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|  Scientific And industrial Testing and Research Centre, Coimbatore-641006 | Electrical Testing Laboratory | | Code No. |
| | SERVICE REQUEST FORM | | |
| | Tests as per IS-7098-(Part-1)-1988 Cross linked Polyethylene Insulated thermoplastic Sheathed cables Part - 1 for working voltages up to and including 1100 V | | |


Description of Sample

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|--|--|-------------------------|---------|-----------------------|----------------|---------------------|---|
| Name of the test sample | Cross linked Polyethylene Insulated thermo plastic Sheathed cables for working voltages up to and including 1100 V | | | | | | |
| Make / Brand | | # Size / Sectional area | | # Type of Insulation | XLPE | Type of Cable | |
| Voltage Grade | | No. of Core(s) | | # Type of Sheath | ST1 / ST2 /ST3 | Cable code Letter | A/ 2X/ W/ Wa / F / Fa / FF /WW / Y (No need if Cu.) |
| Conductor Material | Cu / Al | # Class of Conductor | 1/2/5/6 | Year of Manufacturing | | Gross Mass (Approx) | |
| # Grade for Aluminium | 0/H2/H4 | Length of cable in m | | Ref.Std No. | 8130/ 5831 | IS Marking | |
| "Suitable for outdoor use" OR "Suitable for low temperature" | | | | | | | |
| Shape of the conductor | 1. Solid Circular copper / Al conductor 2. Stranded circular non compacted conductors 3. Stranded Compacted circular conductors and shaped conductor | | | | | | |
| Required length | For complete type test Upto & including 25 Sq.mm 22 metre length, Above 25 sq.mm 27 metre length | | | | | | |

Test Requirements

| Sl. No. | Name of the test | Test Requit | Sl. No. | Name of the test | Test Requit |
|---------|--|-------------|--|---|-------------|
| 1. | Conductor resistance test(CI 15.1.a iv) Required Length : 10 m | | 2. | Wrapping Test (CI 15.2. c) (for Aluminum) Required Length : 1m | |
| 3. | Annealing Test (CI 15.1 a.i) Elongation (for copper) (before standing) Required Length : 1.25 m | | 4. | Insulation resistance test (Volume Resistivity) (CI 15.1.f) Required Length : 3 m | |
| 5. | Tensile test (CI 15.2 .b) (for Aluminium) Required Length :1.25 m | | 6. | High Voltage Test (at room temperature test) (CI 16.3) Required Length : 3 m | |
| 7. | <u>Physical test for insulation</u> (CI 15.1.d) | | <u>Physical test for outer Sheath</u> (CI15.1.e) | | |

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|---|-------------|--------------------|-------------|
| Name and Address of the Customer in Test Report | | Ref Doc. Details : | |
| Name and Address of the Customer in Invoice | | Contact Person : | |
| | | Phone No. | |
| MIN No. | | Date | |
| For Si'Tarc | | For Customer | |
| Date: | Sign & Name | Date: | Sign & Name |

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| Sl. No. | Name of the test | Test Requit | Sl. No. | Name of the test | Test Requit |
|---|---|-------------|---------|---|-------------|
| | Without Ageing Required Length :1.5 m i)Tensile strength | | 8. | Without Ageing Required Length : 1.5 m i)Tensile strength | |
| | Elongation at Break | | | Elongation at Break , | |
| | | | 9. | ii) Loss of mass test Required Length : 660 mm | |
| 10. | iii)After Ageing in air oven Required Length : 1.5 m Tensile Strength variation | | 11. | iii)After Ageing in air oven Required Length : 1.5 m Tensile Strength | |
| | Elongation at Break variation | | | Elongation at Break | |
| 12. | iv) Shrinkage Test Required Length : 660 mm | | 13. | iv) Shrinkage Test Required Length : 660 mm | |
| 14. | v) water absorption Required Length : 900 mm | | 15. | v) Heat Shock Test Required Length : 300 mm | |
| 16. | Thickness of insulation(cl15.1.c) Required Length : 300 mm | | 17. | vi) Hot deformation Test Required Length : 100 mm | |
| 18. | Thickness of sheath (cl15.1.c) Required Length : 300 mm | | | | |
| Y- Required ,NR – Not Required, ND – Not Described, Put Y or NR for test requirements, method of test IS 10810 | | | | | |

Note:

- 1) Kindly issue separate SRF Form for each sample
- 2) Marked with an # are Mandatory Fields

SLFEL065 / 01-04 / 01-20

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| Name and Address of the Customer in Test Report | | Ref Doc. Details : | |
| Name and Address of the Customer in Invoice | | Contact Person : | |
| | | Phone No. | |
| MIN No. | | Date | |
| For Si'Tarc | | For Customer | |
| Date: | Sign & Name | Date: | Sign & Name |