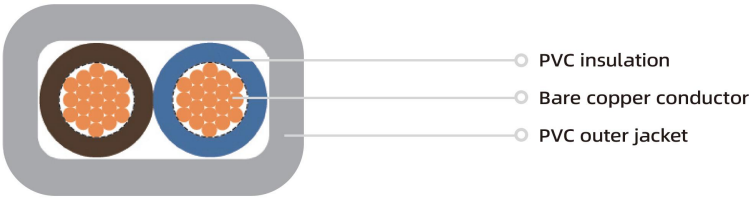
PVC Flat Cable

PVC insulated,PVC sheathed,Flat Wiring Cables, 6192Y,6193Y, 300/500V, BS6004

APPLICATION AND DESCRIPTION



- 1.0mm² to 2.5mm² solid conductor complying with BS EN60228 or IEC 60228 Class 1, 4.0mm²to 16mm² stranded complying with BS EN 60228 or IEC 60228 Class 2.
- PVC insulation type Tl1 to BS 7655
- PVC sheath type T6 to BS 7655

CORE IDENTIFICATION

- **Insulation:** 2 cores: brown and blue.
  3 cores: brown, black and grey.
- **Sheath:** Normally white or grey but other colors available upon request.

TECHNICAL CHARACTERISTICS

Working voltage	300/500V
Test voltage	2000 Volts
Minimum bending radius	4×Overall diameter
Operating temperature	-15℃ to +70℃
Short circuit temperature	+160℃
Flame retardant	IEC 60332.1
Insulation resistance	10MΩ·km

Nominal cross sectional area	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance at 20°C	Short circuit rating (1 sec)	Current Rating		Voltage drop
					Single phase AC or DC enclosed in conduit or trunking	Single phase AC or DC clipped direct	Single phase AC or DC
mm²	mm	kg/km	Ohms/km	kA	Amps		mV/A/m
6192Y 2cores							
1.0	4.8x7.4	53	18.1	0.12	13.5	15.5	44
1.5	5.3×8.5	70	12.1	0.17	17.5	20	29
2.5	6.2×10.1	105	7.41	0.28	24	27	18
4.0	6.9×11.5	150	4.61	0.46	32	37	11
6.0	7.8×13.0	205	3.08	0.69	41	47	7.3
10	9.5×16.2	325	1.83	1.15	57	65	4.4
16	10.8×18.6	465	1.15	1.84	76	89	2.8

Nominal cross sectional area	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance at 20°C	Short circuit rating (1 sec)	Current Rating		Voltage drop
					Three phase AC enclosed in conduit or trunking	Three phase AC clipped direct	Three phase AC
6193Y 3cores							
1.0	4.8×10.1	77	18.1	0.12	12	14	38
1.5	5.3×11.7	100	12.1	0.17	15.5	18	25
2.5	6.2×14.0	150	7.41	0.28	21	25	15
4.0	7.1×16.3	230	4.61	0.46	28	33	9.5
6.0	7.8×18.2	300	3.08	0.69	36	43	6.4
10	9.5×23.0	485	1.83	1.15	50	59	3.8
16	10.8×26.3	700	1.15	1.84	68	79	2.4

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	0.50	0.35

CORRECTION FACTORS FOR GROUPINGS

Number of Circuits	2	3	4	5	6	7	8	9	10
Rating Factor	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48

※**Note:** Ambient Temperature 30°C

Conductor Operation Temperature 70°C

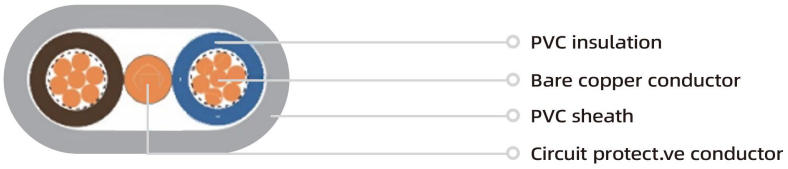
If current rating and buildings is required reference should be made to BS7671 (IEE Wiring Regs)

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

PVC Flat Cable+CPC

PVC insulated,PVC sheathed,Flat Wiring Cables with Bare CPC,6242Y,300/500V,BS 6004

APPLICATION AND DESCRIPTION



◎ 1.0mm² to 2.5mm² solid conductor complying with BS EN60228 Class 1,
4.0mm²to 16mm2 stranded complying with BS EN 60228 Class 2
◎ PVC insulation type Tl1 to BS 7655
◎ PVC sheath type T6 to BS 7655

CORE IDENTIFICATION

◎ Insulation: 1 cores: brown - CPC
2 cores: brown - CPC - blue
3 cores: brown - black - CPC - grey
◎ Sheath: Normally white or grey but other colors available upon request

TECHNICAL CHARACTERISTICS

Working voltage	300/500V
Test voltage	2000 Volts
Minimum bending radius	4×Overall diameter
Working temperature	-15℃ to +70℃
Short circuit temperature	+160℃
Flame retardant	IEC 60332.1
Insulation resistance	10MΩ·km

Nominal cross sectional area	CPC area	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance at 20°C	Short circuit rating (1 sec)	Current Rating			Volt drop	
						Single phase AC or DC enclosed in conduit or trunking	Single phase AC or DC clipped direct	Three phase AC clipped direct	Single phase AC or DC	Three phase AC
mm^2	mm^2	mm	kg/km	Ohms/km	kA	Amps			mV/A/m	
6242Y 1core+CPC+1core										
1.0	1.0	4.8×8.7	67	18.1	0.12	13.5	15.5	14	44	38
1.5	1.0	5.4×9.6	85	12.1	0.17	17.5	20	18	29	25
2.5	1.5	6.2×11.5	120	7.41	0.28	24	27	25	18	15
4.0	1.5	6.9×13.1	171	4.61	0.46	32	37	33	11	9.5
6.0	2.5	7.8×15.0	237	3.08	0.69	41	47	43	7.3	6.4
10	4	9.5×18.9	369	1.83	1.15	57	65	59	4.4	3.8
16	6	10.8×21.9	532	1.15	1.84	76	87	79	2.8	2.4

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	0.50	0.35

CORRECTION FACTORS FOR GROUPINGS

Number of Circuits	2	3	4	5	6	7	8	9	10
Rating Factor	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48

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