

C04904



Cable Assembly Component Specification

Materials, Performance and Test Requirements

Issue 4
C/Note: 21386

Connector Type >>>>		Datamate Coax	M300	Datamate Power	Datamate T-contact	Datamate Signal 22-24 AWG	Datamate Signal 26-30 AWG	Gecko	
Testing Requirements									
IPC Class	3 - 1	2	3	2	3	3	3	3	
	2Ω	2Ω	2Ω	2Ω	2Ω	2Ω	2Ω	2Ω	
Continuity Test	Continuity Test will only be completed on Double Ended Assemblies. Harwin will not be completing any Continuity Tests on single ended cable assemblies.								
Shorts Test	Required	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
IPC-A-620 Hi-pot DWV	1500 VDC, 1mA, 1 sec. dwell	1000VDC w/ 1GΩ Max. leakage current is 1 mA 1 sec. dwell	1,800 VDC, 1 mA, 1 sec. dwell	1,200 VDC, 1 mA, 1 sec. dwell	1,200 VDC, 1 mA, 1 sec. dwell	1,200 VDC, 1 mA, 1 sec. dwell	1,200 VDC, 1 mA, 1 sec. dwell	600 VDC, 1 mA, 1 sec. dwell	
IPC-A-620 Insulation Resistance	100 MΩ, 10 sec. max dwell	1 GΩ, 1 sec. dwell per net	1 GΩ, 1 sec. dwell per net	1 GΩ, 1 sec. dwell per net	1 GΩ, 1 sec. dwell per net	1 GΩ, 1 sec. dwell per net	1 GΩ, 1 sec. dwell per net	500 MΩ, 1 sec. dwell per net	
Performance Levels									
Voltage Rating	Harwin Component Specification	1000VAC	1800 VDC	800VDC	1200VDC	1200VDC	1200VDC	600 VDC	
Current Rating		0.5 Amps	5.0-10.0 Amps	5.0-40.0 Amps	upto 8.5 Amps	3.0 Amps	3.0 Amps	2.0 Amps	
Operating Temperature		-55°C to +125°C	-65°C to +175°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-55°C to +125°C	-65°C to +150°C
Pitch		4.00mm	3.00mm	4.00mm	2.00mm	2.00mm	2.00mm	1.25mm	
Material Requirements									
Potting compound to be used*	N/A	50-3122 Epoxy Black	N/A	Stycast 2651 MM Black with Catalyst 9	Stycast 2651 MM Black with Catalyst 9	Stycast 2651 MM Black with Catalyst 9	Stycast 2651 MM Black with Catalyst 9	Stycast 2651 MM Black with Catalyst 9	
*Backpotting compound will only be supplied with connectors that have backpotting walls.									
Unless specified on specific product drawings all Harwin cable assemblies will be manufactured from the cables specified below.									
OTS Wire specification	RG178 COAX wire, Natural Tan FEP Jacket (3 GHz)	M22759/11-xx	M22759/11-xx	MIL16878/6	MIL16878/6	M22759/11-xx	BS 3G 210 Type A		
OTS Wire Gauges	-	18-22AWG	10-20AWG	22AWG	22-24 AWG	26-30 AWG	26-32AWG		
OTS Wire Voltage Rating	1000V	600V	600V	250V	250V	600V	300V		
OTS Wire Insulation Material Type	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE		

Cable ties are made by Panduit Corp. (Part No.: PLT1M-M). They are 2.5mm wide PA66 Natural. Cables ties will not be applied to cables shorter than 1m long. 1.001-1.500m cables will have a single tie centrally positioned. An additional tie will be applied to each extra 50cm of cable (ie. 1.501-2.000m will have 2 equally spaces ties, 2.001-2.500m will have 3 equally spaced ties, etc.).