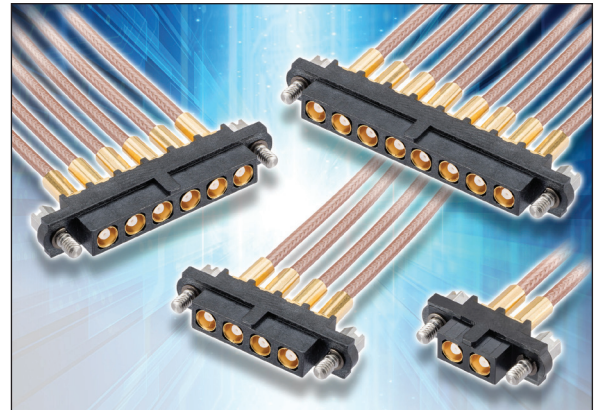


Datamate Ganged 50Ω Coax Off-the-Shelf Wire-to-Board Connectors

Complete ready-to-use solutions

All-new Datamate Ganged 50Ω Coax “off-the-shelf” cable assemblies are designed to provide reliable performance and quick delivery, as well as a complete plug-and-play solution.

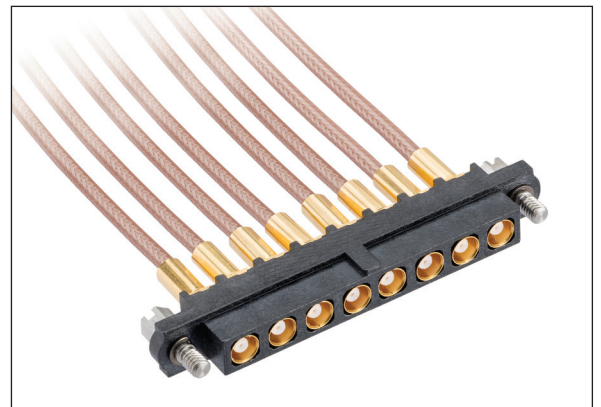
These fully terminated “off-the-shelf” assemblies are available in 150, 300 and 450mm cable lengths and utilise high-grade, lightweight RG178 wire for a flexible, but space saving quality assured cable assembly.



Datamate 50Ω Coax Cable Assemblies

Features and Benefits

Datamate 50Ω Coax solutions are a Ganged connector	Multiple coax connections made faster and more secure than traditional or competitor solutions
Decrease production build time, increase assembly speeds	Just one connection required
These compact design connectors are on a 4.00mm pitch	Reduces space real-estate requirements and weight
High-quality, high-reliability 50Ω gold plated coaxial contacts	Ideally suited for high vibration environments and multiple insertions
Shrouded housing design	Protects both male and female contacts prior to, and during, mating cycles
Central polarisation feature	Eliminates the possibility of mis-mating due to incorrect orientation
Stainless Steel jackscrew fixings	Strong and secure mating, excellent robust strain relief
150, 300 & 450mm single and double ended options in stock	Fast delivery, hassle-free installation and fully tested
100% electrically tested and inspected assembly	Total confidence in fault-free connections



M80-FC305F1-08-0150L

Key Applications

Aviation	Avionics, Aircraft Infotainment, Radar
Motorsport and Transport	Navigation, GPS, Tracking
Energy	Oil, Gas and Renewable Sources
Industrial	Drives and Controls, Robotics
Space	Satellites, CubeSat, Launch Systems
Defence and Security	Wi-Fi Antennas, Routers, Radio Communications and Radar



M80-FC305F1-02-0150F1

Datamate Ganged 50Ω Coax Off-the-Shelf Wire-to-Board Connectors

Complete ready-to-use solutions

Product Features

Choice of standard cable lengths - 150mm, 300mm or 450mm

Ganged connector for fast mating and ease of assembly

High-grade, lightweight RG178 wire for a flexible, but space saving cable assembly

50Ω gold plated coaxial contacts withstand multiple mating cycles

Central polarisation feature to prevent mis-mating

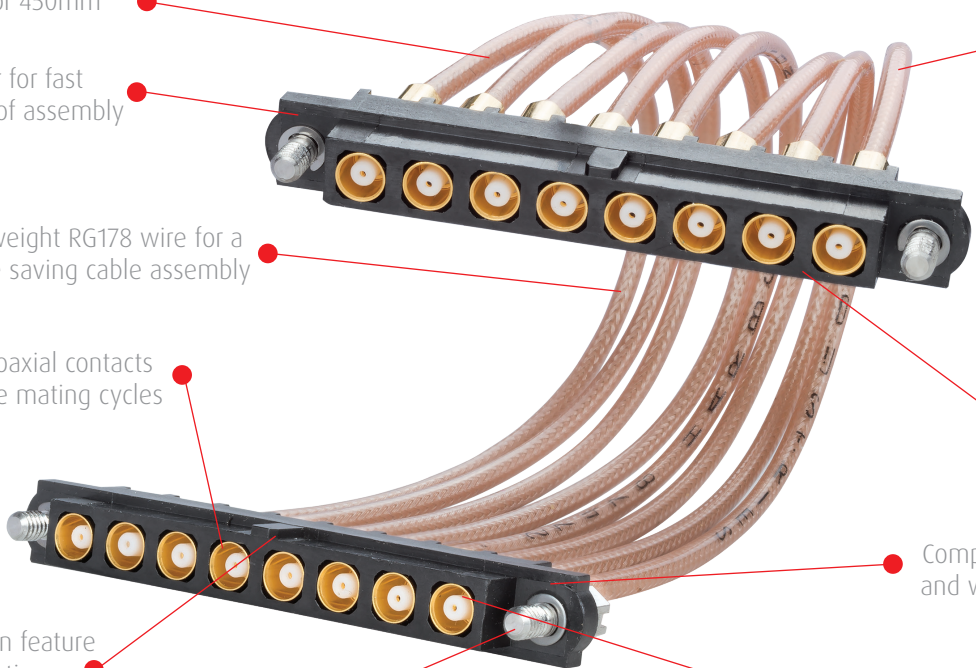
Stainless steel jackscrews ensure strong and secure mating

100% electrically tested for total confidence in fault-free connections

Shrouded housing design to protect the contacts during cycling

Compact to reduce space and weight requirements

Gold plated contacts resist high levels of vibration and shock



Mating Male Connectors

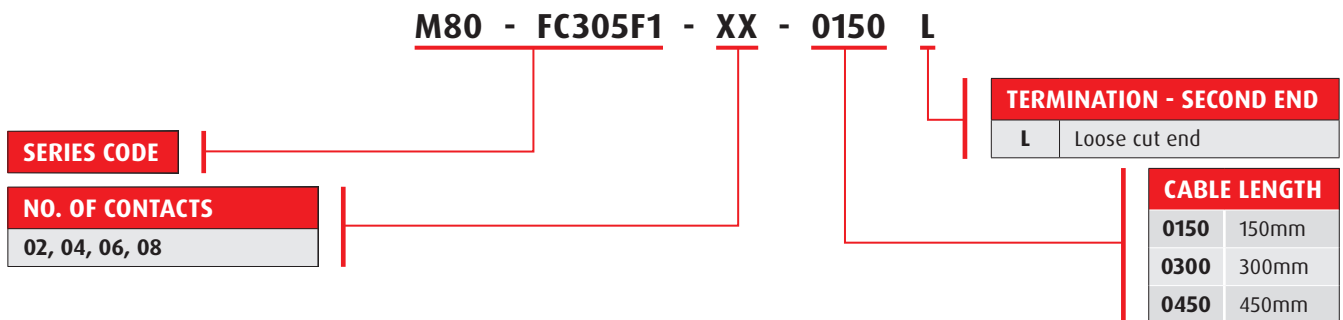
No. of Contacts	Vertical / Straight PCB Connector		Horizontal / Right Angled PCB Connector	
	3mm PC Tail	4.5mm PC Tail	3mm PC Tail	4.5mm PC Tail
2 Contacts	M80-MV311M2-02	M80-MV312M2-02	M80-MH313M5-02	M80-MH314M5-02
4 Contacts	M80-MV311M2-04	M80-MV312M2-04	M80-MH313M5-04	M80-MH314M5-04
6 Contacts	M80-MV311M2-06	M80-MV312M2-06	M80-MH313M5-06	M80-MH314M5-06
8 Contacts	M80-MV311M2-08	M80-MV312M2-08	M80-MH313M5-08	M80-MH314M5-08

Datamate Ganged 50Ω Coax Off-the-Shelf Wire-to-Board Connectors

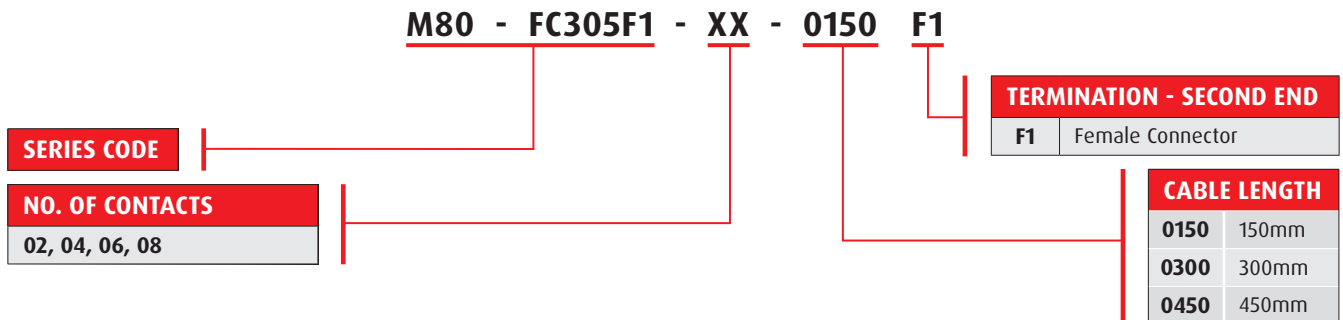
Complete ready-to-use solutions

How to Order

Datamate 50Ω Coax single-ended Cable Assemblies



Datamate 50Ω Coax double-ended Cable Assemblies



Specifications

Electrical		Mechanical		Physical	
Working Voltage	180V AC @ 500mA	No of Operations	500	Packaging	10 per Bag
Maximum Voltage	1000V AC	Insertion force	8N per contact	Housing	30% GF PPS UL94V-0
Frequency Range	Up to 6.0GHz	Withdrawal Force	0.5 N per contact	Contacts	Copper alloy, Gold over nickel plated
Impedance	50Ω	Temp range	-55°C to +125 °C	Insulator	PTFE
VSWR	1.05 + (0.04 X Frequency) GHz Max	Vibration	10G 6 hours, 2 hours per axis	Latching collar	Beryllium Copper, Nickel plated
Contact Resistance	6mΩ Max	Shock	100G 6ms	Wire	RG 178, natural tan FEP
Insulation Resistance	10 ⁶ MΩ @ 250V AC				

Cable Assemblies are checked using a Cirrus Tester for open loops + 1500V flashover test

Additional Literature

[Product Training Module >>](#)