



## 15KV Single Core AWA PVC Cable BS6622 IEC60502-2

<b>Applications:</b>	Mains power transmission cables
<b>Conductor:</b>	Plain annealed stranded compacted copper
<b>Conductor identification:</b>	Coloured tape under the screen
<b>Insulation:</b>	XLPE (Cross linked polyethylene)
<b>Screen:</b>	Semi-conducting layer with a copper tape screen covering each core
<b>Bedding</b>	PVC (Polyvinyl chloride)
<b>Armour:</b>	AWA (Aluminium wire armour)
<b>Outer sheath:</b>	PVC (Polyvinyl chloride)
<b>Colour:</b>	Red (Black on request)
<b>Voltage:</b>	8.7 / 15 kv
<b>Operating temperature:</b>	Maximum 90°C, minimum bending 0°C
<b>Standards:</b>	BS6622 (PVC) BS6622: Power cables, thermosetting polymer insulated high voltage or BS7835 (LSZH) : Specification for armoured cables with extruded cross-linked polyethylene or ethylene propylene rubber insulation for rated voltages from 3.8/6.6kV up to 19/33kV having low emission of smoke and corrosive gases when affected by fire. IEC60502-2: Power cables with extruded insulation and their accessories for rated voltages from 6kV to 30kV ( $U_m=36kV$ )



Size sq.mm	Reactance at 50HZ	Impedance at 50KZ	Max capacitance pF/m	Min bending radius mm	Thickness of PVC bedding mm	Thickness of PVC sheath mm	Approx overall diameter mm	Weight kg/m	BATT part no Red	BATT part no Black
150	121	198	301	700	1.2	2.1	37.8	2.7	-	56256
240	113	148	363	800	1.2	2.3	42.4	3.8	-	-
300	108	133	398	850	1.2	2.3	44.7	4.5	-	56259
400	107	124	439	900	1.3	2.5	49.0	5.6	-	-
500	103	114	483	950	1.3	2.6	52.1	6.7	-	-
630	99.5	107	534	1050	1.4	2.7	55.9	8.2	56690	-

Size mm <sup>2</sup>	Electrical Data		Current Ratings			Short circuit ratings	
	Max DC resistance of conductor at 20°C $\mu\text{Ohms/m}$	Max AC resistance of conductor at 90°C $\mu\text{Ohms/m}$	Laid in ground amps	Drawn into twin wall ducts amps	Laid in air amps	One second short circuit rating of conductor kA	One second short circuit rating of armour kA
150	124	159	400	355	485	21.4	11.4
185	99.1	127	450	390	550	26.4	12.0
240	75.4	98	510	435	640	34.3	12.8
300	60.1	79	570	470	725	42.9	13.6
400	47.0	63	625	505	820	57.2	18.7
500	36.6	51	690	550	925	71.5	20.4
630	28.3	41	750	590	1035	90.1	22.5

Current rating conditions:  
 Ground temperature: 15°C  
 Depth of burial 0.8m  
 Thermal resistance of soil: 1.2°C m/W