

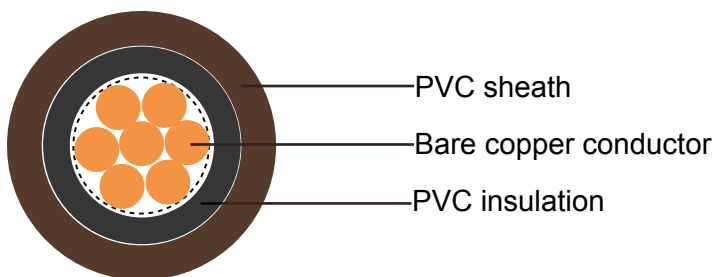


### 6181Y/6181X to BS 6004 and 6346

#### Application and Description

These cables are designed for surface wiring where there is little risk of mechanical damage and are suitable for use in electrical installations such as power and lighting.

#### Cable Construction



6181Y



6181Y

- Bare copper conductor
- Solid to BS 6360 class 1 or IEC 60228 class 1; stranding to BS 6360 class 2 or IEC 60228 class 2  
1.0mm<sup>2</sup>- 2.5mm Class 1 – circular solid  
4mm<sup>2</sup> and above - Class 2 – stranded circular or circular compacted
- PVC insulation Type TI1 to BS7655 or XLPE(6181X)
- PVC sheath Type TM1 or Type 6 to BS7655

#### Core Identification

Black, Blue, Brown

#### Technical Characteristics

- Working voltage: 1.0mm<sup>2</sup> to 35mm<sup>2</sup> - 300/500V to BS 6004  
50mm<sup>2</sup> and above - 600/1000V to BS 6346
- Minimum bending radius: up to 35 mm<sup>2</sup> : 3xoverall diameter,  
50mm<sup>2</sup> to 185mm<sup>2</sup>above: 4xoverall diameter  
240mm<sup>2</sup> and above: 6xoverall diameter
- Operating temperature: -15° C to +70° C



- Insulation resistance: 10 MΩxkm
- Flame retardant: IEC 60332.1

### Cable Parameter

AWG (No of Strands/ Strand Diameter)	No. of Cores x Nominal Cross Sectional Area #xmm <sup>2</sup>	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
18	1x1	0.6	0.8	4.5	27
16	1x1.5	0.7	0.8	4.9	36
14	1x2.5	0.8	0.8	5.8	52
12(7/20)	1x4	0.9	0.9	6.8	76
10(7/18)	1x6	0.8	0.9	7.4	100
8(7/16)	1x10	1	0.9	8.8	160
6(7/14)	1x16	1	1	10.5	230
4(7/12)	1x25	1.2	1.1	12.5	340
2(7/10)	1x35	1.2	1.1	13.5	440
1(19/13)	1x50	1	1.4	13.7	541
2/0(19/11)	1x70	1.1	1.4	15.8	749
3/0(19/10)	1x95	1.1	1.5	17.5	1000
4/0(37/12)	1x120	1.2	1.5	19.3	1241
300MCM(37/11)	1x150	1.4	1.6	21.5	1523
350MCM(37/10)	1x185	1.6	1.6	24.7	1942
500MCM(61/11)	1x240	1.7	1.7	27.7	2514
-(61/10)	1x300	1.8	1.8	30.6	3125
-(61/9)	1x400	2	1.9	34.2	3967
-(61/8)	1x500	2.2	2	38	5063
-(127/10)	1x630	2.4	2.2	42.9	6491