

AVI VALUE SM PATCH CORDS		
CABLE ASSEMBLY TEST DATA CRITERIA		
SC, ST, FC, & LC/SM		
<u>No.</u>	<u>Test Description</u>	<u>Test Criteria</u>
	All Measurements @ 1550nm SM	
	Group 1: Attenuation	
1.1	Insertion Loss	Max 0.75dB
1.2	Back Reflection	Min 40dB
	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 0.75dB
2.5	Return Loss	Min 40dB
	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 0.75dB
3.5	Return Loss	Min 40dB
	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 0.75dB
4.4	Return Loss	Min 40dB
	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
	Cable flex	2.2N 100cycles
5.4	Insertion Loss	Max 0.75dB
5.5	Return Loss	Min 40dB
	Group 6: Interoperability	
6.1	Insertion loss	Max0.75dB
6.2	Return Loss	Min 40dB
6.3	Fiber Numerical Aperture	0.14 +/- 0.015