

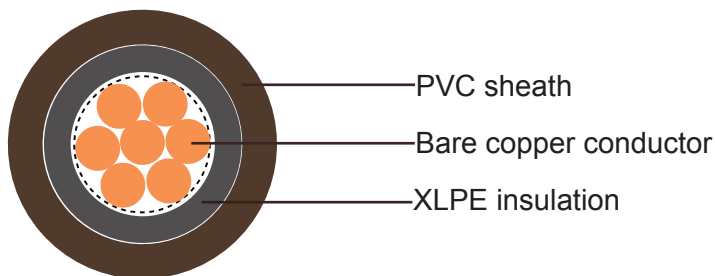


6181X/6182X/6183X/6184X/6185X to BS 7889

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



6181X

- Bare copper conductor
- Stranding to BS 6360 CL-2 or IEC 60228 CL-2
- XLPE GP8 insulation
- Inner covering (optional)
- PVC sheath Type 9 to BS7655-4.2

Core Identification

- 1-core: brown or blue;
- 2-core: brown and blue;
- 3-core: brown, black and grey; or green/yellow, brown and blue
- 4-core: blue, brown, black and grey; or green/yellow, brown, black and grey
- 5-core: green/yellow, blue, brown, black and grey

Technical Characteristics

- Working voltage: 600/1000V
- Minimum bending radius: OD<25 mm : 4xoverall diameter,
OD>25 mm: 6xoverall diameter
Shapped conductor: 8xoverall diameter



Industrial Cables to British Standard

- Operating temperature: -15° C to +90° C
- Insulation resistance: 10 MΩxkm
- Flame retardant: IEC 60332.1

Cable Parameter

Nominal Cross Sectional Area mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Inner Covering mm	Nominal Thickness of Sheath mm	Nominal Cross Sectional Area mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Inner Covering mm	Nominal Thickness of Sheath mm
6181X				6182X			
1.5	0.7	0.4	1.4	1.5	0.7	0.4	1.8
2.5	0.7	0.4	1.4	2.5	0.7	0.4	1.8
4	0.7	0.4	1.4	4	0.7	0.4	1.8
6	0.7	0.4	1.4	6	0.7	0.4	1.8
10	0.7	0.4	1.4	10	0.7	0.6	1.8
16	0.7	0.4	1.4	16	0.7	0.6	1.8
25	0.9	0.4	1.4	25	0.9	0.8	1.8
35	0.9	0.4	1.4	35	0.9	0.8	1.8
50	1.0	0.6	1.4	50	1.0	1.0	1.8
70	1.1	0.6	1.4	70	1.1	1.0	1.8
95	1.1	0.6	1.5	95	1.1	1.2	1.9
120	1.2	0.8	1.5	120	1.2	1.2	2.0
150	1.4	0.8	1.6	25 *	0.9	0.6	1.8
185	1.6	0.8	1.6	35 *	0.9	0.6	1.8
240	1.7	1.0	1.7	50 *	1.0	0.8	1.8
300	1.8	1.0	1.8	70 *	1.1	0.8	1.8
400	2.0	1.2	1.9	95 *	1.1	1.0	1.9
500	2.2	1.2	2.0	120 *	1.2	1.0	2.0
630	2.4	1.4	2.2	*Shaped stranded conductor			
800	2.6	1.6	2.3				
1000	2.8	1.6	2.4				



Nominal Cross Sectional Area mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Inner Covering mm	Nominal Thickness of Sheath mm	Nominal Cross Sectional Area mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Inner Covering mm	Nominal Thickness of Sheath mm
6183X				6184X			
1.5	0.7	0.4	1.8	1.5	0.7	0.4	1.8
2.5	0.7	0.4	1.8	2.5	0.7	0.4	1.8
4	0.7	0.4	1.8	4	0.7	0.4	1.8
6	0.7	0.4	1.8	6	0.7	0.6	1.8
10	0.7	0.6	1.8	10	0.7	0.6	1.8
16	0.7	0.6	1.8	16	0.7	0.6	1.8
25	0.9	0.8	1.8	25	0.9	0.8	1.8
35	0.9	0.8	1.8	35	0.9	1.0	1.8
50	1.0	1.0	1.8	50	1.0	1.0	1.8
70	1.1	1.2	1.9	70	1.1	1.2	2.0
95	1.1	1.2	2.0	95	1.1	1.2	2.1
120	1.2	1.2	2.1	120	1.2	1.2	2.3
25 *	0.9	0.6	1.8	25 *	0.9	0.8	1.8
35 *	0.9	0.8	1.8	35 *	0.9	0.8	1.8
50 *	1.0	0.8	1.8	50 *	1.0	1.0	1.8
70 *	1.1	1.0	1.9	70 *	1.1	1.2	2.0
95 *	1.1	1.2	2.0	95 *	1.1	1.2	2.1
120 *	1.2	1.2	2.1	120 *	1.2	1.2	2.3
6185X							
1.5	0.7	0.4	1.8	25	0.9	1.0	1.8
2.5	0.7	0.4	1.8	35	0.9	1.0	1.8
4	0.7	0.6	1.8	50	1.0	1.2	1.9
6	0.7	0.6	1.8	70	1.1	1.2	2.1
10	0.7	0.6	1.8	95	1.1	1.4	2.2
16	0.7	0.8	1.8	120	1.2	1.4	2.4

*Shaped stranded conductor