

AVI PREMIUM MM PATCH CORDS		
CABLE ASSEMBLY TEST DATA CRITERIA		
SC/MM		
<u>No.</u>	<u>Test Description</u>	<u>Test Criteria</u>
Cable jacket PVC, OFNR, TIA-598-A Color code.		
Bandwidth: 160MHz/km @ 850nm, 500MHz/km @ 1300nm		
Core Diameter 62.5 microns		
Group 1: Attenuation		
1.1	Insertion Loss	Max 0.3dB
1.2	Return Loss	Min 25dB
	Ferrule Compression Force	7.8N to 11.8N
	Innerbody pushout force from outerhousing	10lbs.
	Ferrule holder pushout force from innerbody	10lbs.
	Ferrule creep after heat aging @ 80degC-3 days	<0.001 in.
Group 2: Temp/Humid		
		Change in Attenuation <0.2dB
2.1	Cold	-10C, 4 days
2.2	Dry Heat	70C, 4 days
2.3	Damp Heat	40C/93%RH 4 days
2.4	Insertion Loss	Max 0.3dB
2.5	Return Loss	Min 25dB
Group 3: Durability		
		Change in Attenuation <.2dB
3.1	Drop	8 drops from 1.8m
3.2	Engagement & Separation Force	Max 19.6 N
3.3	Mechanical endurance	500 cycles
3.4	Insertion Loss	Max 0.3dB
3.5	Return Loss	Min 25dB
Group 4: Vibration		
		Change in Attenuation
4.1	Vibration	3 axis, 30 min
4.2	Change of Temp (Nb)	-10to70C, no RH, 5 cycles, 30 min
4.3	Insertion Loss	Max 0.3dB
4.4	Return Loss	Min 25dB
Group 5: Strength		
		Change in Attenuation <.2dB
5.1	Strength of Coupling Mechanism	15.5lbf for 60 sec
5.2	Cable pulling	2.2N Axial/2.2N 90deg
5.3	Cable Torsion	2.2N 10 Cycles
5.4	Cable flex	2.2N 100cycles
5.5	Minimum Bend Radius	5cm
5.6	Insertion Loss	Max 0.3dB
5.7	Return Loss	Min 25dB
Group 6: Interoperability		
6.1	Insertion loss	Max0.3dB
6.2	Return Loss	Min 25dB
Group 7: Geometric Specifications		
7.1	Ferrule ROC	10mm to 25mm
7.2	Protusion	50um to -125um
7.3	Apex Offset	<50um