

600 MHZ CABLE & CONNECTOR MEASUREMENT REPORT*Tests performed by:**Odd Jansen**Geir Nærland*

Cables tested: Teldor 4x(2x23#) S/STP Gigador horizontal cable, 90 m sample.

Teldor 2x(2x26#)+26# Gigapatch patch cable, 5 m sample.

The samples were supplied by Teldor.

Connectors tested: TELESafe CM6 600 MHz - 4 pair connectors

The samples were supplied by Telesafe.

Tests performed: NEXT - horizontal cable, one end, all pair combinations
NEXT - basic link (without patch cable), one end, all pair combinations
NEXT - link (with patch cable), patch cable end, one pair combination

Attenuation - horizontal cable, all pairs

Attenuation - basic link, all pairs

Attenuation - link, two pairs

Impedance - horizontal cable, one end, all pairs

Return Loss - basic link, one end, all pairs

Return Loss - link, patch cable end, two pairs

ACR - cable (computed from measurements), all pair combinations

ACR - basic link (computed from measurements), all pair combinations

ACR - link (computed from measurements), one pair combination

Instruments used: HP 8752B Network Analyzer with TELESafe broadband baluns.
PC with HB-IB interface and HP Instrument Basic for measurement presentation and analysis.

Measurement results: All worst case results are shown in tables 1-5**NEXT - WORST CASE**

| | 1 - 100 MHz | 100 - 300 MHz | 300 - 600 MHz |
|------------|-------------|---------------|---------------|
| Cable | 99 dB | 95 dB | 85 dB |
| Basic Link | 91 dB | 81 dB | 70 dB |
| Link | 86 dB | 71 dB | 67 dB |

Table 1