**ATTACHMENT 3:**

**xDSL CAPABLE LOOP PERFORMANCE PARAMETER TESTS**

Note: As between Attachment 1 and Attachment 3, the terms of Attachment 1 control, should any discrepancy or apparent discrepancy be identified. See Attachment 1 regarding Conditioning.

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| **Required Tests** | **Expected Field Measurement Results** | **Notes** |
| Loop Length | Actual (Capacitive)  |  |
| Load Coils | None |  |
| Opens | None |  |
| Grounds | None |  |
| Shorts | None |  |
| Bridge Tap | LX-N Maximum:Total Length <2500 ftSingle Tap Length < 2000ftNo Near End /Far End BT( >1000 ft) LXR- Maximum:Total Length <2500 ftSingle Tap Length < 2000 ftNo Near End /Far End BT( >1000 ft) Remove All Maximum: None  | See Exclusions |
| 1004 Hz Loss\* | < -8.5dBm |  |
| 196 kHz Loss\* | Actual Measured Loss (AML):Maximum AML = EML + 5 dB LX-N Maximum dB Loss:2- wire (e.g., NCI codes of 02QB9.00H and 02QB5.00G) <28.dB4- wire (e.g, NCI codes of 04QB9.00H, 04QB5.00G, and 04QB9.00F) <31.dBLXR- Maximum dB Loss**:** LXR- <78.dB | <78 dB if such limit is within test set capability  |
| 40 kHz Loss\* | ISDN BRI <40.dB |  |
| Insulation Resistance | Tip – Ground > 3.3 Meg OhmsRing – Ground > 3.3 Meg OhmsTip – Ring > 3.3 Meg Ohms |  |
| Foreign Voltage - DC | Tip – Ground < 8 VDCRing – Ground < 8 VDCTip – Ring < 8 VDC |  |
| Foreign Voltage - AC | Tip – Ground <50VACRing to Ground <50VAC |  |
| Noise (C – Message)\* | < 23 dBrnC Far end 600 Ohm Termination  | < 20 dBrnC Acceptable, >20 < 30 dBrnC Marginal,> 30 Unacceptable |
| Noise ( C – Notch)\* | < 45 dB | 1004 Hz, 0 dBm Transmit |
| Line Balance | < to 10% | The length of the Tip side of the line compared to the length of the Ring to 10% difference |
| Longitudinal Balance\* | 965 Type Meter <= 50 dB @ 196khzOther Meters <= 40 dB @ 196khz |  |
| Power Influence | <=90 dBrnc |  |
| D-Mark Tagged | Yes |  |