

8212255/2023/EMP/ENE51

2.For EPC contractors only.


Drawing approval subject to valid vendor registration

FINECAB WIRES & CABLES PVT LTDGuaranteed Technical Particulars

Customer : Transmission corporation of Andhra Pradesh Limited (APTransco)			
PROJECTNAME:-		AS APPLICABLE	
PO :-			
Contractor: AS APPLICABLE			
TITLE: Power Cable			
SR. NO.	PARTICULARS		1 C X 630
	Description	Unit	Confirmation/Commitment by the Supplier/Bidder
1	Name of Manufacturer.		FINECAB WIRES & CABLES PVT LTD (BRAND NAME-FINECAB)
2	Applicable Standard.		IS : 7098 (PART-1) 1988
3	Voltage Grade.	Volts	1100
4	Permission variation in a)Voltage	%	±10
	b)Frequency	%	±5
	c) Combined	%	±10
5	Wheather Suitable for Earthed or Unearthed System		Both
6	SIZE	SQ.MM	1 C X 630
7	Type.		A2XFaY
8	Conductor :		
a.	Material		H2 GRADE ALUMINIUM AS PER IS 8130 : 2013 CLASS 2
b.	Nominal Size	SQ.MM	630
c.	Number of wires in each conductor	Nos.	61
d.	Diameter of Each Wire BEFORE STRANDING	mm	3.63
e.	Shape of conductor		STRANDED CIRCULAR
f.	DC Resistance at 20°C (MAX.)	Ohms/Km	0.0469
g.	AC Resistance at 90°C (MAX.)	Ohms/Km	0.0600
h.	Direction of lay of Conductor		RIGHT HAND LAY
a.	Material.		EXTRUDED XLPE
b.	IS Reference		IS : 7098 (PART-1) 1988
c.	Nominal Thickness.	mm	2.8
d.	Cores identification		NATURAL
e.	Cores identification		Confirming to : IS 7098 Part 1
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- acceptance tests.
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10	Armouring		
a.	Material & Type		ALUMINIUM FLAT STRIP
b.	Extruded OR Wrapped		Wrapped
c.	IS Reference		IS: 7098(P-1)1988
d.	Nominal Diameter	mm	4X0.8
e.	MINIMUM FICTITIOUS DIAMETER OVER ARMOURED	mm	35.50
f.	Direction of lay of armour		LEFT HAND LAY
g.	Min . Coverage of armour		upto 90 %
11	Outer Sheath		
a.	Material.		EXTRUDED PVC
b.	Type.		ST-2 WITH FRLS PROPERTIES
c.	IS Reference		IS : 5831 - 1984
d.	Minimum Thickness	mm	1.72
e.	Colour		BLACK
f.	MINIMUM FICTITIOUS DIAMETER OVER OUTER SHEATH	mm	38.94
12	FRLS PROPERTIES		
a.	Oxygen Index (Minimum)	%	29
b.	Temperature index (Minimum)	Deg C	250
c.	Smoke Density (Maximum)	%	60
d.	Acid Gas Generation (HCL%) (Maximum)	%	20
e.	Flamibility Test a.Unefected Portion (min.)	mm	50
	b. Flame Duration (Max.)	sec.	60
	Insulation		
	d) Minimum volume resistivity at (ohm-cm)		
	(i) 27 deg. C.		1×10^{14}
	(ii) 70 deg. C.		NA
	(iii) 90 deg. C.		1×10^{12}
	Minimum tensile - strength of insulation	N/mm ²	12.5(min)as per IS 7098(Part-1):1988
	Minimum elongation at break	%	200(min)as per IS 7098(Part-1):1988
	Minimum tensile - strength of sheath	N/mm ²	12.5(min)as per IS 5831:1984
	Minimum elongation at break	%	150(min)as per IS 5831:1984
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