



VanTek Consulting

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Test Type	Value	Results
Voltage		
Tip to Ring	< 1 VDC	
Ring to Ground	< 1 VDC	
Tip to Ground	< 1 VDC	
Resistance		
Tip to Ring Resistance Ohms	≥ 150MΩ (999MΩ is Best)	
Ring to Ground Resistance Ohms	≥ 150MΩ (999MΩ is Best)	
Tip to Ground Resistance Ohms	≥ 150 MΩ (999MΩ is Best)	
Leakage (Insulation Resistance)		
Tip to Ring Insulation Resistance Ohms	≥ 350 MΩ	
Ring to Ground Insulation Resistance Ohms	≥ 350 MΩ	
Tip to Ground Insulation Resistance Ohms	≥ 350 MΩ	
Capacitive Balance		
Capacitance Distance (T - R)	T/G & R/G conductors ≥ 99%	
Capacitance Distance (T - G)		
Capacitance Distance (R - G)		
Longitudinal Balance		
Longitudinal Balance	≥ 60 dB	
TDR and Loop Makeup Check		
Load Coils Present?	0	
Bridge Taps Present?	0	
PI - N		
Power Influence	< 80dBrnC (must be at least 70)	
Noise Metallic	< 20 dBrnC	
Circuit Balance	> 60 dB	
Resistive Balance		
Resistive Balance	Strap T/R to Gnd, R/G & T/G should be equal 5Ω or 1% whichever is less	
Tip to Ring Loop Resistance		
Ring to Ground Resistance		
Tip to Ground Resistance		
AC Voltage		
Tip to Ring	≤ 3.0 VAC	
Tip to Ground	≤ 10.0 VAC	
Ring to Ground	≤ 10.0 VAC	
WB Noise		
Wideband Noise	> - 60 dBm	
Impulse Noise Value -90dB Noise Floor - Count where Impulse Noise exceeds -30dBm	Count >2	