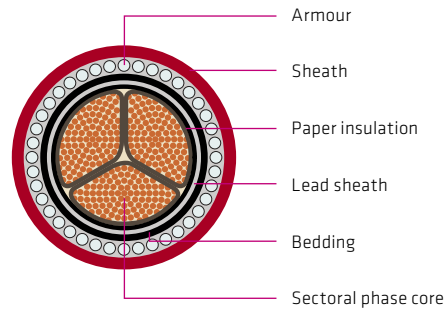


11/11 kV Paper Insulated



Cable description

Three core belted paper insulated cable to AS1026 and AS/NZS 1972.

Application

High voltage feeder cables used in power reticulation throughout the mine. Suitable as primary supply for mines and industrial networks.

Note: 12.7/22 kV XPLE cable can be used as an alternative, with gains in temperature rating generally allowing a reduction in cable size, with consequent savings in cost, size and weight.

Approvals

AS/NZS 1972

Behaviour in flame and fire

No fire performance

Temperature range

Maximum operating temperature: +65 °C

Minimum operating temperature: 0 °C

Flexibility

Rigid

Resistance to

Chemical exposure: Very good/Frequent

Mechanical impact: Very heavy

Water exposure: Immersion/Temporary coverage

Solar radiation and

weather exposure: Suitable for direct exposure

Cable design

Paper insulated, paper belted, lead sheathed, GSW armoured, PVC sheathed cable.

Core: Metal: Compacted shaped plain annealed copper conductor. Semiconductive tape screen.

Insulation: Impregnated paper tape insulated (numbered), overall paper tape belt insulated.

Inner sheath: Lead alloy.

Bedding: Bitumen impregnated paper and textile tape.

Armour: Galvanised steel wire armour.
The armour is designed to provide not less than 50% conductance of the power conductor.

Outer sheath: PVC (red).

Installation conditions

In free air

In duct

Buried direct

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Physical & electrical characteristics

11/11 kV Paper Insulated				
Conductor		Nominal overall diameter mm	Approx. cable mass kg/100m	Min. installed bend radius mm
mm ²	Shape			
16	Circular	47.6	551	570
25	Circular	49	632	590
35	Circular	50.3	673	600
50	Sector	53	748	640
70	Sector	56.3	873	680
95	Sector	60	1021	720
120	Sector	62.1	1122	750
150	Sector	65.1	1268	780
185	Sector	69.9	1542	840
240	Sector	74.8	1793	900
300	Sector	79.8	2119	960
400	Sector	86.3	2505	1040
500	Sector	92.2	3003	1110

Core	Current rating			Electrical characteristics					
	In air A	In ground A	In ducts A	DC ohm	AC ohm	Inductance	Capacitance	Star reactance	Volt drop
16	61	75	67	1.15	1.35	0.398	0.165	0.125	2.35
25	79	96	86	0.727	0.856	0.344	0.212	0.108	1.49
35	95	115	102	0.524	0.617	0.323	0.242	0.102	1.08
50	120	143	126	0.387	0.456	0.292	0.29	0.092	0.805
70	149	176	154	0.268	0.316	0.28	0.328	0.088	0.568
95	182	211	185	0.193	0.228	0.27	0.367	0.085	0.421
120	208	240	210	0.153	0.181	0.264	0.398	0.083	0.345
150	236	270	239	0.124	0.147	0.255	0.435	0.08	0.29
185	269	303	269	0.0991	0.118	0.25	0.474	0.078	0.246
240	318	353	313	0.0754	0.091	0.242	0.525	0.076	0.205
300	362	396	351	0.0601	0.073	0.238	0.573	0.075	0.181
400	419	450	398	0.047	0.059	0.234	0.642	0.073	0.162
500	481	509	456	0.0366	0.047	0.229	0.715	0.072	0.149

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