

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



1C X 35.0 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 35.0 SQ.MM. |
|---------|--|---------|--|
| 1. | MAKE | | KWC |
| 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 |
| 6. | NUMBERS OF WIRES AND DIAMETER | nos./мм | 490 X 0.285 (+/- 0.005 mm) |
| 7. | SHAPE SECTOR OF CONDUCTOR | | CIRCULAR |
| 8. | INSULATION | | |
| | A) COMPOSITION OF INSULATION | | XLPE INSULATON |
| | B) NOMINAL THICKNESS OF XLPE INSULATION | MM | 0.90 |
| | C) APPROX DIAMETER OF INSULATION CORE | MM | 9.50 |
| | D) COLOUR SCHEME FOR INDENTIFICATION | | RED AND BLACK |
| 9. | OUTER SHEATH | | |
| | A) MATERIAL | | UV STABILIZED HR PVC (105 DEG. C.) |
| | B) THICKNESS OF THE OUTER SHEATH (NOM.) | MM | 1.10 |
| | C) OUTER SHEATH COLOUR | | RED OR BLACK |
| | D) APPROX OVERALL DIA. OF CABLE (+/- 1.0 MM) | MM | 12.00 |



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|---------|--|----------------|--|
| 10. | ELECTRICAL CHARACTERISTICS | | KWC |
| | A.) MAX. D.C. RESISTANCE AT 20 DEG.C | OHM/KM MAX. | 0.565 |
| | 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 | 173 |
| | B.) SINGLE CABLE ON SURFACE | АМР | 164 |
| | C.) 2 ADJACENT CABLES ON SURFACE | АМР | 138 |
| 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.

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.