2.4	28.0	3075	0.0033
400	61/2.85	25.62	2.6	31.5	3915	0.0031
500	61/3.20	28.80	2.8	34.7	4915	0.0030
630	127/2.52	32.76	2.8	38.7	6260	0.0027
800	127/2.85	37.05	2.8	43.0	7963	0.0024
1000	127/3.20	41.60	3.0	48.0	10004	0.0023

NOTE: Current Rating & Volt Drop refer to Table T5 & T5a

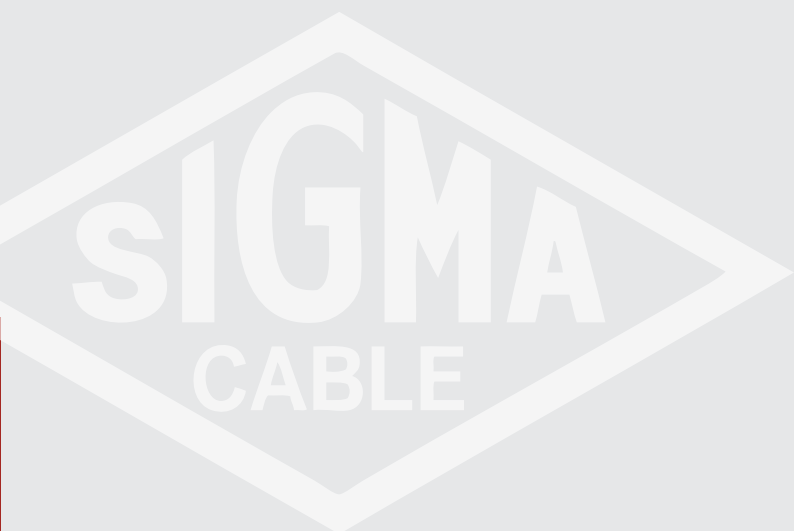


Table P2

600/1000V SINGLE-CORE CU/PVC/PVC CABLE TO IEC 60502-1 (MODEL: PP-600S)

Conductor : Plain annealed copper

Insulation : PVC Type A Colour : Brown, Blue, Red or Black

Sheath : PVC Type ST1 Colour : Grey or Black

CONDUCTOR			Nom. Thick. of Insulation mm	Nom. Thick. of Sheath mm	Approx. OD of Cable mm	Approx. Weight of Cable kg/km
Size mm ²	No./Dia. of Wire mm	Approx. diameter mm				
1.5	1/1.38	1.38	0.8	1.4	6.0	52
1.5	7/0.53	1.59	0.8	1.4	6.2	55
2.5	1/1.78	1.78	0.8	1.4	6.4	65
2.5	7/0.67	2.01	0.8	1.4	6.7	68
4	7/0.85	2.55	1.0	1.4	7.6	95
6	7/1.04	3.12	1.0	1.4	8.2	120
10	7/1.35	4.05	1.0	1.4	9.1	169
16	7/1.70	5.10	1.0	1.4	10.2	236
25	7/2.14	6.42	1.2	1.4	11.9	350
35	19/1.53	7.65	1.2	1.4	13.1	455
50	19/1.78	8.90	1.4	1.4	14.8	595
70	19/2.14	10.70	1.4	1.4	16.6	813
95	19/2.52	12.60	1.6	1.5	19.2	1110
120	37/2.03	14.21	1.6	1.5	21.0	1358
150	37/2.25	15.75	1.8	1.6	23.0	1664
185	37/2.52	17.64	2.0	1.7	25.5	2075
240	61/2.25	20.25	2.2	1.8	29.0	2686
300	61/2.52	22.68	2.4	1.9	32.0	3328
400	61/2.85	25.62	2.6	2.0	36.0	4230
500	61/3.20	28.80	2.8	2.1	40.0	5285
630	127/2.52	32.76	2.8	2.2	44.0	6686
800	127/2.85	37.05	2.8	2.3	48.0	8410
1000	127/3.20	41.60	3.0	2.5	54.0	10545

Table P3

600/1000V MULTI-CORE CU/PVC/PVC CABLE TO IEC 60502-1 (MODEL: PP-600M)

Insulation : PVC insulation, Type A Core identification :
 2C : (Brown, Blue) or (Red, Black)
 3C : (Brown, Black, Grey) or (Red, Yellow, Blue)
 4C : (Brown, Black, Grey, Blue) or (Red, Yellow, Blue, Black)

Sheath : PVC Type ST1 Colour : Black

CONDUCTOR			Nom. Thick. of Insulation mm	Nom. Thick. of Sheath			Approx. OD & Weight of Cable					
Size mm²	No./Dia. of Wire mm	Approx. diameter mm		2C mm	3C mm	4C mm	2C		3C		4C	
							OD mm	WT kg/km	OD mm	WT kg/km	OD mm	WT kg/km
1.5	7/0.53 CR	1.59	0.8	1.8	1.8	1.8	11.0	145	11.5	165	12.0	200
2.5	7/0.67 CR	2.01	0.8	1.8	1.8	1.8	11.5	180	12.0	210	13.0	255
4	7/0.85 CR	2.55	1.0	1.8	1.8	1.8	13.5	255	14.0	305	15.5	375
6	7/1.04 CR	3.12	1.0	1.8	1.8	1.8	15.0	285	15.5	370	17.0	455
10	7/1.35 CR	4.05	1.0	1.8	1.8	1.8	17.0	395	17.5	515	19.0	665
16	7/1.70 CR	5.10	1.0	1.8	1.8	1.8	19.0	590	20.0	740	22.0	930
25	7/2.14 SS	-	1.2	1.8	1.8	1.8	19.0	710	21.0	1015	23.5	1325
35	19/1.53 SS	-	1.2	1.8	1.8	1.8	20.0	930	23.0	1330	26.0	1740
50	19/1.78 SS	-	1.4	1.8	1.8	1.9	23.0	1225	26.0	1765	29.0	2320
70	19/2.14 SS	-	1.4	1.9	1.9	2.0	25.5	1680	29.0	2435	33.0	3215
95	19/2.52 SS	-	1.6	2.0	2.1	2.2	29.0	2280	35.0	3360	39.0	4400
120	37/2.03 SS	-	1.6	2.1	2.2	2.3	32.0	2805	38.0	4140	42.5	5440
150	37/2.25 SS	-	1.8	2.2	2.3	2.5	35.0	3430	42.0	5070	47.0	6675
185	37/2.52 SS	-	2.0	2.4	2.5	2.6	39.0	4285	46.0	6330	53.0	8360
240	37/2.88 SS	-	2.2	2.5	2.6	2.8	48.0	5565	56.0	8265	61.0	10870
300	61/2.52 SS	-	2.4	2.7	2.8	3.1	53.0	6965	63.0	10355	68.0	13650
400	61/2.85 SS	-	2.6	2.9	3.1	3.3	58.0	9020	70.0	13090	78.0	17360

NOTE: Current Rating & Volt Drop refer to Table T5, T5a, T6 & T6a