	AVI PREMIUM MM PATCH CORDS	
	CABLE ASSEMBLY TEST DATA CRITERIA	
	SC/MM	
No.	**Test Description**	**Test Criteria**
	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 & Seperation 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**