

# EATS 09-12 (11kV Screened) PICAS Cable

## CABLE CHARACTERISTICS



Bending radius  
R=12D



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## CABLE DESCRIPTION

### 1.CONDUCTOR

Compact 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)

### 5.INSULATION SCREEN

Semi-conducting carbon tapes applied in combination with metallised paper tapes over the core insulation. Core identification, Outer carbon papers printed with white numbers 1, 2 and 3.

### 4 & 6.LAYING UP

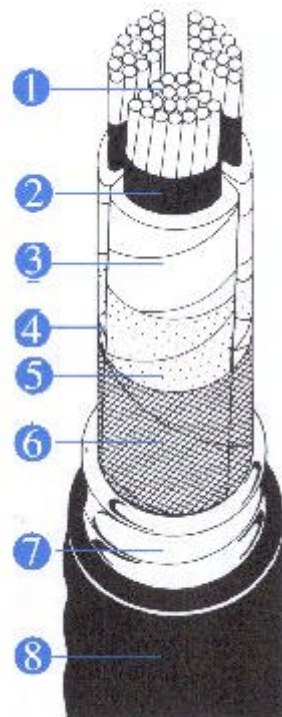
Three cores laid up with paper fillers and bound with copper woven fabric tape.

### 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 <sup>2</sup>	Minimum thickness of insulation between conductor and screen mm	Approximate thickness of aluminium sheath mm	Minimum average thickness of oversheath mm	Approximate diameter overall mm
95	2.8	1.2	2.5	49.0
185	2.8	1.6	2.8	60.7
300	2.8	2.0	3.2	72.5

## Installation Data

Nominal cross-sectional area mm <sup>2</sup>	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 <sup>2</sup>	Maximum DC resistance of phase conductors at 20°C Ohms/km	Maximum AC resistance of conductors at 65°C Ohms/km	Approximate reactance at 50Hz Ohms/km	Approximate capacitance μF/km
95	0.320	0.384	0.087	0.600
185	0.164	0.198	0.081	0.810
300	0.100	0.122	0.077	0.100

## Ratings Data

Nominal cross-sectional area mm <sup>2</sup>	Current Ratings		
	Laid direct in ground Amps	Drawn into ducts Amps	Laid in air Amps
95	205	170	200
185	295	250	305
300	380	325	410

### Current Rating Conditions:

Ground Temperature	15°C
Depth of Burial	0.8m
Ambient temperature (air)	25°C
Thermal Resistance of Soil	1.2°C m/W



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Formerly Pirelli Cables