



## Single Core PVC

### 6181XY Double Insulated Surface Wire

Plain annealed copper conductor, XLPE insulated/PVC sheathed. 600/1000 volts grade to IEC 60502 and BS7889 (where applicable)

**Applications:** Suitable for use in fixed installations in industrial areas and buildings but not for direct burial in the ground.

**Conductor Stranding:** Class 2 stranded circular or circular compacted

**Operating Temperature:** Maximum 90°C, Minimum flexing -15°C

**Minimum bending radius:** Diameter up to 25mm: 4 x overall diameter  
Diameter over 25mm: 6 x overall diameter



Size SQ.MM	Diameter over conductor mm	RT of insulation mm	Diameter over core mm	Nominal overall diameter mm	Weight KG/KM	Current Rating	
						Single Phase ac or dc amps	Three phase ac amps
6	3.12	0.7	4.5	7.3	104		
10	4.05	0.7	5.5	8.3	150		
16	5.10	0.7	6.5	9.3	214		
25	6.40	0.9	8.2	11.0	317		
35	7.50	0.9	9.3	12.1	420		
50	8.90	1.0	11.1	14.2	560	228	209
70	10.70	1.1	13.2	16.4	787	293	268
95	12.60	1.1	15.0	18.3	1050	355	326
120	14.98	1.2	17.6	21.2	1450	413	379
150	15.96	1.4	19.0	22.8	1650	476	436
185	17.78	1.6	21.3	25.1	2030	545	500
240	20.52	1.7	24.3	28.4	2660	644	590
300	22.86	1.8	26.8	31.0	3250	743	681
400	25.74	2.0	30.1	34.8	4100	868	793
500	28.80	2.2	33.6	38.5	5100	990	904
630	33.02	2.4	38.3	43.4	6630	1130	1033

#### BATT PART NUMBER TABLE

##### Conductor Size MM

Colour	6	10	16	25	35	50	70	95
Red/Red	16466	16239	16129	-	-	-	-	-
Black/Black	16383	16259	17577	17578	-	-	-	-
Grn/Yellow/Grn/Yell				-	-	-	-	-
Blue/Black	16667	16634	16571	16581	16669	16621	16582	16622
Brown/Grey	16668	16762	16633	16636	16766		16768	
Blue/Blue		16507			-	-	-	16011
Brown/Black			16572	16573	16637	16574	16575	16576
Blue/Grey		16763	16632	16635	16765		16767	

##### Conductor Size MM

Colour	120	150	185	240	300	400	500	630
Red/Red	-	-	-	-	-	-	-	-
Black/Black	-	-	-	-	-	-	-	-
Grn/Yellow/Grn/Yell	-	-	-	-	-	-	-	-
Blue/Black	16643	16614	16623	16583	16639	16628	16584	16641
Brown/Black	16577	16578	16579	16580	16720			
Yellow/Yellow	-	-	-	-	-	-	-	-

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