



TECHNICAL DATA SHEET

1C X 6.0 Sq. mm. XLPE Insulated & UV Stabilized HR PVC Sheathed (105 Deg. C.), Photovoltaic Cable (Solar Cable) with Multistrand Flexible Tinned Copper conductor (Class-5) for working voltage up to including 1.5 KV DC.

SR. NO.	DESCRIPTION	UNIT	1C X 6.0 SQ.MM.
1.	MAKE		DUSOL
2.	STANDARD APPLICABLE		
3.	RATED VOLTAGE	VOLT	1.5 KV DC
4.	SUITABLE FOR EARTHED UNEARTHED SYSTEM		
	CONSTRUCTIONAL DETAILS		
5.	CONDUCTOR		MULTISTRAND FLEXIBLE TINNED COPPER (CLASS - 5). EC GRADE
	NUMBERS OF WIRES AND DIAMETER	NOS./MM	84 X 0.285 (+/- 0.002 mm)
6.	SHAPE SECTOR OF CONDUCTOR		CIRCULAR
7.	INSULATION		
	A) COMPOSITION OF INSULATION		XLPE INSULATION
	B) NOMINAL THICKNESS OF XLPE INSULATION	MM	0.70
	C) APPROX DIAMETER OF INSULATION CORE	MM	4.60
	D) COLOUR SCHEME FOR IDENTIFICATION		RED AND BLACK
9.	OUTER SHEATH		
	A) MATERIAL		UV STABILIZED HR PVC (105 DEG. C.)
	B) THICKNESS OF THE OUTER SHEATH (NOM.)	MM	0.90
	C) OUTER SHEATH COLOUR		RED OR BLACK
	D) APPROX OVERALL DIA. OF CABLE (+/- 1.0 MM)	MM	6.50



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10.	ELECTRICAL CHARACTERISTICS		
	A.) MAX. D.C. RESISTANCE AT DEG.C	OHM/KM MAX.	3.39
	B.) MAX. PERMITTED DC VOLATAGE	KV	1.8 KV (CONDUCTOR / CONDUCTOR , NON EARTHED SYSTEM,;CIRCUIT NOT UNDER LAOD.)
	C.) MAX. PERMITTED AC VOLTAGE	KV	0.7 / 1.2 KV AC
	D.) WORKING VOLTAGE	V	1000 V DC
11.	THERMAL CHARACTERISTICS		
	A.) MAX. TEMPERATURE AT CONDUCTOR	DEG.C.	90
	B.) SHORT CIRCUIT TEMPERATURE	DEG.C.	250
12.	CURRENT CARRYING CAPACITY @ 40°C		
	A.) SINGLE CABLE IN AIR	AMP	58
	B.) SINGLE CABLE ON SURFACE	AMP	55
	C.) 2 ADJACENT CABLES ON SURFACE	AMP	46
13.	GENERAL		
	STANDARD LENGTH OF CABLE (SUBJECT TO A MANUFACTURE OF / - 5%)	METER	500 / 1000 MTR DRUM

Note : Computer generated documents no signature is required.

Sole Distributors - Apex Power Concepts,

Near Baniyas Metro Station,

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