

EATS 09-12 (11kV Belted) PICAS Cables

CABLE CHARACTERISTICS



r-12D
Bending radius



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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

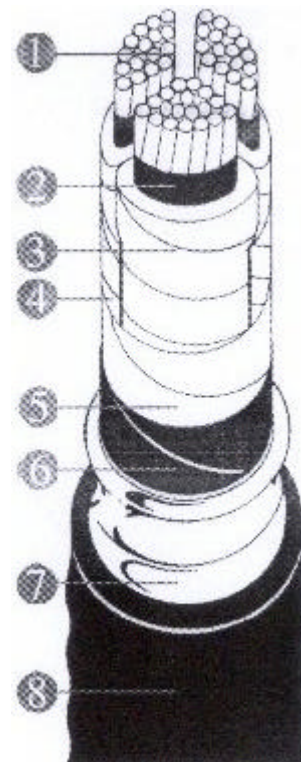
Semi-conducting carbon paper tapes applied over the belt insulation.

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 cross-sectional area mm ²	Minimum thickness of insulation		Approximate thickness of aluminium sheath mm	Minimum average thickness of oversheath mm	Approximate overall diameter mm
	Between Conductors mm	Between conductor and sheath 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 mm ²	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 mm ²	Maximum DC resistance of conductors at 20°C Ohms/km	Maximum AC resistance of conductors at 65°C Ohms/km	Approximate reactance at 50 Hz Ohms/km	Approximate Capacitance 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 cross-sectional area mm ²	Current Ratings		
	Laid Direct in ground Amps	Drawn into ducts Amps	Laid in air 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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Formerly Pirelli Cables