6350/11000V

EATS 09-12 (11kV Belted) PICAS Cables

CABLE CHARACTERISTICS





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CABLE DESCRIPTION

1.CONDUCTOR

Compacted sector shaped stranded aluminium conductor complying with BS6360 Class 2.

2. CONDUCTOR SCREEN

Semi-conducting carbon paper tapes.

3.INSULATION

Layers of paper tapes applied helically and mass impregnated with non-draining insulating compound (MIND). An additional belt of insulating paper-tapes is applied over the laid up cores. Core identification: Outer core papers printed with white numbers 1, 2 and 3.

4 & 5.LAYING UP

Three cores laid up with paper fillers and bound with belt insulating papers.

6.INSULATION SCREEN

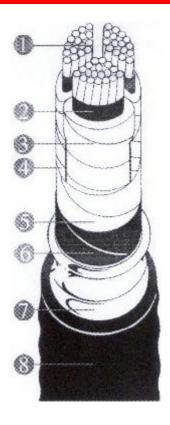
Semi-conducting carbon paper tapes applied over the belt insulation.

7.ALUMINIUM SHEATH

Extruded corrugated aluminium sheath with bitumen coating.

8.CABLE SERVING

Extruded red polyvinyl chloride (PVC) is supplied as standard.





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Constructional Data

Nominal	Minimum thickness of insulation		Approximate	Minimum average	Approximate overall
cross-sectional area	Between Conductors	Between conductor and	thickness of aluminium sheath	thickness of oversheath	diameter
mm²	mm	sheath mm	mm	mm	mm
95	5.6	3.4	1.2	2.5	49.2
185	5.6	3.4	1.6	2.8	60.7
300	5.6	3.4	2.0	3.2	72.5

Insulation Data

Nominal cross-sectional area mm²	Approximate cable weight Kg/m	Minimum bending radius mm	Nominal internal diameter of ducts mm
95	3.4	600	100
185	5.2	750	100
300	7.5	900	125

Electrical Data

Nominal cross-sectional area	Maximum DC resistance of conductors at 20°C	Maximum AC resistance of conductors at 65°C	Approximate reactance at 50 Hz	Approximate Capacitance
mm²	Ohms/km	Ohms/km	Ohms/km	μF/km
95	0.320	0.379	0.087	0.450
185	0.164	0.195	0.080	0.580
300	0.100	0.120	0.077	0.710

Ratings

Nominal	Current Ratings		
cross-sectional area	Laid Direct in ground	Drawn into ducts	Laid in air
mm²	Amps	Amps	Amps
95	185	160	180
185	270	230	270
300	355	305	370

Current Rating Conditions:

Ground Temperature 15°C
Ambient temperature (air) 25°C
Depth of burial 0.8m
Thermal resistance of soil 1.2°C m/W



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