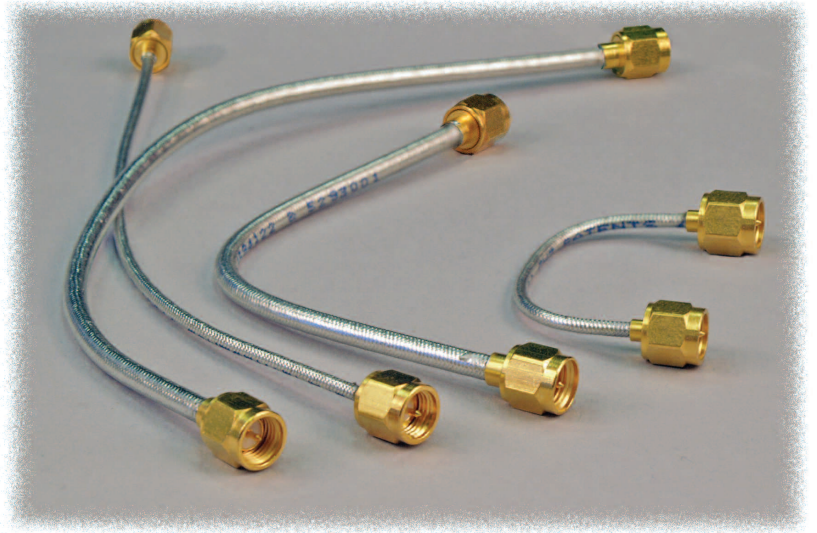


SMA Hand-Formable Fixed Length Cable Assemblies for RF/Microwave Applications



Emerson Network Power Connectivity Solutions has added to its Johnson® product line a series of SMA Hand-Formable, fixed-length cable assemblies for RF/Microwave applications.

These Hand-Formable cable assemblies are an excellent alternative to semi-rigid cables which are more costly and less flexible during early stages of design and effectively eliminate additional tooling charges.

In conjunction with our popular Johnson® brand of connectors on each end, these SMA Hand-Formable cable assemblies are constructed of a silver-plated, copper covered steel conductor, with an additional copper-tin composite braid foil. When RF interference isn't an option, these cables provide 100% shielded cable coverage assuring an outstanding VSWR and low insertion loss of up to 18 GHz.

Available in a variety of lengths off-the-shelf, these Hand-Formable SMA cable assemblies offer users a high quality, low cost solution. As with all other RF cable assemblies provided by Johnson®, these assemblies are also available in custom lengths upon request.

Key Features & Benefits

- Constructed with Johnson® Premium SMA Connectors
- Assembled with 50 Ohm Hand-Formable Microwave Cable
- 100% Shielded Cable Coverage
- Available in .086 & .141 cable diameters
- Off-the-Shelf Availability
- Low-cost alternative to Custom-made cables
- Excellent VSWR to 18 GHz for Microwave applications



Part No.	Cable Assembly	Conn.1	Conn.2	Length*
415-0081-003	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	3 in.
415-0081-004	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	4 in.
415-0081-005	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	5 in.
415-0081-006	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	6 in.
415-0081-007	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	7 in.
415-0081-008	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	8 in.
415-0081-012	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	12 in.
415-0081-018	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	18 in.
415-0081-024	Hand-Formable .086 Cable	SMA Plug, Straight	SMA Plug, Straight	24 in.
415-0082-003	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	3 in.
415-0082-004	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	4 in.
415-0082-005	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	5 in.
415-0082-006	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	6 in.
415-0082-007	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	7 in.
415-0082-008	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	8 in.
415-0082-012	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	12 in.
415-0082-018	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	18 in.
415-0082-024	Hand-Formable .141 Cable	SMA Plug, Straight	SMA Plug, Straight	24 in.

*Ref Plane to Ref Plane

Electrical Ratings

Part No.	Length (inches)	Nominal Electrical Delay (ns)	Insertion Loss (dB Max) Vs Frequency (GHz)						VSWR (MAX) Vs Frequency (GHz)		
			0 to 1	1 to 2	2 to 4	4 to 6	6 to 12	12 to 18	0 to 1	1 to 2	2 to 18
415-0081-003	3.00±.05	0.36	0.12	0.17	0.24	0.29	0.41	0.51	1.06	1.10	1.1+.01f
415-0081-004	4.00±.05	0.49	0.14	0.20	0.29	0.35	0.49	0.60			
415-0081-005	5.00±.10	0.61	0.17	0.23	0.33	0.40	0.57	0.70			
415-0081-006	6.00±.10	0.73	0.19	0.26	0.38	0.46	0.65	0.79			
415-0081-007	7.00±.10	0.85	0.21	0.30	0.42	0.51	0.72	0.89			
415-0081-008	8.00±.10	0.97	0.23	0.33	0.47	0.57	0.80	0.98			
415-0081-012	12.00±.15	1.46	0.32	0.45	0.65	0.79	1.11	1.36			
415-0081-018	18.00±.15	2.19	0.46	0.64	0.92	1.12	1.58	1.93			
415-0081-024	24.00±.15	2.92	0.59	0.83	1.19	1.45	2.04	2.49	1.06	1.10	1.1+.01f
415-0082-003	3.00±.05	0.36	0.09	0.13	0.19	0.24	0.34	0.43			
415-0082-004	4.00±.05	0.49	0.10	0.15	0.22	0.27	0.39	0.49			
415-0082-005	5.00±.10	0.61	0.12	0.17	0.24	0.30	0.44	0.56			
415-0082-006	6.00±.10	0.73	0.13	0.18	0.27	0.34	0.49	0.62			
415-0082-007	7.00±.10	0.85	0.14	0.20	0.30	0.37	0.54	0.69			
415-0082-008	8.00±.10	0.97	0.15	0.22	0.32	0.40	0.59	0.75			
415-0082-012	12.00±.15	1.46	0.20	0.29	0.43	0.54	0.79	1.01			
415-0082-018	18.00±.15	2.19	0.27	0.39	0.59	0.74	1.09	1.40			
415-0082-024	24.00±.15	2.92	0.35	0.50	0.75	0.94	1.39	1.79			

Emerson Network Power.
The global leader in enabling
Business-Critical Continuity.

AC Power Systems
Connectivity
DC Power Systems

Embedded Power
Inbound Power
Integrated Cabinet Solutions

Outside Plant
Precision Cooling
Site Monitoring and Services

Emerson Network Power Connectivity Solutions
Johnson
299 Johnson Ave., Suite 100
Waseca, MN 56093

Emerson Network Power and the Emerson
Network Power logo are trademarks and
service marks of Emerson Electric Co.
©2006 Emerson Electric Co.

For product Information:
www.EmersonNetworkPower.com/Connectivity
or call 800.247.8256

JCI0606-HFC

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Emerson Connectivity Solutions:](#)

[415-0081-008](#)