

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

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

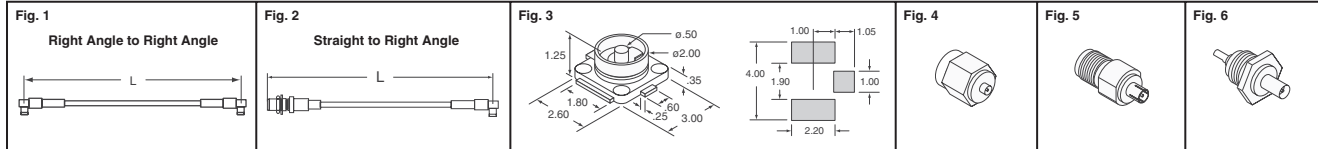


Fig.	Coaxial Cable ø (mm)	Plug Mated Height (mm)	Dimension L (mm)	Digi-Key Part No.	Price Each	1	50	100	Johnson Part No.			
Right Angle to Right Angle Cables												
Low Profile UMC Right Angle Cable Plug to UMC Right Angle Cable Plug												
1	.081	2.0	50	J918-ND	3.58	3.18	2.52	415-0084-050				
			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				
Medium Profile UMC Right Angle Cable Plug to UMC Right Angle Cable Plug												
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				
1	1.13	2.5	50	J931-ND	5.20	4.62	3.66	415-0085-500				
			100	J932-ND	3.58	3.18	2.52	415-0086-050				
			150	J933-ND	3.75	3.34	2.64	415-0086-100				
			200	J934-ND	3.98	3.54	2.81	415-0086-150				
			250	J935-ND	4.12	3.66	2.90	415-0086-200				
			300	J936-ND	4.25	3.78	3.00	415-0086-250				
1	1.32	2.5	300	J937-ND	4.46	3.96	3.14	415-0086-300				
			500	J938-ND	5.20	4.62	3.66	415-0086-500				
			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				
1	1.37	2.5	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				
			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				
1	.81	2.0	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				
			Low Profile UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug									
			1	.81	2.0	150	J977-ND	15.20	13.51	10.70	415-0101-150	
250	J978-ND	15.42				13.71	10.86	415-0101-250				
Medium Profile UMC Right Angle Cable Plug to MMCX Right Angle Crimp Plug												
1	.81	2.5	150	J979-ND	15.20	13.51	10.70	415-0102-150				
			250	J980-ND	15.42	13.71	10.86	415-0102-250				
			150	J981-ND	14.82	13.18	10.43	415-0103-150				
1	1.37	2.5	250	J982-ND	15.12	13.44	10.64	415-0103-250				
			Right Angle to Straight Cables									
Low Profile UMC Right Angle Cable Plug to SMA Straight Crimp Plug												
2	.81	2.0	150	J953-ND	17.84	15.86	12.56	415-0089-150				
			250	J954-ND	18.18	16.17	12.80	415-0089-250				

Fig.	Coaxial Cable ø (mm)	Plug Mated Height (mm)	Dimension L (mm)	Digi-Key Part No.	Price Each	1	50	100	Johnson Part No.
Medium Profile UMC Right Angle Cable Plug to SMA Straight Crimp Plug									
2	.81	2.5	150	J955-ND	17.84	15.86	12.56	415-0090-150	
			250	J956-ND	18.18	16.17	12.80	415-0090-250	
	1.37	2.5	150	J957-ND	17.69	15.73	12.45	415-0091-150	
			250	J958-ND	17.92	15.93	12.61	415-0091-250	
Low Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Plug									
2	.81	2.0	150	J959-ND	17.05	15.16	12.00	415-0092-150	
			250	J960-ND	17.35	15.43	12.21	415-0092-250	
Medium Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Plug									
2	.81	2.5	150	J961-ND	17.05	15.16	12.00	415-0093-150	
			250	J962-ND	17.35	15.43	12.21	415-0093-250	
	1.37	2.5	150	J963-ND	15.20	13.51	10.70	415-0094-150	
			250	J964-ND	15.80	14.05	11.12	415-0094-250	
Low Profile UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack									
2	.81	2.0	150	J965-ND	15.80	14.05	11.12	415-0095-150	
			250	J966-ND	16.03	14.25	11.28	415-0095-250	
Medium Profile UMC Right Angle Cable Plug to SMA Straight Crimp Bulkhead Jack									
2	.81	2.5	150	J967-ND	15.80	14.05	11.12	415-0096-150	
			250	J968-ND	16.03	14.25	11.28	415-0096-250	
	1.37	2.5	150	J969-ND	17.24	15.33	12.13	415-0097-150	
			250	J970-ND	15.80	14.05	11.12	415-0097-250	
Low Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Bulkhead Jack									
2	.81	2.0	150	J971-ND	16.93	15.06	11.92	415-0098-150	
			250	J972-ND	17.16	15.26	12.08	415-0098-250	
Medium Profile UMC Right Angle Cable Plug to RP-SMA Straight Crimp Bulkhead Jack									
2	.81	2.5	150	J973-ND	16.93	15.06	11.92	415-0099-150	
			250	J974-ND	17.16	15.26	12.08	415-0099-250	
	1.37	2.5	150	J975-ND	16.71	14.86	11.76	415-0100-150	
			250	J976-ND	16.86	14.99	11.87	415-0100-250	
Low Profile UMC Right Angle Cable Plug to Bare End									
—	.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	
Medium Profile UMC Right Angle Cable Plug to Bare End									
—	.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	
Connectors and Accessories									
UMC PCB Jack Receptacle - Surface Mount									
3	Straight Jack Receptacle			J983CT-ND	1.03	.64	.47	128-0711-201	
				J983TR-ND	1160.00/2,500			128-0711-201	
SMA Conversion Adapters									
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	
Tool									
—	UMC Separation Key			J984-ND	3.78	3.36	2.66	128-0000-901	

NEW! Weatherproof F, BNC and RCA Compression Connectors for Audio/Video Installations

BNC, F and RCA connectors are constructed of zinc plated machined brass, and consist of a gold plated center pin allowing the best conductivity while providing picture perfect video and superior sound quality. **Note:** 1pc = pack of 10

Fig.	Description	Digi-Key Part No.	Price Each	1	50	100	Emerson Part No.
F Connectors							
1	RG-59, Blue	J10044-ND	9.76	7.10	6.39	25-2502-10PB	
	RG-6, Black	J10045-ND	9.76	7.10	6.39	25-2601-10PB	
	Gold Series, RG-59, Blue	J10056-ND	11.11	8.08	7.28	25-2502G-10PB	
BNC Connectors							
2	75Ω, RG-59, Blue	J10046-ND	38.01	27.64	24.88	28-2502-10PB	
	75Ω, RG-6, Black	J10047-ND	38.01	27.64	24.88	28-2601-10PB	
RCA Connectors							
3	RG-59, 2 per Color	J10048-ND†	26.92	19.58	17.63	19-2500-10PB	
	RG-59, Red	J10049-ND	26.92	19.58	17.63	19-2504-10PB	

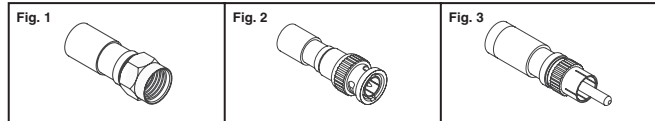


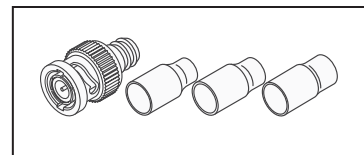
Fig.	Description	Digi-Key Part No.	Price Each	1	50	100	Emerson Part No.
3	RG-59, Yellow	J10050-ND	26.92	19.58	17.63	19-2505-10PB	
	RG-59, White	J10051-ND	26.92	19.58	17.63	19-2506-10PB	
	RG-6, 2 per Color	J10052-ND†	26.92	19.58	17.63	19-2600-10PB	
	RG-6, Red	J10053-ND	26.92	19.58	17.63	19-2604-10PB	
	RG-6, Yellow	J10054-ND	26.92	19.58	17.63	19-2605-10PB	
	RG-6, White	J10055-ND	26.92	19.58	17.63	19-2606-10PB	
Tool							
—	Adjustable 3-Way Ratchet Crimp Tool	J10057-ND	41.96	—	—	—	24-7714P

† Includes 2 each of blue, green, red, yellow and white

NEW! Multi-Ferrule BNC Connector

These commercial grade, 2-piece BNC connectors are designed for use on flexible 500Ω coaxial cable and are ideal for use in test equipment and instrumentation, CCTV, PC/LAN. Process controls applications and more. They have been designed around MIL-STD-202 with up to a 4GHz frequency range. By including multiple ferrules these connectors are designed to eliminate extra inventory on the shelf, while allowing termination of various cable sizes.

Description	Digi-Key Part No.	Price Each	1	50	100	Emerson Part No.
Crimp BNC Plug with 3 Ferrules	J10058-ND	2.64	1.92	1.73	27-9213	



More Product Available Online: www.digkey.com

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380



RF Connectors and Adapters

A

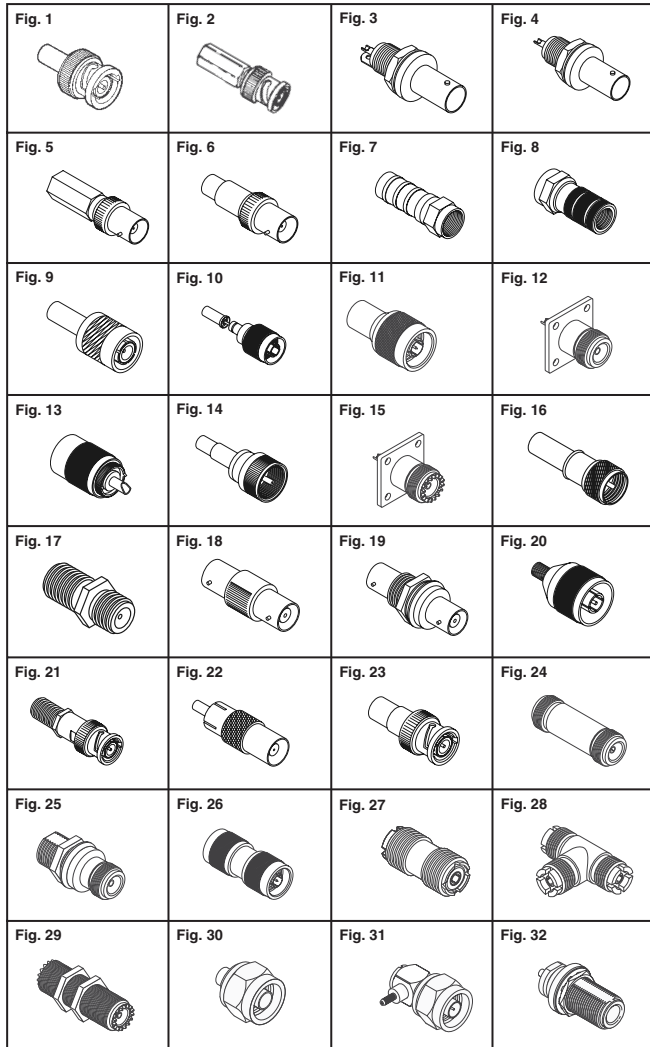


Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each	Emerson Part No.
Connectors						
True 75 Ohm BNC						
1	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	RG-6, Belden 8215 RG-179, 187, Belden 1520A	367-1069-ND 367-1072-ND	5.97 5.43 4.34 6.44 5.85 4.68	CPMC-68-5 CPMC-68-20
BNC						
1	Plug	Crimp-Type Push-On, 50Ω	RG-58	367-1001-ND	2.06 1.88 1.50	CP-88-1
			RG-59, 62	367-1002-ND	1.98 1.80 1.44	CP-88-2
			RG-6	367-1004-ND	2.12 1.93 1.54	CP-88-5
			RG-179, 187	367-1043-ND	2.61 2.38 1.90	CPM-88-20
1	Plug	Crimp-Type, Solder or Crimp Contact, 50Ω	RG-174, 188, 316	367-1044-ND	2.61 2.38 1.90	CPM-88-19
			RG-58, 141	367-1047-ND	2.61 2.38 1.90	CPMC-88-1
			RG-59, 62	367-1048-ND	2.61 2.38 1.90	CPMC-88-2
			RG-142, 223, 400, 55	367-1052-ND	2.61 2.38 1.90	CPMC-88-13
1	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	Belden 8218	367-1053-ND	2.61 2.38 1.90	CPMC-88-18
			Belden 8218, 1855A	367-1045-ND 367-1046-ND	2.61 2.38 1.90 2.61 2.38 1.90	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	1.98 1.80 1.44 1.95 1.78 1.42 1.87 1.70 1.36	CPFI-UG88-1 CPFI-UG88-2 CPFI-UG88-5
3	Jack	Front-Mnt. Bulkhead Jack with Solder Tab, 50Ω	—	367-1019-ND	3.03 2.75 2.20	CP-1094-AST
4	Jack	Front-Mnt. Bulkhead Jack without Solder Lug, 50Ω	—	367-1020-ND	3.03 2.75 2.20	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	2.06 1.88 1.50	CP-89-2

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each	Emerson Part No.
Type F						
7	Plug	Crimp-Type Plug	RG-6	367-1022-ND	.44 .40 .32	CPF-56-ALM
			RG-6 Quad Shield	367-1023-ND	.50 .45 .36	CPF-56-ALS
			RG-59	367-1025-ND	.44 .40 .32	CPF-59-ALM
8	Plug	Twist-On Plug (no Crimp)	RG-6	367-1027-ND	.47 .43 .34	CPFI-56
TNC						
9	Plug	Crimp-Type Plug Solder or Crimp	RG-58, 141	367-1056-ND	2.61 2.38 1.90	CPMC-TNC-13
			RG-142, 223, 400, 55	367-1057-ND	2.61 2.38 1.90	CPMC-TNC-13
			RG-8X (MINI 8)	367-1058-ND	2.61 2.38 1.90	CPMC-TNC-17
Type N						
10	Plug	Crimp-Type Plug	RG-58	367-1059-ND	5.39 4.90 3.92	CPN-1
			RG-142, TFE	367-1060-ND	5.39 4.90 3.92	CPN-142T
			RG-8, 213	367-1061-ND	5.39 4.90 3.92	CPN-8
			RG-8, 213	367-1062-ND	5.39 4.90 3.92	CPN-8/110
			Proflex RG-450	367-1063-ND	5.39 4.90 3.92	CPN-16
			RG-8X (MINI 8)	367-1066-ND	5.39 4.90 3.92	CPN-17
11	Plug	Crimp-Type Plug	RG-8, 213	367-1079-ND	7.89 7.18 5.74	CPN-68-8
			RG-58, Belden 9907	367-1080-ND	5.97 5.43 4.34	CPN-68-1
12	Jack	Flange Mount Jack	—	367-1081-ND	3.69 3.35 2.68	CPAD801
UHF						
13	Plug	Solder-Type, Standard	RG-8, 213	367-1010-ND	3.80 3.45 2.76	CP-AD-250
14	Plug	Crimp-Type, Crimp Contact	RG-58	367-1037-ND	3.22 2.93 2.34	CPL-259-1
			RG-59, 62	367-1038-ND	3.22 2.93 2.34	CPL-259-2
			RG-59, TFE	367-1040-ND	1.55 1.41 1.13	CPL-259-10
15	Jack	4-Hole Flange Mount Jack	—	367-1082-ND	1.84 1.68 1.34	CP-AD206
Mini-UHF						
16	Plug	Crimp-Type, Solder or Crimp Contact	RG-58	367-1064-ND	1.71 1.55 1.24	MINI-UHF-1
			RG-8X (MINI 8)	367-1066-ND	1.71 1.55 1.24	MINI-UHF-17

Fig.	Description	Digi-Key Part No.	Price Each	Emerson Part No.
Adapters				
F In-Series				
17	Jack to Jack Adapter, 3/4" In-line Splice	367-1026-ND	.39 .35 .28	CPF-81
BNC				
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	5.25 4.78 3.82	CP-AD-556M
Between Series				
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	2.48 2.25 1.80	CP-AD-516
22	BNC Jack to RCA Plug	367-1012-ND	1.76 1.60 1.28	CP-AD-501
23	BNC 50 Ohm Plug to RCA Jack	367-1013-ND	1.35 1.23 .98	CP-AD-515
Type N				
24	Jack to Jack Adapter	367-1087-ND	4.79 4.35 3.48	CP-AD850
25	Jack to Bulkhead Jack Adapter	367-1088-ND	4.79 4.35 3.48	CP-AD851
26	Plug to Plug Adapter	367-1089-ND	6.57 5.98 4.78	CP-AD800
UHF				
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 5.58 4.46	CP-AD207

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each	Johnson Part No.
11 GHz, MIL-PRF-39012, Connectors						
Type N						
30	Plug	Straight Crimp	RG-58/U, 141, 303	J841-ND	15.28 13.40 11.52	138-4407-007
			RG-213, 8/U	J842-ND	16.90 14.82 12.74	138-4416-007
			RG-214, 9/U	J843-ND	16.58 14.54 12.50	138-4418-007
			RG-142, 55/U, 223, 400	J844-ND	15.28 13.40 11.52	138-4408-007
			RG-316, 161/U, 174, 188	J845-ND	19.50 17.10 14.70	138-4403-007
			RG-316 DS, 188 DS	J846-ND	20.15 17.67 15.19	138-4404-007
	Plug	Straight Solder	LMR-400, Belden 9913	J847-ND	16.25 14.25 12.25	138-4449-007
			RG-401, 250 Semi-Rigid	J854-ND	16.41 14.65 12.60	138-4696-001
			RG-402, 141 Semi-Rigid	J855-ND	16.45 14.43 12.40	138-4694-001
			RG-405, 086 Semi-Rigid	J856-ND	16.45 14.43 12.40	138-4693-001
			RG-401, 250 Semi-Rigid	J857-ND	16.51 14.48 12.45	138-4696-011
			RG-402, 141 Semi-Rigid	J858-ND	21.78 19.10 16.42	138-4694-011
31	Plug	Right-Angle Crimp	RG-405, 086 Semi-Rigid	J859-ND	17.36 15.22 13.09	138-4693-011
			RG-58/U, 141, 303	J848-ND	25.68 22.52 19.36	138-4407-107
			RG-213, 8/U	J849-ND	21.45 18.81 16.17	138-4416-107
			RG-214, 9/U	J850-ND	21.45 18.81 16.17	138-4418-107
			RG-142, 55/U, 223, 400	J851-ND	25.68 22.52 19.36	138-4408-107
			RG-316, 161/U, 174, 188	J852-ND	24.70 21.66 18.62	138-4403-107
	Jack	Straight Crimp	RG-316 DS, 188 DS	J853-ND	25.35 22.23 19.11	138-4404-107
			RG-58/U, 141, 303	J860-ND	20.09 17.62 15.15	138-4307-407
			RG-214, 9/U	J862-ND	20.15 17.67 15.19	138-4318-407
			RG-142, 55/U, 223, 400	J863-ND	20.09 17.62 15.15	138-4308-407
			RB-316, 161/U, 174, 188	J864-ND	25.68 22.52 19.36	138-4303-407
			RG-316 DS, 188 DS	J865-ND	25.68 22.52 19.36	138-4304-407
Jack	Straight Solder	LMR-400, Belden 9913	J866-ND	20.35 17.85 15.34	138-4349-407	
		RG-405, 086 Semi-Rigid	J869-ND	22.43 19.67 16.91	138-4593-401	

Fig.	Description	Digi-Key Part No.	Price Each	Johnson Part No.
18 GHz, MIL-PRF-39012, Adapters				
Type N				
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

More Product Available Online: www.digkey.com