DUSOL
Made in Dubai
U.A.E

DuSol PV modules are proudly manufactured using state of the art machines using high quality raw-materials

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Superior Durability , High Efficiency

TECHNICAL DATA SHEET

1C X 10.0 Sq. mm. XLPE Insulated & UV Stabilized HR PVC Sheathed (105 Deg. C.), Photovoltaic Cable (Solar Cable) with Mulistrand Flexible Tinned Copper conductor (Class-5) for working voltage up to including 1.5 KV DC.

SR. NO.	DESCRIPTION	UNIT	1C X 10.0 SQ.MM.
1.	MAKE		DUSOL
2.	STANDARD APPLICABLE		
3.	RATED VOLTAGE	VOLT	1.5 KV DC
4.	SUITABLE FOR EARTHED OR UNEARTHED SYSTEM		
	CONSTRUCTIONAL DETAILS		
5.	**CONDUCTOR**		MULTISTRAND FLEXIBLE TINNED COPPER (CLASS - 5). EC GRADE
	NUMBERS OF WIRES AND DIAMETER	NOS./MM	140 X 0.285 (+/ - 0.002 mm)
6.	SHAPE SECTOR OF CONDUCTOR		CIRCULAR
7.	**INSULATION**		
	A) COMPOSITION OF INSULATION		**XLPE INSULATON**
	B) NOMINAL THICKNESS OF INSULATION	MM	0.70
	C) APPROX DIAMETER OF INSULATION CORE	MM	5.60
	D) MIN. VOLUME RESISTIVITY AT 27 DEG. C.	OHM-CM	**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 (+/ - 0.50 MM)	MM	7.50

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10.	ELECTRICAL CHARACTERISTICS		
	A.) MAX. D.C. RESISTANCE AT 20 DEG.C	OHM/KM MAX.	1.95
	B.) MAX. PERMITTED DC VOLATAGE	KV	**1.8 KV (CONDUCTOR/ CONDUCTOR, NON EARTHED SYSTEM CIRCUTT NOT UNDER LAOD.)**
	C.) MAX. PERMITTED AC VOLATAGE	V	**0.7 / 1.2 KV AC**
	D.) WORKING VOLATAGE	MAX.	**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	80
	B.) SINGLE CABLE ON SURFACE	AMP	76
	C.) 2 SINGLE CABLE ON SURFACE	AMP	64
13.	GENERAL		
	A) STANDARD LENGTH OF CABLE (SUBJECT TO A MANUFACTURE OF +/- 5%)	METER	500 / 1000 MTR DRUM

Note :

Computer generated documents no signature is required .As per international practice which is also adopted by Bureau of Indian Standards.The diameter of the conductor shown above in nominal. The Size of the conductor is determined by its resistance. The construction of the conductor is as per market convention and should be treated as a guideline only it may vary within the limits of IS : 8130-1984.

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