



-the nation's live wire-

ARMOURED CABLES

600/1000V Armoured Cables with PVC Insulation and PVC Sheath

MULTI-CORE, PVC-INSULATED, ARMOURED 600/1000V CABLES (VVWAZV)



Specification: BS 6346

Construction: plain annealed-copper circular solid, circular stranded, or shaped stranded conductors with PVC insulation; two three, or four cores twisted together, covered with extruded PVC or lapped tape as bedding, single layer of galvanized steel wire armouring, then PVC oversheath

Colours of core identification:

two core: red and black

Three core: red, yellow and blue

four core: red yellow, blue and black

Application: general underground electricity supply

Number of cores	Conductor		Nominal thickness of insulation mm	Thickness of bedding mm	Diameter of steel armour wire mm	Thickness of PVC over sheath mm	Approximate overall diameter mm	Approximate mass per km kg	Maximum conductor resistance per km at 20°C ohm
	Nominal area of conductor mm ²	Number and nominal diameter of wires mm							
2	1.5	1/1.38	0.6	0.8	0.9	1.3	11.7	240	12.1
	2.5	1/1.78	0.7	0.8	0.9	1.4	13.1	300	7.28
	4	7/0.85	0.8	0.8	0.9	1.4	15.1	400	4.61
	6	7/1.04	0.8	0.8	0.9	1.5	16.5	470	3.08
	10	7/1.35	1.0	0.8	1.25	1.6	20.1	770	1.83
	16	7/1.70	1.0	0.8**	1.25	1.6	18.9	790	1.15
	25	7/2.14	1.2	0.8**	1.6	1.7	22.6	1,220	0.727
	35	*	1.2	0.8**	1.6	1.8	24.5	1,470	0.524
	50	*	1.4	0.8**	1.6	1.9	27.4	1,910	0.387
	70	*	1.4	0.8**	1.6	1.9	30.0	2,370	0.268
95	*	1.6	0.8**	2.0	2.1	34.7	2,310	0.193	
3	1.5	1/1.38	0.6	0.8	0.9	1.4	12.3	270	12.1
	2.5	1/1.78	0.7	0.8	0.9	1.4	13.6	340	7.28
	4	7/0.85	0.8	0.8	0.9	1.4	15.8	470	4.61
	6	7/1.04	0.8	0.8	1.25	1.5	18.0	670	3.08
	10	7/1.35	1.0	0.8	1.25	1.6	21.2	910	1.83
	16	7/1.70	1.0	0.8**	1.25	1.6	20.6	1,040	1.15
	25	7/2.14	1.2	0.8**	1.6	1.7	24.6	1,590	0.727
	35	*	1.2	0.8**	1.6	1.8	26.9	2,000	0.524
	50	*	1.4	0.8**	1.6	1.9	30.1	2,610	0.387
	70	*	1.4	0.8**	2.0	2.0	34.2	3,590	0.268
95	*	1.6	0.8**	2.0	2.1	38.5	4,580	0.193	
4	1.5	1/1.38	0.6	0.8	0.9	1.4	13.0	300	12.1
	2.5	1/1.78	0.7	0.8	0.9	1.4	14.5	400	7.28
	4	7/0.85	0.8	0.8	1.25	1.5	17.8	640	4.61
	6	7/1.04	0.8	0.8	1.25	1.5	19.2	770	3.08
	10	7/1.35	1.0	0.8	1.25	1.6	22.8	1,090	1.83
	16	7/2.14	1.0	0.8**	1.6	1.7	23.5	1,400	1.15
	25	*	1.2	0.8**	1.6	1.8	27.4	1,950	0.727
	35	*	1.2	0.8**	1.6	1.9	30.1	2,440	0.524
	50	*	1.4	0.8**	2.0	2.0	34.6	3,360	0.387
	70	*	1.4	0.8**	2.0	2.1	38.4	4,310	0.268
95	*	1.6	0.8**	2.0	2.2	43.5	5,550	0.193	

* Shaped stranded conductors

**lapped tape bedding

See current- carrying capacities and associated voltage drops on the next page

