

ELECTRICAL RESEARCH AND DEVELOPMENT ASSOCIATION

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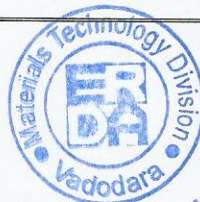
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| TEST REPORT | | SHEET 1 of 2 |
|--|--|------------------------------|
| NAME & ADDRESS OF CUSTOMER M/s KEC International Ltd. # 349, Hebbal Industrial Area, Hootagalli, Belavadi Post, Mysore - 570 018. (Karnataka) | REPORT No DATE | RP-1314-010941 28-9-2013 |
| | CUSTOMER REF No DATED | Nil 03-9-2013 |
| | DATE OF SAMPLE RECEIPT | DATES OF TESTING |
| | 06-9-2013 | 11-9-2013 to 28-9-2013 |
| SAMPLE DESCRIPTION Dumbbell shape specimens prepare from 1Pair x 0.5 sq. mm. Cu conductor, PVC insulated, FR outer sheathed, 500V Instrumentation cable. Cable Identification No.: 13P1314 | SAMPLE IDENTIFICATION ERDA SAMPLE CODE: ERDA-00017031 | |
| No. TEST DETAILS | TEST SPECIFICATION | |
| 1. Exposure to UV radiation | ASTM G 154-06 | |
| 2. Tensile strength and elongation before and after exposure | IS:10810 (Pt.7)-1984 (Method of test) | |
| <i>Silbhet</i> PREPARED BY | <i>hmt</i> CHECKED BY | <i>Arvind</i> APPROVED BY |
| Note: | 1. This report relates only to the particular sample received for testing in good condition at ERDA 2. This report cannot be reproduced in part under any circumstances 3. Publication of this report requires prior permission in writing from Director, ERDA 4. Only the tests asked for by the customer have been carried out. 5. In case of any dispute, Vadodara will be the exclusive jurisdiction & shall be construed as where the cause has arised. | |
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| REPORT No. RP-1314-010941 | | DATE: 28-9-2013 | | SHEET 2 of 2 | |
|---------------------------|---|-----------------------------------|---|--------------|--|
| Sr. No | Particular of tests & Cl. No. | Requirements as per specification | Light source/ exposure details/ Obtained value | Remarks | |
| 1. | Exposure to UV radiation Cl. No. 9 Exposure device used Light source | -- -- | UVTEST, ATLAS Fluorescent UV lamps-UVB - 313 | -- -- | |
| | Typical irradiance, W/m ² /nm | -- | 0.71 | -- | |
| | - Exposure cycle | -- | 2 | -- | |
| | - UV | -- | 4 h | -- | |
| | - Black Panel Temperature, °C | -- | 60 ± 3 | -- | |
| | - Condensation | -- | 4 h | -- | |
| | - Black Panel Temperature, °C | -- | 50 ± 3 | -- | |
| | - Total exposure time, days | -- | 14* | -- | |
| 2. | Tensile strength and elongation at break before and after exposure Cl. No. 8 | | | | |
| | - Tensile strength, N/mm ² | | | | |
| | - Before Exposure | -- | 13.8 | -- | |
| | - After Exposure | -- | 13.0 | -- | |
| | - Retention, % | -- | 95 | -- | |
| | - Elongation at break, % | | | | |
| | - Before Exposure | -- | 213 | -- | |
| | - After Exposure | -- | 193 | -- | |
| | - Retention, % | -- | 91 | -- | |

* As specified by the customer.

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