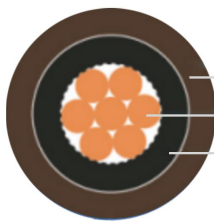


Cu/PVC/PVC

PVC insulated,PVC sheathed, Single Core Cables,300/500V,6181Y,BS6004

APPLICATION AND DESCRIPTION



- PVC sheath
- Bare copper conductor
- PVC insulation



- ◎ 1.0mm²-2.5mm² circular solid to BS EN 60228 or IEC 60228 Class 1, 4.0mm² and above stranded circular to BS EN 60228 or IEC 60228 Class 2 .
- ◎ PVC insulation Type TI1 to BS7655
- ◎ PVC sheath Type 6 to BS7655

CORE IDENTIFICATION

- ◎ **Insulation:**black,blue,brown,Grey,or others upon request.
- ◎ **Sheath:**Normally white but others available on request

TECHNICAL CHARACTERISTICS

TECHNICAL CHARACTERISTICS	
Working voltage	300/500V
Minimum bending radius	3×Overall diameter
Operating temperature	-15°C to +70°C
Insulation resistance	10MΩ·km
Flame retardant	BS EN 60332-1-2

Nominal cross sectional area	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance at 20°C	Short circuit rating 90-250°C (1 sec)	Current Rating			Voltage Drop	
					Single phase AC or DC enclosed in conduit or trunking	Single phase AC or DC flat touching clipped direct	Three phase AC clipped direct	Single phase AC or DC	Three phase AC
mm²	mm	kg/km	Ohms/km	kA	Amps			mV/A/m	
6181Y(Solid conductor)									
1.0	4.0	26	18.1	0.12	13.5	15.5	14	44	38
1.5	4.5	34	12.1	0.17	17.5	20	18	29	25
2.5	4.9	48	7.41	0.28	24	27	25	18	15
6181Y(Stranded conductor)									
4.0	6.0	72	4.61	0.46	32	37	33	11	9.5
6.0	6.6	96	3.08	0.69	41	47	43	7.3	6.4
10	8.0	145	1.83	1.15	57	65	59	4.4	3.8
16	9.2	211	1.15	1 84	76	87	79	2.8	2.4
25	11.1	324	0.727	2.88	101	114	104	1.75	1.55
35	12.3	427	0.524	4.00	125	141	129	1.25	1.10

TEMPERATURE RATING FACTORS

Ambient Temperature °C	25	30	35	40	45	50	55	60	65
Rating Factor	1.03	1.00	0.94	0.87	0.79	0.71	0.61	0.5	0.35

CORRECTION FACTORS FOR GROUPINGS

Number of Circuits	2	3	4	5	6	7	8	9	10
Rating Factor	0.8	0.7	0.65	0.6	0.57	0.54	0.52	0.5	0.48

※Note: Ambient Temperature 30°C

Conductor Operation Temperature 70°C

If current rating and buildings is required reference should be made to BS7671 (IEE Wiring Regs)

Complied with the HongKong EMSD COP, and the rating is the average of the conductor cross-sectional area and installation method, and the overall error is within ±5%