

Emerson's UMC Ultraminiature Coaxial Connectors and Cable Assemblies are the answer for quality, snap-on connections built to meet your cost and performance targets. The UMC cable plugs and jack receptacles offer 2.0mm and 2.5mm maximum mated height options with DC to 6 GHz electrical performance.

**Applications:** • Wireless LAN, Mini-PCI and Hand-Held RF Devices • GSM, GPRS and CDMA Mobile Phones • PDA and Notebook Computer • GPS • Bluetooth • Microwave radio and measurement **Features:** • Excellent cost to performance

ratio • All cabled plugs and jack receptacles are supplied with gold plated contacts and bodies **Product Specifications:**  
• Impedance: 50Ω (nominal) • Temperature Range: -40°C ~ 90°C • Frequency Rating: 0GHz ~ 6GHz • VSWR: 1.30 maximum (0GHz ~ 6GHz) • Contact Resistance: 20mΩ maximum (Center), 20mΩ maximum (Outer, for plug), 10mΩ maximum (Outer, for receptacle) • Withstanding Voltage: 200VAC • Insulation Resistance: 500MΩ minimum • Durability: 30 cycles • Holding Force (minimum): 0.15 N (Female contact)

**A**

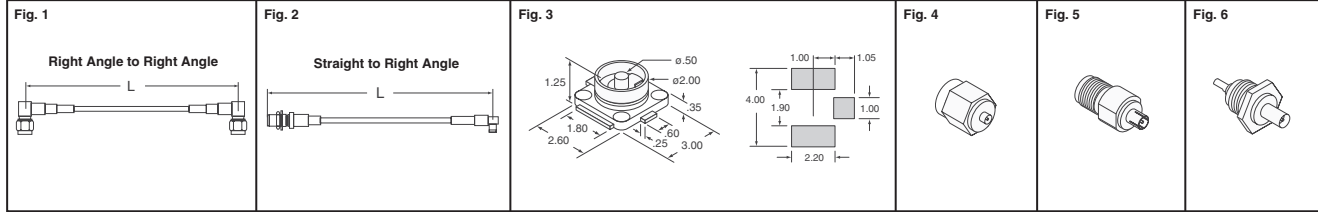


Fig.	Coaxial Cable ø (mm)	Plug Mated Height (mm)	Dimension L (mm)	Digi-Key Part No.	Price Each	Johnson Part No.		
					1	10	100	
<b>Right Angle to Right Angle Cables</b>								
<b>Low Profile UMC Right Angle Cable Plug to UMC Right Angle Cable Plug</b>								
1	.081	2.0	50	J918-ND	3.58	3.18	2.52	415-0084-050
			100	J919-ND	3.75	3.34	2.64	415-0084-100
			150	J920-ND	3.98	3.54	2.81	415-0084-150
			200	J921-ND	4.12	3.66	2.90	415-0084-200
			250	J922-ND	4.25	3.78	3.00	415-0084-250
			300	J923-ND	4.46	3.96	3.14	415-0084-300
500	J924-ND	5.20	4.62	3.66	415-0084-500			
<b>Medium Profile UMC Right Angle Cable Plug to UMC Right Angle Cable Plug</b>								
1	.081	2.5	50	J925-ND	3.58	3.18	2.52	415-0085-050
			100	J926-ND	3.75	3.34	2.64	415-0085-100
			150	J927-ND	3.98	3.54	2.81	415-0085-150
			200	J928-ND	4.12	3.66	2.90	415-0085-200
			250	J929-ND	4.25	3.78	3.00	415-0085-250
			300	J930-ND	4.46	3.96	3.14	415-0085-300
500	J931-ND	5.20	4.62	3.66	415-0085-500			
1	1.13	2.5	50	J932-ND	3.58	3.18	2.52	415-0086-050
			100	J933-ND	3.75	3.34	2.64	415-0086-100
			150	J934-ND	3.98	3.54	2.81	415-0086-150
			200	J935-ND	4.12	3.66	2.90	415-0086-200
			250	J936-ND	4.25	3.78	3.00	415-0086-250
			300	J937-ND	4.46	3.96	3.14	415-0086-300
500	J938-ND	5.20	4.62	3.66	415-0086-500			
1	1.32	2.5	50	J939-ND	3.58	3.18	2.52	415-0087-050
			100	J940-ND	3.75	3.34	2.64	415-0087-100
			150	J941-ND	3.98	3.54	2.81	415-0087-150
			200	J942-ND	4.12	3.66	2.90	415-0087-200
			250	J943-ND	4.25	3.78	3.00	415-0087-250
			300	J944-ND	4.46	3.96	3.14	415-0087-300
500	J945-ND	5.20	4.62	3.66	415-0087-500			
1	1.37	2.5	50	J946-ND	3.58	3.18	2.52	415-0088-050
			100	J947-ND	3.75	3.34	2.64	415-0088-100
			150	J948-ND	3.98	3.54	2.81	415-0088-150
			200	J949-ND	4.12	3.66	2.90	415-0088-200
			250	J950-ND	4.25	3.78	3.00	415-0088-250
			300	J951-ND	4.46	3.96	3.14	415-0088-300
500	J952-ND	5.20	4.62	3.66	415-0088-500			
<b>Low Profile UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug</b>								
1	.81	2.0	150	J977-ND	25.76	22.90	18.13	415-0101-150
			250	J978-ND	26.27	23.36	18.49	415-0101-250
<b>Medium Profile UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug</b>								
1	.81	2.5	150	J979-ND	25.76	22.90	18.13	415-0102-150
			250	J980-ND	26.27	23.36	18.49	415-0102-250
	1.37	2.5	150	J981-ND	25.76	22.90	18.13	415-0103-150
			250	J982-ND	26.27	23.36	18.49	415-0103-250
<b>Right Angle to Straight Cables</b>								
<b>Low Profile UMC Right Angle Cable Plug to SMA Straight Crimp Plug</b>								
2	.81	2.0	150	J953-ND	27.65	24.58	19.46	415-0089-150
			250	J954-ND	28.35	25.20	19.95	415-0089-250

Fig.	Coaxial Cable ø (mm)	Plug Mated Height (mm)	Dimension L (mm)	Digi-Key Part No.	Price Each	Johnson Part No.		
					1	10	100	
<b>Medium Profile UMC Right Angle Cable Plug to SMA Straight Crimp Plug</b>								
2	.81	2.5	150	J955-ND	27.65	24.58	19.46	415-0090-150
			250	J956-ND	28.35	25.20	19.95	415-0090-250
	1.37	2.5	150	J957-ND	27.65	24.58	19.46	415-0091-150
			250	J958-ND	22.73	20.21	16.00	415-0091-250
<b>Low Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Plug</b>								
2	.81	2.0	150	J959-ND	26.62	23.67	18.74	415-0092-150
			250	J960-ND	27.14	24.12	19.10	415-0092-250
<b>Medium Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Plug</b>								
2	.81	2.5	150	J961-ND	26.62	23.67	18.74	415-0093-150
			250	J962-ND	27.14	24.12	19.10	415-0093-250
	1.37	2.5	150	J963-ND	26.62	23.67	18.74	415-0094-150
			250	J964-ND	27.14	24.12	19.10	415-0094-250
<b>Low Profile UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack</b>								
2	.81	2.0	150	J965-ND	26.95	23.96	18.97	415-0095-150
			250	J966-ND	27.49	24.44	19.35	415-0095-250
<b>Medium Profile UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack</b>								
2	.81	2.5	150	J967-ND	26.95	23.96	18.97	415-0096-150
			250	J968-ND	27.49	24.44	19.35	415-0096-250
	1.37	2.5	150	J969-ND	26.95	23.96	18.97	415-0097-150
			250	J970-ND	27.49	24.44	19.35	415-0097-250
<b>Low Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Bulkhead Jack</b>								
2	.81	2.0	150	J971-ND	30.08	26.74	21.17	415-0098-150
			250	J972-ND	30.40	27.03	21.40	415-0098-250
<b>Medium Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Bulkhead Jack</b>								
2	.81	2.5	150	J973-ND	30.08	26.74	21.17	415-0099-150
			250	J974-ND	30.40	27.03	21.40	415-0099-250
	1.37	2.5	150	J975-ND	30.08	26.74	21.17	415-0100-150
			250	J976-ND	30.40	27.03	21.40	415-0100-250
<b>Low Profile UMC Right Angle Cable Plug to Bare End</b>								
—	.81	2.5	150	J10034-ND	2.50	2.22	1.76	415-0104-150
			250	J10035-ND	2.80	2.50	1.98	415-0104-250
<b>Medium Profile UMC Right Angle Cable Plug to Bare End</b>								
—	.81	2.5	150	J10036-ND	2.50	2.22	1.76	415-0105-150
			250	J10037-ND	2.80	2.50	1.98	415-0105-250
—	1.13	2.5	150	J10038-ND	2.50	2.22	1.76	415-0106-150
			250	J10039-ND	2.80	2.50	1.98	415-0106-250
—	1.32	2.5	150	J10040-ND	2.50	2.22	1.76	415-0107-150
			250	J10041-ND	2.80	2.50	1.98	415-0107-250
—	1.37	2.5	150	J10042-ND	2.50	2.22	1.76	415-0108-150
			250	J10043-ND	2.80	2.50	1.98	415-0108-250
<b>Connectors and Accessories</b>								
<b>UMC PCB Jack Receptacle - Surface Mount</b>								
3	Straight Jack Receptacle			J983CT-ND	1.03	.64	.47	128-0711-201
				J983TR-ND	891.75/2,500			128-0711-201
<b>SMA Conversion Adapters</b>								
4	SMA Plug to UMC Jack			J985-ND	135.00	120.00	95.00	134-1019-361
5	SMA Jack to UMC Plug			J986-ND	135.00	120.00	95.00	134-1019-371
6	SMA Adapter for Surface Mount Jack			J987-ND	141.75	126.00	99.75	134-1019-381
<b>Tool</b>								
—	UMC Separation Key			J984-ND	3.78	3.36	2.66	128-0000-901

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**RF Connectors and Adapters**

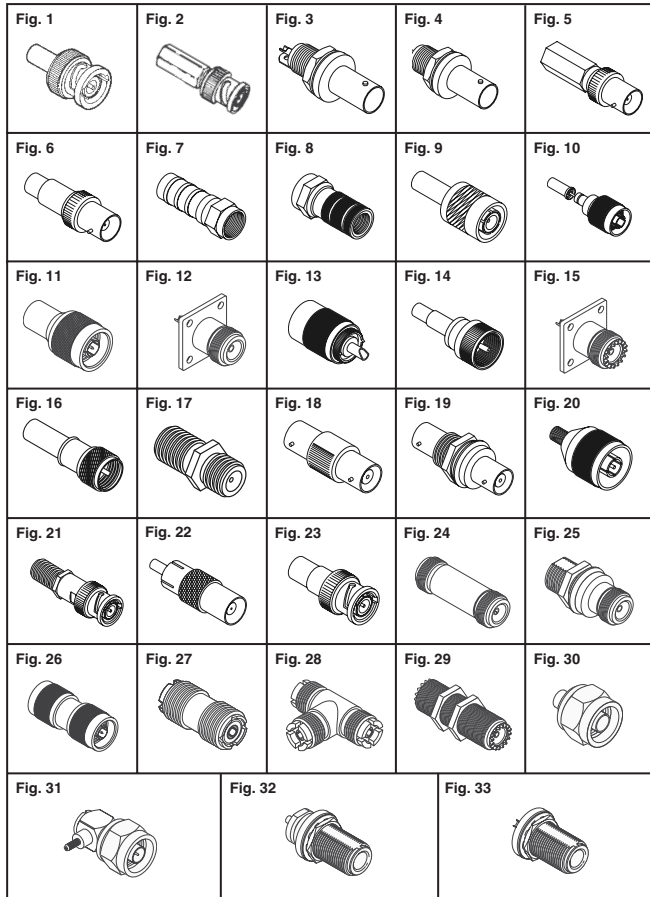


Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1 25 50	Emerson Part No.
<b>Connectors</b>						
<b>True 75 Ohm BNC</b>						
1	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	RG-6, Belden 8215 RG-179, 187, Belden 1520A	367-1069-ND 367-1072-ND	5.97 5.43 4.34 6.44 5.85 4.68	CPMC-68-5 CPMC-68-20
<b>BNC</b>						
1	Plug	Crimp-Type Push-On, 50Ω	RG-58 RG-59, 62 RG-6	367-1001-ND 367-1002-ND 367-1004-ND	2.05 1.87 1.50 1.97 1.79 1.44 2.11 1.92 1.54	CP-88-1 CP-88-2 CP-88-5
1	Plug	Crimp-Type, Solder or Crimp Contact, 50Ω	RG-179, 187 RG-174, 188, 316 RG-58, 141 RG-59, 62 RG-59, 62, TFE RG-142, 223, 400, 55 Belden 8218	367-1043-ND 367-1044-ND 367-1047-ND 367-1048-ND 367-1050-ND 367-1052-ND 367-1053-ND	2.62 2.38 1.91 2.62 2.38 1.91 2.62 2.38 1.91 2.62 2.38 1.91 2.62 2.38 1.91 2.62 2.38 1.91 2.62 2.38 1.91	CPM-88-20 CPM-88-19 CPMC-88-1 CPMC-88-2 CPMC-88-10 CPMC-88-13 CPMC-88-18
2	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	RG-59, 62 Belden 8218, 1855A	367-1045-ND 367-1046-ND	2.62 2.38 1.91 2.62 2.38 1.91	CPMC-78-2 CPMC-78-18
2	Plug	Twist-On, Field Installable, 50Ω	RG-58 RG-59, 62 RG-6	367-1030-ND 367-1031-ND 367-1034-ND	1.97 1.80 1.44 1.96 1.79 1.43 1.88 1.71 1.37	CPFI-UG88-1 CPFI-UG88-2 CPFI-UG88-5
3	Jack	Front-Mnt. Bulkhead Jack with Solder Tab, 50Ω	—	367-1019-ND	3.01 2.74 2.19	CP-1094-AST
4	Jack	Front-Mnt. Bulkhead Jack without Solder Lug, 50Ω	—	367-1020-ND	3.01 2.74 2.19	CP-1094-U
5	Jack	Straight Twist-On Jack, 50 Ohm	RG-59, 62	367-1036-ND	2.53 2.30 1.84	CPFI-UG89-2
6	Jack	Crimp-Type Jack, Push-On Body, 50Ω	RG-59, 62	367-1007-ND	2.07 1.89 1.51	CP-89-2
<b>Type F</b>						
7	Plug	Crimp-Type Plug	RG-6 RG-6 Quad Shield RG-59	367-1022-ND 367-1023-ND 367-1025-ND	.45 .41 .33 .50 .46 .37 .45 .41 .33	CPF-56-ALM CPF-56-ALS CPF-59-ALM
8	Plug	Twist-On Plug (no Crimp)	RG-6	367-1027-ND	.47 .43 .35	CPFI-56

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1 25 50	Emerson Part No.
<b>TNC</b>						
9	Plug	Crimp-Type Plug Solder or Crimp	RG-58, 141 RG-142, 223, 400, 55 RG-8X (MINI 8)	367-1056-ND 367-1057-ND 367-1058-ND	2.62 2.38 1.91 2.62 2.38 1.91 2.62 2.38 1.91	CPMC-TNC-1 CPMC-TNC-13 CPMC-TNC-17
<b>Type N</b>						
10	Plug	Crimp-Type Plug	RG-58 RG-142, TFE RG-8, 213 RG-8, 213 Proflex RG-450 RG-8X (MINI 8)	367-1059-ND 367-1060-ND 367-1061-ND 367-1062-ND 367-1063-ND 367-1086-ND	5.39 4.90 3.92 5.39 4.90 3.92 5.39 4.90 3.92 5.39 4.90 3.92 5.39 4.90 3.92 5.39 4.90 3.92	CPN-1 CPN-142T CPN-8 CPN-8/110 CPN-16 CPN-17
11	Plug	Crimp-Type Plug	RG-8, 213 RG-58, Belden 9907	367-1079-ND 367-1080-ND	7.88 7.17 5.74 5.96 5.43 4.34	CPN-68-8 CPN-68-1
12	Jack	Flange Mount Jack	—	367-1081-ND	3.69 3.36 2.69	CP-AD801
<b>UHF</b>						
13	Plug	Solder-Type, Standard	RG-8, 213 RG-58	367-1010-ND 367-1037-ND	3.81 3.46 2.77 3.21 2.92 2.34	CP-AD-250 CPL-259-1
14	Plug	Crimp-Type, Crimp Contact	RG-59, 62 RG-59, TFE	367-1038-ND 367-1040-ND	3.21 2.92 2.34 1.55 1.41 1.13	CPL-259-2 CPL-259-10
15	Jack	4-Hole Flange Mount Jack	—	367-1082-ND	1.83 1.67 1.34	CP-AD206
<b>Mini-UHF</b>						
16	Plug	Crimp-Type, Solder or Crimp Contact	RG-58 RG-8X (MINI 8)	367-1064-ND 367-1066-ND	1.70 1.55 1.24 1.70 1.55 1.24	MINI-UHF-1 MINI-UHF-17

Fig.	Description	Digi-Key Part No.	Price Each 1 25 50	Emerson Part No.
<b>Adapters</b>				
<b>F In-Series</b>				
17	Jack to Jack Adapter, 3/4" In-line Splice	367-1026-ND	.39 .35 .28	CPF-81
<b>BNC</b>				
18	Jack to Jack Adapter	367-1015-ND	1.54 1.40 1.12	CP-AD-555
19	Bulkhead Jack to Jack Adapter with Lock Washer	367-1016-ND	5.24 4.77 3.82	CP-AD-556M
<b>Between Series</b>				
20	N Plug to SMA Jack	367-1017-ND	6.90 6.28 5.02	29-3840
21	BNC Plug to F Jack	367-1014-ND	2.49 2.26 1.81	CP-AD-516
22	BNC Jack to RCA Plug	367-1012-ND	1.76 1.61 1.29	CP-AD-501
23	BNC 50 Ohm Plug to RCA Jack	367-1013-ND	1.36 1.24 .99	CP-AD-515
<b>Type N</b>				
24	Jack to Jack Adapter	367-1087-ND	4.79 4.36 3.49	CP-AD850
25	Jack to Bulkhead Jack Adapter	367-1088-ND	4.79 4.36 3.49	CP-AD851
26	Plug to Plug Adapter	367-1089-ND	6.57 5.98 4.78	CP-AD800
<b>UHF</b>				
27	Jack to Jack Adapter	367-1083-ND	2.67 2.43 1.94	CP-AD204
28	Jack to Jack to Jack T Adapter	367-1084-ND	9.13 8.30 6.64	CP-AD210
29	Bulkhead Jack to Bulkhead Jack Adapter	367-1090-ND	6.13 5.57 4.46	CP-AD207

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1 10 50	Johnson Part No.
<b>11 GHz, MIL-PRF-39012, Connectors</b>						
<b>Type N</b>						
12	Jack	4-Hole Flange Mount Jack, Solder	—	J873-ND	24.70 21.66 18.62	138-4701-607
30	Plug	Straight Crimp	RG-58/U, 141, 303 RG-213, 8/U RG-214, 9/U RG-142, 55/U, 223, 400 RG-316, 161/U, 174, 188 RG-316 DS, 188 DS LMR-400, Belden 9913	J841-ND J842-ND J843-ND J844-ND J845-ND J846-ND J847-ND	15.28 13.40 11.52 16.90 14.82 12.74 16.58 14.54 12.50 15.28 13.40 11.52 19.50 17.10 14.70 20.15 17.67 15.19 16.25 14.25 12.25	138-4407-007 138-4416-007 138-4418-007 138-4408-007 138-4403-007 138-4404-007 138-4449-007
30	Plug	Straight Solder	RG-401, .250 Semi-Rigid RG-402, .141 Semi-Rigid RG-405, .086 Semi-Rigid RG-401, .250 Semi-Rigid RG-402, .141 Semi-Rigid RG-405, .086 Semi-Rigid	J854-ND J855-ND J856-ND J857-ND J858-ND J859-ND	16.71 14.65 12.60 16.45 14.43 12.40 16.45 14.43 12.40 16.51 14.48 12.45 21.78 19.10 16.42 17.36 15.22 13.09	138-4696-001 138-4694-001 138-4693-001 138-4696-011 138-4694-011 138-4693-011
31	Plug	Right-Angle Crimp	RG-58/U, 141, 303 RG-213, 8/U RG-214, 9/U RG-142, 55/U, 223, 400 RG-316, 161/U, 174, 188 RG-316 DS, 188 DS	J848-ND J849-ND J850-ND J851-ND J852-ND J853-ND	25.68 22.52 19.36 21.45 18.81 16.17 21.45 18.81 16.17 25.68 22.52 19.36 24.70 21.66 18.62 25.35 22.23 19.11	138-4407-107 138-4416-107 138-4418-107 138-4408-107 138-4403-107 138-4404-107
32	Jack	Straight Crimp	RG-58/U, 141, 303 RG-213, 8/U RG-214, 9/U RG-142, 55/U, 223, 400 RB-316, 161/U, 174, 188 RG-316 DS, 188 DS LMR-400, Belden 9913	J860-ND J861-ND J862-ND J863-ND J864-ND J865-ND J866-ND	20.09 17.62 15.15 19.83 17.39 14.95 20.15 17.67 15.19 20.09 17.62 15.15 25.68 22.52 19.36 25.68 22.52 19.36 20.35 17.85 15.34	138-4307-407 138-4316-407 138-4318-407 138-4308-407 138-4303-407 138-4304-407 138-4349-407
32	Jack	Straight Solder	RG-401, .250 Semi-Rigid RG-402, .141 Semi-Rigid RG-405, .086 Semi-Rigid	J867-ND J868-ND J869-ND	22.43 19.67 16.91 17.88 15.68 13.48 22.43 19.67 16.91	138-4596-401 138-4594-401 138-4593-401
33	Jack	Rear Mount Bulkhead Jack	—	J874-ND	24.70 21.66 18.62	138-4701-407

Fig.	Description	Digi-Key Part No.	Price Each 1 10 50	Johnson Part No.
<b>18 GHz, MIL-PRF-39012, Adapters</b>				
<b>Type N</b>				
24	Jack to Jack Adapter	J870-ND	33.54 29.42 25.29	138-4901-807
25	Jack to Bulkhead Jack Adapter	J871-ND	38.68 33.92 29.16	138-4901-407
26	Plug to Plug Adapter	J872-ND	41.86 36.71 31.56	138-4901-817



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