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Project Number: G100283649  
Certificate of Conformance Number: 100324722CRT-001f

Date Issued: 7/28/2011

**Test Report Number: G100283649CRT-011h**



Applicant:  
Nexans Inc.  
dba Berk-Tek  
132 White Oak Road  
New Holland, PA 17557  
Applicant Contact: Mr. Joel Fasnacht

Manufacturer:  
Nexans Inc.  
dba Berk-Tek  
132 White Oak Road  
New Holland, PA 17557USA  
Mfg. Contact: Mr. Joel Fasnacht

Dear Mr. Joel Fasnacht;

Intertek is pleased to provide this letter report covering the testing of one (1) 4 Pair, 23 AWG, UTP, CMP, Plenum, Horizontal (solid) Cable, Part Number: 10136230 LANmark-6. The sample was selected from your manufacturer facility, Nexans Inc. DBA Berk-Tek, by the Intertek Inspector Mr. Ronald Williams on 7/21/2011, for Quarter 3 2011 Quarterly Follow-up Testing.

The testing was performed at Intertek located in Cortland, NY on 7/26/2011, to the ANSI/TIA-568-C.2, LANmark-6, and ISO/IEC 11801 Category 6 specifications and did comply with the applicable requirements of the specifications.

We have appreciated this opportunity to be of service to you. If there are any questions regarding this letter or any other services offered by Intertek, Please do not hesitate to contact us.

Refer to Appendix A for test summary results

Sincerely,

*Kathy Heath*  
Kathy Heath  
Program Coordinator  
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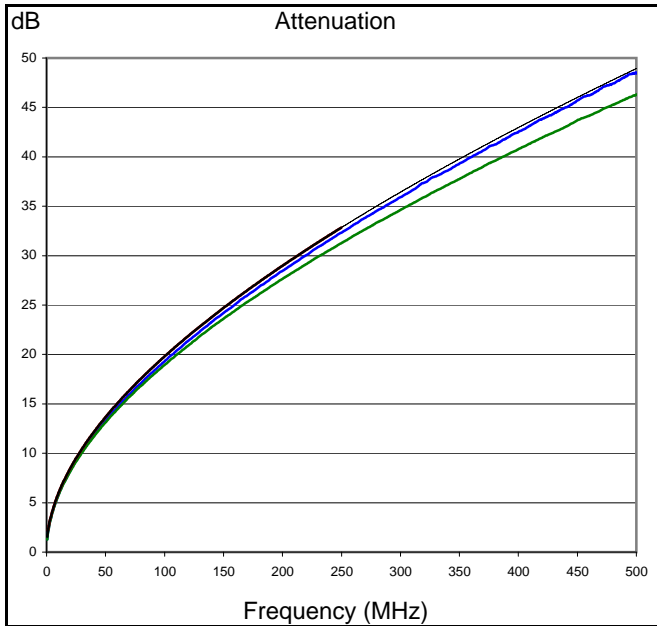
Appendix A

Test Results

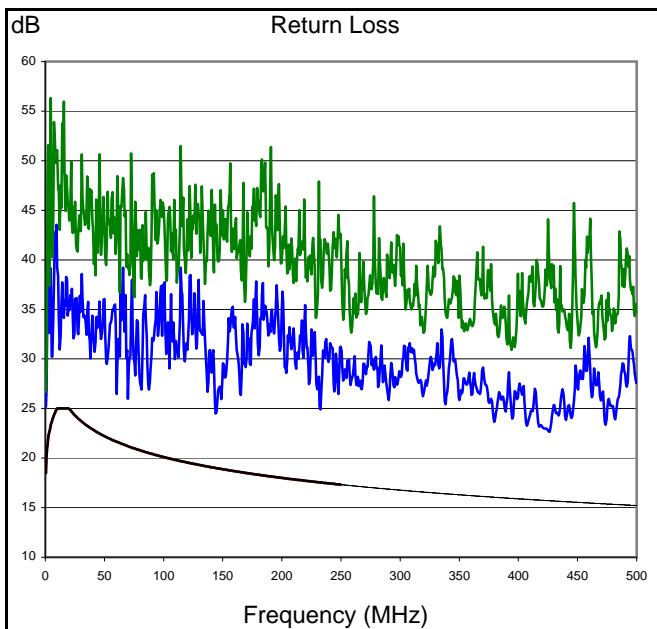
Summary

**Client** Nexans Inc., DBA Berk-Tek  
**Specifications** Berk-Tek LANmark-6  
 ANSI/TIA-568-C.2, Category 6  
 ISO/IEC 11801, Category 6  
**Part Number** 10136230  
**Description** **Berk-Tek LANmark-6 CMP**  
 4X23 UTP-CMP-Solid

**Test Started** 7/26/2011 10:37  
**Technician** John Cash  
**Report No.** 100283649CRT-011h  
**Length (m)** 100  
**Temperature** 20 °C  
**Test Status** **PASS**



| Attenuation         |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 2.0        | 1.9     | 2.0          | 2.0      | N/A          |
| 4                   | 3.6        | 3.6     | 3.8          | 3.8      | 3.8          |
| 8                   | 5.2        | 5.1     | 5.3          | 5.3      | 5.4          |
| 10                  | 5.8        | 5.8     | 6.0          | 6.0      | 6.0          |
| 16                  | 7.4        | 7.3     | 7.6          | 7.6      | 7.6          |
| 20                  | 8.2        | 8.1     | 8.5          | 8.5      | 8.5          |
| 25                  | 9.3        | 9.2     | 9.5          | 9.5      | 9.6          |
| 31.25               | 10.4       | 10.3    | 10.7         | 10.7     | 10.7         |
| 62.5                | 14.9       | 14.7    | 15.4         | 15.4     | 15.5         |
| 100                 | 19.3       | 19.0    | 19.8         | 19.8     | 19.9         |
| 250                 | 32.3       | 31.3    | 32.8         | 32.8     | 33.0         |
| 350                 | 39.3       | 37.7    |              |          |              |
| 500                 | 48.5       | 46.3    |              |          |              |
| Limit Margin (dB) : |            |         | 0.14         | 0.14     | 0.19         |
| Frequency (MHz) :   |            |         | 3.93         | 3.93     | 5.31         |



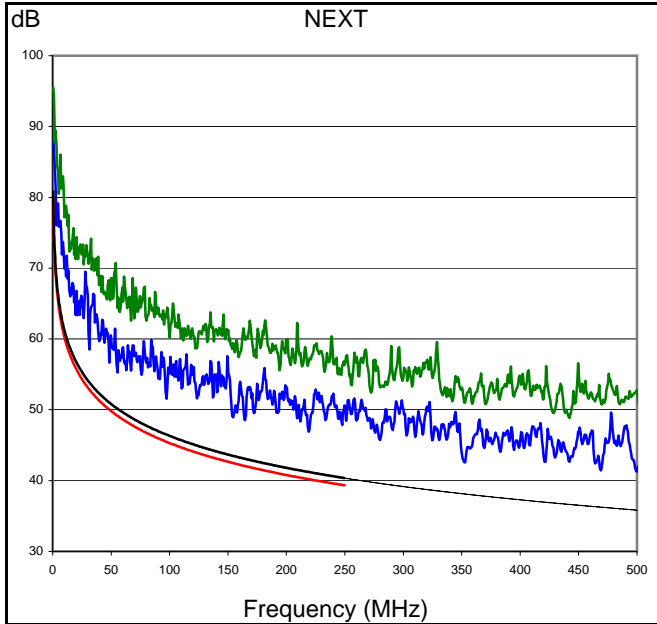
| Return Loss         |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 27.0       | 29.1    | 20.0         | 20.0     | N/A          |
| 4                   | 34.1       | 49.7    | 23.0         | 23.0     | 23.0         |
| 8                   | 42.8       | 52.0    | 24.5         | 24.5     | 24.5         |
| 10                  | 39.2       | 51.0    | 25.0         | 25.0     | 25.0         |
| 16                  | 35.9       | 48.7    | 25.0         | 25.0     | 25.0         |
| 20                  | 35.4       | 45.1    | 25.0         | 25.0     | 25.0         |
| 25                  | 36.1       | 45.9    | 24.3         | 24.3     | 24.3         |
| 31.25               | 36.3       | 46.4    | 23.6         | 23.6     | 23.6         |
| 62.5                | 32.0       | 44.5    | 21.5         | 21.5     | 21.5         |
| 100                 | 34.0       | 45.2    | 20.1         | 20.1     | 20.1         |
| 250                 | 31.2       | 42.6    | 17.3         | 17.3     | 17.3         |
| 350                 | 26.1       | 34.1    |              |          |              |
| 500                 | 27.6       | 35.5    |              |          |              |
| Limit Margin (dB) : |            |         | 4.80         | 4.80     | 4.80         |
| Frequency (MHz) :   |            |         | 69.87        | 69.87    | 69.87        |

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

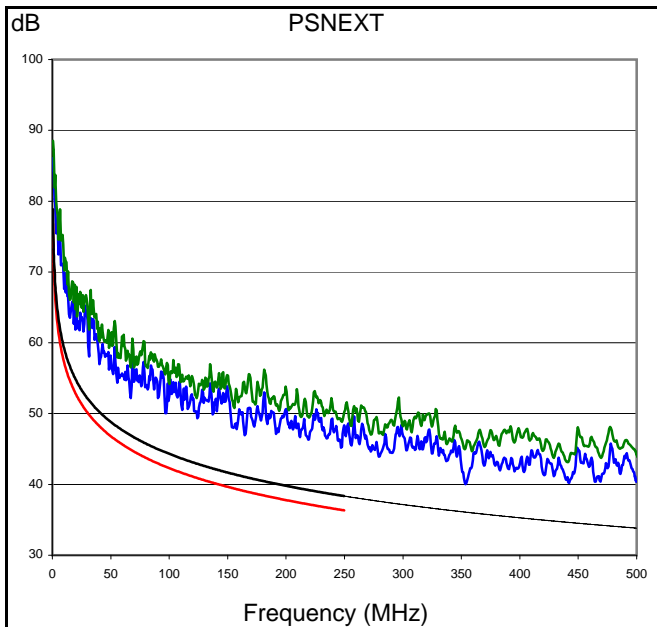
Summary

**Client** Nexans Inc., DBA Berk-Tek  
**Specifications** Berk-Tek LANmark-6  
 ANSI/TIA-568-C.2, Category 6  
 ISO/IEC 11801, Category 6  
**Part Number** 10136230  
**Description** **Berk-Tek LANmark-6 CMP**  
 4X23 UTP-CMP-Solid

**Test Started** 7/26/2011 10:37  
**Technician** John Cash  
**Report No.** 100283649CRT-011h  
**Length (m)** 100  
**Temperature** 20 °C  
**Test Status** **PASS**



| NEXT                |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 87.1       | 94.1    | 76.3         | 74.3     | N/A          |
| 4                   | 79.1       | 84.4    | 67.3         | 65.3     | 66.3         |
| 8                   | 72.0       | 81.3    | 62.8         | 60.8     | 61.8         |
| 10                  | 69.9       | 77.2    | 61.3         | 59.3     | 60.3         |
| 16                  | 66.4       | 73.8    | 58.3         | 56.2     | 57.2         |
| 20                  | 63.4       | 71.2    | 56.8         | 54.8     | 55.8         |
| 25                  | 64.4       | 72.0    | 55.3         | 53.3     | 54.3         |
| 31.25               | 58.5       | 71.3    | 53.9         | 51.9     | 52.9         |
| 62.5                | 56.5       | 67.7    | 49.4         | 47.4     | 48.4         |
| 100                 | 55.1       | 60.2    | 46.3         | 44.3     | 45.3         |
| 250                 | 50.6       | 56.3    | 40.3         | 38.3     | 39.3         |
| 350                 | 44.7       | 52.8    |              |          |              |
| 500                 | 41.3       | 52.7    |              |          |              |
| Limit Margin (dB) : |            |         | 4.67         | 6.69     | 5.69         |
| Frequency (MHz) :   |            |         | 31.41        | 31.41    | 31.41        |



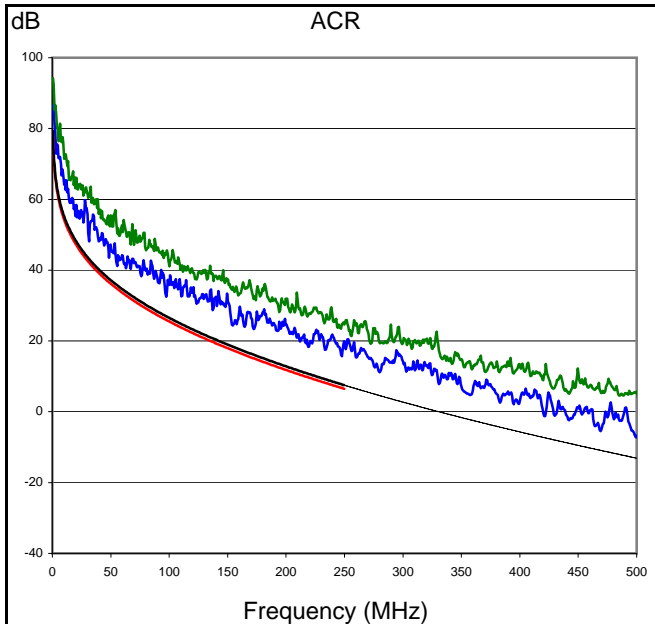
| PSNEXT              |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 84.3       | 87.2    | 74.3         | 72.3     | N/A          |
| 4                   | 76.7       | 78.8    | 65.3         | 63.3     | 63.3         |
| 8                   | 71.1       | 74.5    | 60.8         | 58.8     | 58.8         |
| 10                  | 67.6       | 70.2    | 59.3         | 57.3     | 57.3         |
| 16                  | 65.2       | 67.9    | 56.3         | 54.2     | 54.2         |
| 20                  | 61.8       | 64.8    | 54.8         | 52.8     | 52.8         |
| 25                  | 63.6       | 64.9    | 53.3         | 51.3     | 51.3         |
| 31.25               | 58.1       | 61.9    | 51.9         | 49.9     | 49.9         |
| 62.5                | 54.8       | 59.5    | 47.4         | 45.4     | 45.4         |
| 100                 | 52.6       | 54.2    | 44.3         | 42.3     | 42.3         |
| 250                 | 48.3       | 50.2    | 38.3         | 36.3     | 36.3         |
| 350                 | 43.5       | 46.7    |              |          |              |
| 500                 | 40.4       | 44.3    |              |          |              |
| Limit Margin (dB) : |            |         | 5.27         | 7.28     | 7.28         |
| Frequency (MHz) :   |            |         | 67.13        | 67.13    | 67.13        |

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

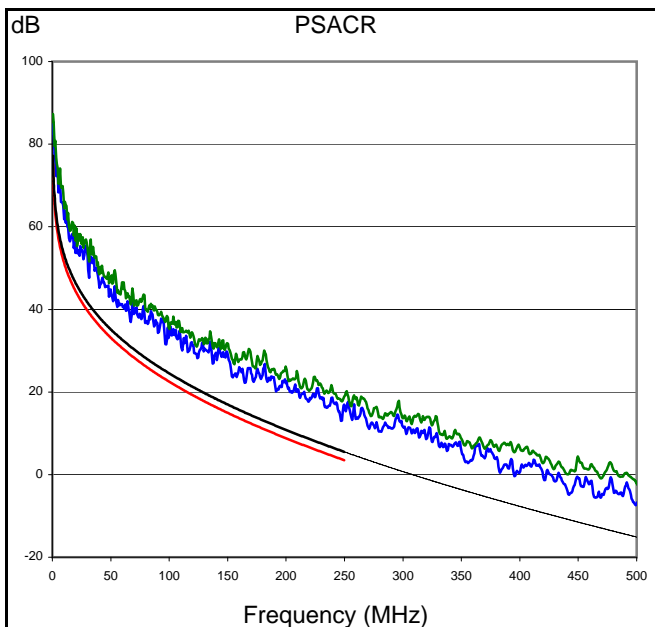
Summary

**Client** Nexans Inc., DBA Berk-Tek  
**Specifications** Berk-Tek LANmark-6  
 ANSI/TIA-568-C.2, Category 6  
 ISO/IEC 11801, Category 6  
**Part Number** 10136230  
**Description** **Berk-Tek LANmark-6 CMP**  
 4X23 UTP-CMP-Solid

**Test Started** 7/26/2011 10:37  
**Technician** John Cash  
**Report No.** 100283649CRT-011h  
**Length (m)** 100  
**Temperature** 20 °C  
**Test Status** **PASS**



| ACR                 |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 85.2       | 92.2    | 74.3         | 72.3     | N/A          |
| 4                   | 75.6       | 80.8    | 63.5         | 61.5     | 62.4         |
| 8                   | 66.8       | 76.1    | 57.4         | 55.4     | 56.4         |
| 10                  | 64.1       | 71.4    | 55.4         | 53.3     | 54.3         |
| 16                  | 59.1       | 66.4    | 50.7         | 48.7     | 49.6         |
| 20                  | 55.2       | 63.1    | 48.3         | 46.3     | 47.3         |
| 25                  | 55.2       | 62.8    | 45.8         | 43.8     | 44.8         |
| 31.25               | 48.1       | 61.0    | 43.2         | 41.2     | 42.1         |
| 62.5                | 41.6       | 53.0    | 34.0         | 32.0     | 32.9         |
| 100                 | 35.8       | 41.1    | 26.5         | 24.5     | 25.4         |
| 250                 | 19.9       | 24.7    | 7.5          | 5.5      | 6.3          |
| 350                 | 7.9        | 14.6    |              |          |              |
| 500                 | -7.2       | 5.7     |              |          |              |
| Limit Margin (dB) : |            |         | 4.97         | 6.98     | 6.05         |
| Frequency (MHz) :   |            |         | 31.41        | 31.41    | 31.41        |



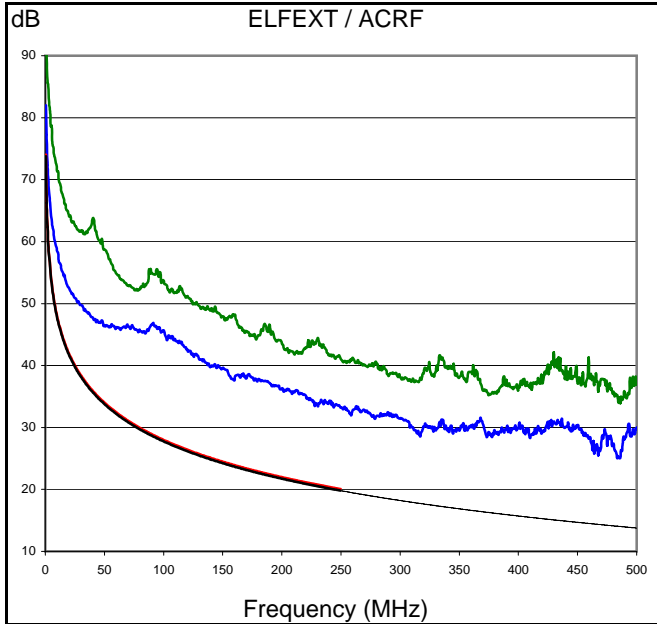
| PSACR               |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 82.4       | 85.3    | 72.3         | 70.3     | N/A          |
| 4                   | 73.1       | 75.2    | 61.5         | 59.5     | 59.4         |
| 8                   | 66.0       | 69.4    | 55.4         | 53.4     | 53.4         |
| 10                  | 61.8       | 64.5    | 53.4         | 51.3     | 51.3         |
| 16                  | 57.9       | 60.6    | 48.7         | 46.7     | 46.6         |
| 20                  | 53.7       | 56.7    | 46.3         | 44.3     | 44.3         |
| 25                  | 54.4       | 55.7    | 43.8         | 41.8     | 41.8         |
| 31.25               | 47.7       | 51.6    | 41.2         | 39.2     | 39.1         |
| 62.5                | 40.2       | 44.9    | 32.0         | 30.0     | 29.9         |
| 100                 | 33.8       | 35.2    | 24.5         | 22.5     | 22.4         |
| 250                 | 17.0       | 18.9    | 5.5          | 3.5      | 3.3          |
| 350                 | 6.7        | 8.9     |              |          |              |
| 500                 | -7.3       | -2.0    |              |          |              |
| Limit Margin (dB) : |            |         | 5.97         | 7.99     | 8.08         |
| Frequency (MHz) :   |            |         | 67.13        | 67.13    | 67.13        |

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

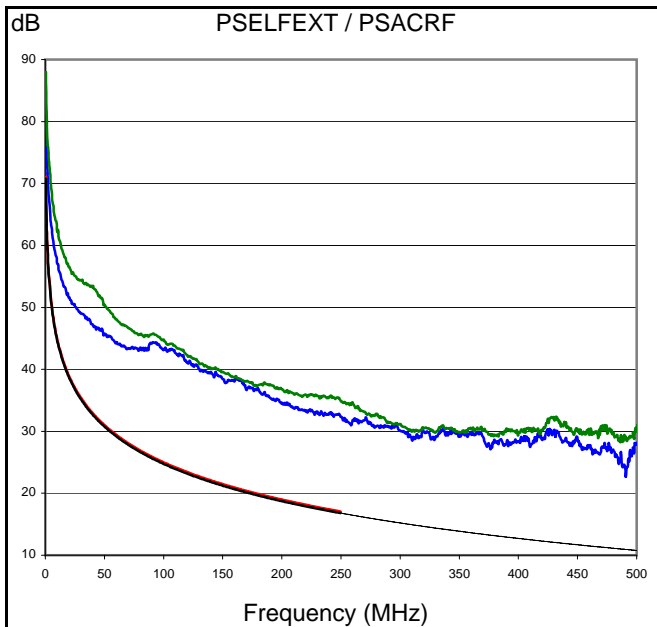
Summary

**Client** Nexans Inc., DBA Berk-Tek  
**Specifications** Berk-Tek LANmark-6  
 ANSI/TIA-568-C.2, Category 6  
 ISO/IEC 11801, Category 6  
**Part Number** 10136230  
**Description** **Berk-Tek LANmark-6 CMP**  
 4X23 UTP-CMP-Solid

**Test Started** 7/26/2011 10:37  
**Technician** John Cash  
**Report No.** 100283649CRT-011h  
**Length (m)** 100  
**Temperature** 20 °C  
**Test Status** **PASS**



| ELFEXT / ACRF       |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 77.2       | 90.0    | 67.8         | 67.8     | N/A          |
| 4                   | 66.2       | 81.0    | 55.7         | 55.8     | 56.0         |
| 8                   | 60.1       | 73.6    | 49.7         | 49.7     | 49.9         |
| 10                  | 58.4       | 71.3    | 47.8         | 47.8     | 48.0         |
| 16                  | 54.6       | 66.1    | 43.7         | 43.7     | 43.9         |
| 20                  | 52.6       | 64.4    | 41.7         | 41.8     | 42.0         |
| 25                  | 50.8       | 62.5    | 39.8         | 39.8     | 40.0         |
| 31.25               | 49.7       | 61.8    | 37.9         | 37.9     | 38.1         |
| 62.5                | 46.2       | 54.5    | 31.8         | 31.9     | 32.1         |
| 100                 | 45.7       | 53.7    | 27.8         | 27.8     | 28.0         |
| 250                 | 33.2       | 41.1    | 19.8         | 19.8     | 20.0         |
| 350                 | 29.7       | 38.0    |              |          |              |
| 500                 | 29.7       | 36.9    |              |          |              |
| Limit Margin (dB) : |            |         | 10.03        | 9.98     | 10.05        |
| Frequency (MHz) :   |            |         | 1.87         | 1.87     | 5.31         |



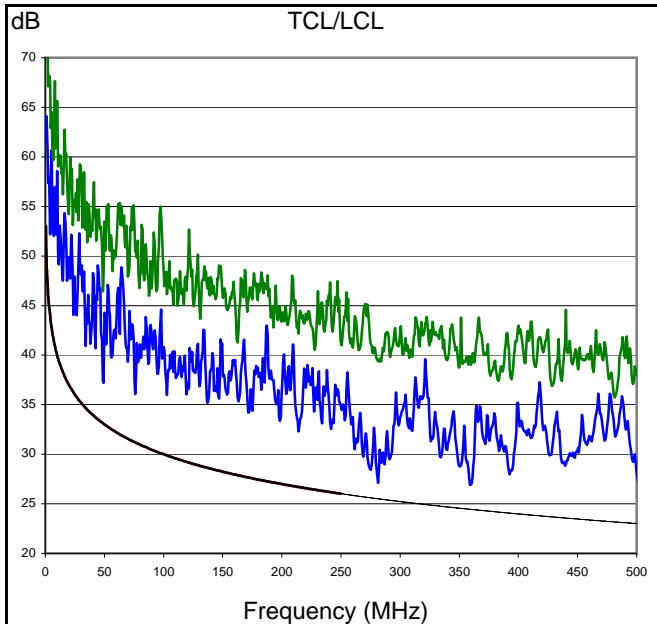
| PSELFEXT / PSACRF   |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 76.4       | 81.5    | 64.8         | 64.8     | N/A          |
| 4                   | 65.4       | 71.6    | 52.7         | 52.8     | 53.0         |
| 8                   | 59.1       | 64.6    | 46.7         | 46.7     | 46.9         |
| 10                  | 57.1       | 62.2    | 44.8         | 44.8     | 45.0         |
| 16                  | 53.3       | 58.1    | 40.7         | 40.7     | 40.9         |
| 20                  | 51.6       | 56.6    | 38.7         | 38.8     | 39.0         |
| 25                  | 50.1       | 55.0    | 36.8         | 36.8     | 37.0         |
| 31.25               | 49.0       | 54.5    | 34.9         | 34.9     | 35.1         |
| 62.5                | 44.0       | 47.7    | 28.8         | 28.9     | 29.1         |
| 100                 | 43.1       | 44.8    | 24.8         | 24.8     | 25.0         |
| 250                 | 32.3       | 35.0    | 16.8         | 16.8     | 17.0         |
| 350                 | 29.1       | 29.8    |              |          |              |
| 500                 | 28.0       | 29.9    |              |          |              |
| Limit Margin (dB) : |            |         | 12.32        | 12.27    | 12.07        |
| Frequency (MHz) :   |            |         | 4.62         | 4.62     | 4.62         |

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

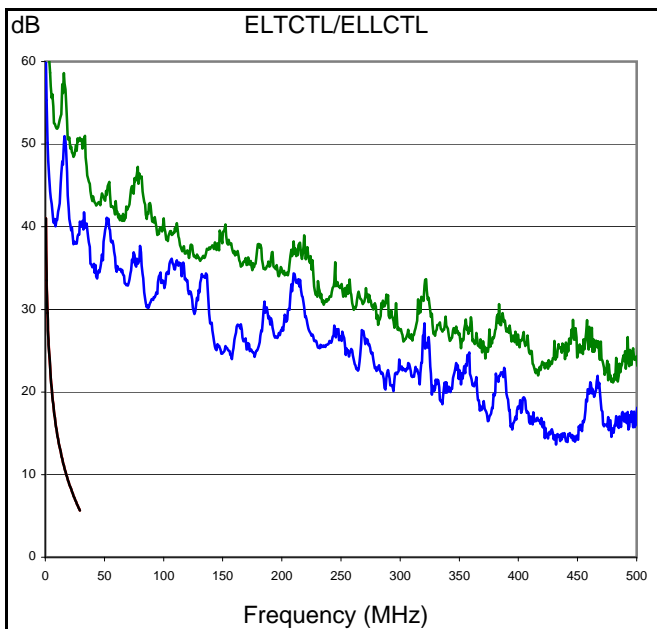
Summary

**Client** Nexans Inc., DBA Berk-Tek  
**Specifications** Berk-Tek LANmark-6  
 ANSI/TIA-568-C.2, Category 6  
 ISO/IEC 11801, Category 6  
**Part Number** 10136230  
**Description** **Berk-Tek LANmark-6 CMP**  
 4X23 UTP-CMP-Solid

**Test Started** 7/26/2011 10:37  
**Technician** John Cash  
**Report No.** 100283649CRT-011h  
**Length (m)** 100  
**Temperature** 20 °C  
**Test Status** **PASS**



| TCL/LCL             |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 64.1       | 74.1    | 50.0         | 40.0     | 50.0         |
| 4                   | 52.2       | 67.7    | 44.0         | 40.0     | 44.0         |
| 8                   | 57.0       | 67.6    | 41.0         | 40.0     | 41.0         |
| 10                  | 58.6       | 65.7    | 40.0         | 40.0     | 40.0         |
| 16                  | 54.3       | 62.7    | 38.0         | 38.0     | 38.0         |
| 20                  | 49.9       | 54.2    | 37.0         | 37.0     | 37.0         |
| 25                  | 44.7       | 55.1    | 36.0         | 36.0     | 36.0         |
| 31.25               | 46.5       | 52.9    | 35.1         | 35.1     | 35.1         |
| 62.5                | 46.8       | 55.2    | 32.0         | 32.0     | 32.0         |
| 100                 | 40.8       | 48.4    | 30.0         | 30.0     | 30.0         |
| 250                 | 34.9       | 41.4    | 26.0         | 26.0     | 26.0         |
| 350                 | 28.9       | 38.7    |              |          |              |
| 500                 | 28.4       | 38.0    |              |          |              |
| Limit Margin (dB) : |            |         | 4.14         | 4.14     | 4.14         |
| Frequency (MHz) :   |            |         | 49.27        | 49.27    | 49.27        |



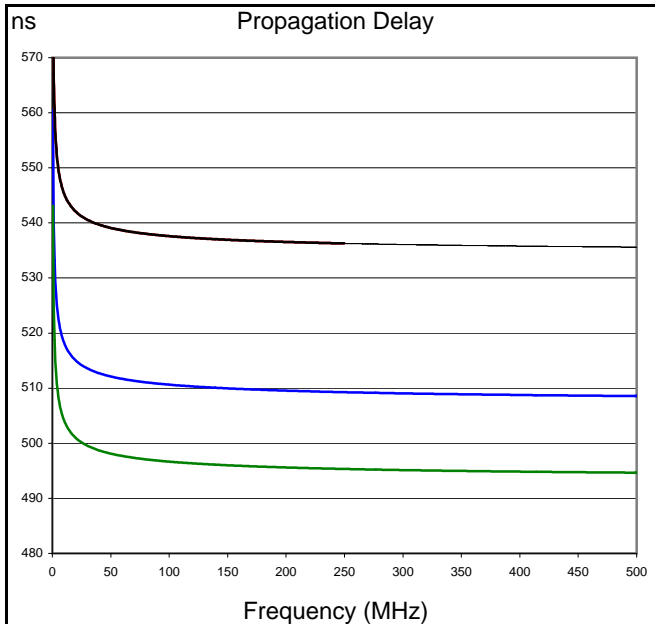
| ELTCTL/ELLCTL       |            |         |              |          |              |
|---------------------|------------|---------|--------------|----------|--------------|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |
| 1                   | 55.3       | 66.0    | 35.0         | 35.0     | 35.0         |
| 4                   | 44.3       | 58.6    | 23.0         | 23.0     | 23.0         |
| 8                   | 40.9       | 52.4    | 16.9         | 16.9     | 16.9         |
| 10                  | 40.8       | 51.8    | 15.0         | 15.0     | 15.0         |
| 16                  | 51.0       | 57.4    | 10.9         | 10.9     | 10.9         |
| 20                  | 42.2       | 50.7    | 9.0          | 9.0      | 9.0          |
| 25                  | 38.0       | 49.2    | 7.0          | 7.0      | 7.0          |
| 31.25               | 40.7       | 49.5    |              |          |              |
| 62.5                | 34.9       | 41.1    |              |          |              |
| 100                 | 33.3       | 41.0    |              |          |              |
| 250                 | 26.8       | 32.8    |              |          |              |
| 350                 | 21.6       | 26.9    |              |          |              |
| 500                 | 17.2       | 24.3    |              |          |              |
| Limit Margin (dB) : |            |         | 20.60        | 20.60    | 20.60        |
| Frequency (MHz) :   |            |         | 1.87         | 1.87     | 1.87         |

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification

### Summary

**Client** Nexans Inc., DBA Berk-Tek  
**Specifications** Berk-Tek LANmark-6  
 ANSI/TIA-568-C.2, Category 6  
 ISO/IEC 11801, Category 6  
**Part Number** 10136230  
**Description** **Berk-Tek LANmark-6 CMP**  
 4X23 UTP-CMP-Solid

**Test Started** 7/26/2011 10:37  
**Technician** John Cash  
**Report No.** 100283649CRT-011h  
**Length (m)** 100  
**Temperature** 20 °C  
**Test Status** **PASS**



| Propagation Delay   |            |         |              |          |              |  |
|---------------------|------------|---------|--------------|----------|--------------|--|
| Freq. MHz           | Worst Case | Average | LANmark Spec | TIA Spec | ISO/IEC Spec |  |
| 1                   | 540.1      | 525.2   | 570.0        | 570.0    | N/A          |  |
| 4                   | 525.0      | 510.8   | 552.0        | 552.0    | 552.0        |  |
| 8                   | 519.6      | 505.4   | 546.7        | 546.7    | 546.7        |  |
| 10                  | 518.2      | 504.1   | 545.4        | 545.4    | 545.4        |  |
| 16                  | 515.9      | 501.8   | 543.0        | 543.0    | 543.0        |  |
| 20                  | 515.1      | 501.0   | 542.0        | 542.0    | 542.0        |  |
| 25                  | 514.2      | 500.1   | 541.2        | 541.2    | 541.2        |  |
| 31.25               | 513.4      | 499.4   | 540.4        | 540.4    | 540.4        |  |
| 62.5                | 511.6      | 497.6   | 538.6        | 538.6    | 538.6        |  |
| 100                 | 510.6      | 496.7   | 537.6        | 537.6    | 537.6        |  |
| 250                 | 509.3      | 495.3   | 536.3        | 536.3    | 536.3        |  |
| 350                 | 508.9      | 495.0   |              |          |              |  |
| 500                 | 508.6      | 494.7   |              |          |              |  |
| Limit Margin (dB) : |            |         | 26.92        | 26.92    | 26.95        |  |
| Frequency (MHz) :   |            |         | 1.19         | 1.19     | 67.81        |  |

| Delay Skew |            |              |          |              |  |
|------------|------------|--------------|----------|--------------|--|
| Freq. MHz  | Worst case | LANmark Spec | TIA Spec | ISO/IEC Spec |  |
| 1-250      | 26.26      | 45           | 45       | 45           |  |

| Low frequency measurements   |            |         |         |        |        |        |         |        |
|--|------------|---------|---------|--------|--------|--------|---------|--------|
| Parameter  | Worst Case | Average | LANmark |        | TIA    |        | ISO/IEC |        |
|  |            |         | Spec    | Margin | Spec   | Margin | Spec    | Margin |
| Mutual capacitance (nF/100m)   | 5.07       | 4.87    | 5.60    | 0.53   | 5.60   | 0.53   | N/A     | N/A    |
| Maximum Capacitance Unbalance Pair-to-Ground (pF/100m)                 | 10.93      | 6.64    | 160.00  | 149.07 | 330.00 | 319.07 | 160.00  | 149.07 |
| Conductor DC resistance (Ω)  | 7.60       | 7.36    | 9.38    | 1.78   | 9.38   | 1.78   | 9.50    | 1.90   |
| DC Resistance Unbalance within a pair (%) using IEC calculation method | 0.04%      | 0.02%   | 2.00%   | 1.96%  | 2.50%  | 2.46%  | 2.00%   | 1.96%  |
| DC Resistance Unbalance between pairs (%)                              | 3.62%      | 2.13%   | 4.00%   | 0.38%  | N/A    | N/A    | 4.00%   | 0.38%  |

Legend : Blue - Worst Case; Green - Average; Red - TIA and ISO/IEC Specifications; Black - LANmark Specification