

# RF Cable Assembly Guide



## Electrical Ratings

Electrical ratings of a cable assembly are determined by the limiting connector type and cable size.

Connector	Cable	Connector Frequency Impedance (Ohms)	GHz	Dielectric Withstanding Voltage (Vms)	Working Voltage (Vms)
<b>MMCX</b>	RG-178	50 Ohms	6 GHz	500 Vms	170 Vms
	RG-316	50 Ohms	6 GHz	500 Vms	170 Vms
<b>MCX</b>	RG-178	50 Ohms	6 GHz	750 Vms	250 Vms
	RG-316	50 Ohms	6 GHz	1000 Vms	335 Vms
	RG-316 DS	50 Ohms	6 GHz	1000 Vms	335 Vms
<b>MCX 75 Ohm</b>	RG-179	75 Ohms	6 GHz	1000 Vms	335 Vms
	BELDEN 735A	75 Ohms	6 GHz	1000 Vms	335 Vms
<b>SMA</b>	RG-178	50 Ohms	12.4 GHz	500 Vms	170 Vms
	RG-316	50 Ohms	12.4 GHz	750 Vms	250 Vms
	RG-316 DS	50 Ohms	12.4 GHz	750 Vms	250 Vms
	RG-58	50 Ohms	12.4 GHz	1000 Vms	335 Vms
	RG-142	50 Ohms	12.4 GHz	1000 Vms	335 Vms
	Hand Formable .086	50 Ohms	26.5 GHz	1000 Vms	335 Vms
	Hand Formable .141	50 Ohms	26.5 GHz	1500 Vms	500 Vms
<b>SMB</b>	RG-178	50 Ohms	4 GHz	750 Vms	250 Vms
	RG-316	50 Ohms	4 GHz	1000 Vms	335 Vms
<b>SMB Mini 75 Ohm</b>	RG-179	75 Ohms	2 GHz	1000 Vms	335 Vms
	RG-179 DS	75 Ohms	2 GHz	1000 Vms	335 Vms
	BELDEN 735A	75 Ohms	2 GHz	1000 Vms	335 Vms
<b>BNC</b>	RG-58	50 Ohms	4 GHz	1500 Vms	500 Vms
	BELDEN 8218	50 Ohms	4 GHz	1500 Vms	500 Vms
	RG-59	50 Ohms	4 GHz	1500 Vms	500 Vms
	RG-59 PLENUM	50 Ohms	4 GHz	1500 Vms	500 Vms
<b>BNC True 75 Ohm</b>	BELDEN 8218	75 Ohms	3 GHz	1500 Vms	500 Vms
	RG-59	75 Ohms	3 GHz	1500 Vms	500 Vms
	BELDEN 8281	75 Ohms	3 GHz	1500 Vms	500 Vms
	COMM SCOPE 735	75 Ohms	3 GHz	1500 Vms	500 Vms
	BELDEN 735A	75 Ohms	3 GHz	1500 Vms	500 Vms
	BELDEN 734A	75 Ohms	3 GHz	1500 Vms	500 Vms
	BELDEN 1694A	75 Ohms	3 GHz	1500 Vms	500 Vms
<b>N Type</b>	RG-58	50 Ohms	11 GHz	1500 Vms	500 Vms
	RG-142	50 Ohms	11 GHz	1500 Vms	500 Vms
	RG-8	50 Ohms	11 GHz	1500 Vms	500 Vms
	RG-213	50 Ohms	11 GHz	1500 Vms	500 Vms

## Cable Length Tolerance

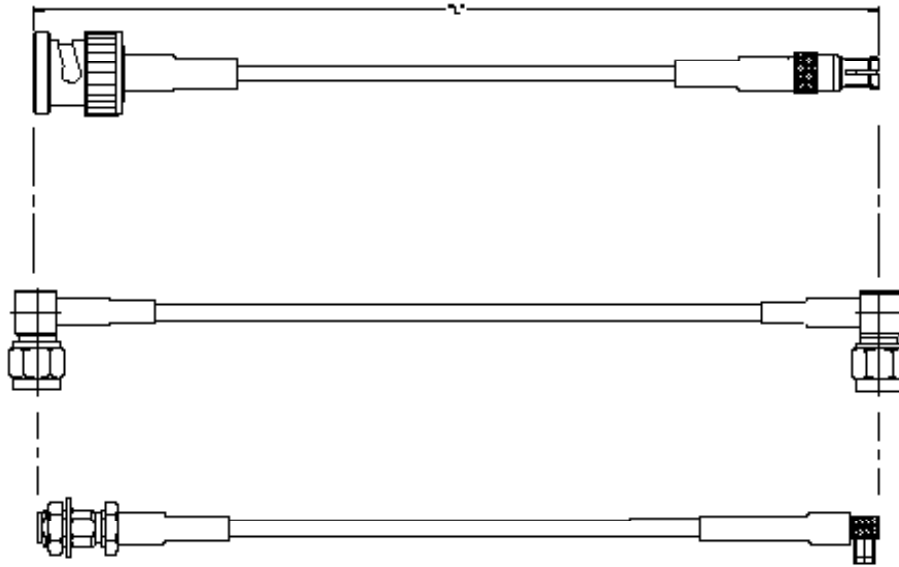
Standard Cable Length	Cable Tolerance	Metric Cable Length	Cable Tolerance
≤1 ft	+1 in - 0.25 in	≤0.3 m	+25 mm - 6 mm
>1 ft - 5 ft	+2 in - 1 in	>0.3 m - 1.5 m	+50 mm - 25 mm
>5 ft - 10 ft	+4 in - 2 in	>1.5 m - 3 m	+100 mm - 50 mm
>10 ft - 25 ft	+6 in - 3 in	>3 m - 7.5 m	+150 mm - 75 mm
>25 ft	+2 % - 1 %	>7.5 m	+2 % - 1 %

## Custom Solutions

Johnson offers more than 500 standard fixed length cable assemblies, with various connector configurations and lengths. Johnson also has more than 400 custom cable assemblies, which were designed to meet customer design specification requirements. If you do not see the cable assembly you require, we can design and manufacture one to meet your unique specifications.

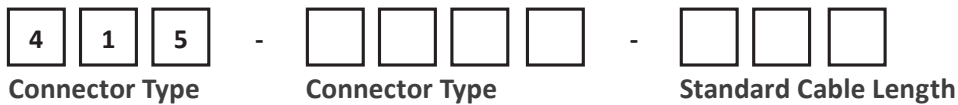
- Available Cable Options: Flexible, Semi-Rigid and Conformable
- CNC Hardline Bender (Semi-Rigid Cables)
- Available Connector Options: Standard and Custom
- Voltage/Continuity Tested
- 0 to 40 GHz
- 50 and 75 Ohms
- Prototype available upon request

## Measurements of Cable Length

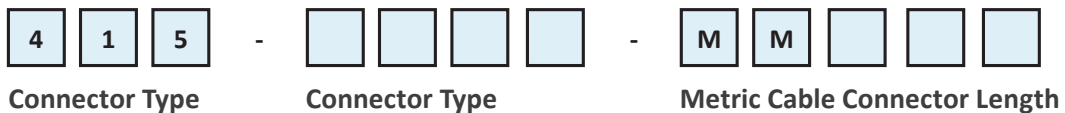


Johnson’s cable length applies to the end of straight connectors. The length is applied to the vertical centroid of right angle connectors.

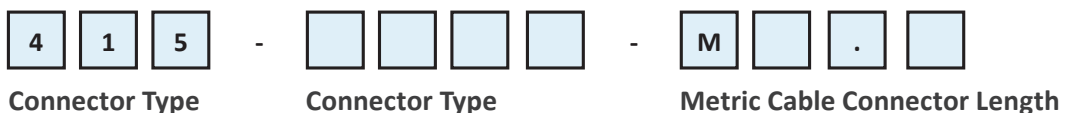
## Part Number Index



Part Number Example: 415-0037-012  
 Part Number Description: 12" length cable



Part Number Example: 415-0037-MM150  
 Part Number Description: 150 mm length cable



Part Number Example: 415-0037-M1.5  
 Part Number Description: 1.5 m length cable

## MMCX Straight Plug to MMCX Straight Plug

Connector by Cable Type: **RG-178** (135-3402-001) **RG-316** (135-3403-001)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0066-006	6"	152 mm	RG-178	415-0067-006	6"	152 mm	RG-316
415-0066-012	12"	305 mm	RG-178	415-0067-012	12"	305 mm	RG-316
415-0066-018	18"	457 mm	RG-178	415-0067-018	18"	457 mm	RG-316
415-0066-024	24"	610 mm	RG-178	415-0067-024	24"	610 mm	RG-316

## MMCX Right Angle Plug to MMCX Right Angle Plug

Connector by Cable Type: **RG-178** (135-3402-101) **RG-316** (135-3403-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0068-MM150	5.9"	150 mm	RG-178	415-0069-MM150	5.9"	150 mm	RG-316
415-0068-006	6"	152 mm	RG-178	415-0069-006	6"	152 mm	RG-316
415-0068-MM250	9.84"	250 mm	RG-178	415-0069-MM250	9.84"	250 mm	RG-316
415-0068-012	12"	305 mm	RG-178	415-0069-012	12"	305 mm	RG-316
415-0068-018	18"	457 mm	RG-178	415-0069-018	18"	457 mm	RG-316
415-0068-MM500	19.7"	500 mm	RG-178	415-0069-MM500	19.7"	500 mm	RG-316
415-0068-024	24"	610 mm	RG-178	415-0069-024	24"	610 mm	RG-316
415-0068-MM750	29.53"	750 mm	RG-178	415-0069-MM750	29.53"	750 mm	RG-316

## MMCX Straight Plug to SMA Straight Bulkhead Jack

Connector by Cable Type: **RG-178** (135-3402-001, 142-0302-431) **RG-316** (135-3403-001, 142-0303-411)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0070-MM150	5.9"	150 mm	RG-178	415-0071-MM150	5.9"	150 mm	RG-316
415-0070-006	6"	152 mm	RG-178	415-0071-006	6"	152 mm	RG-316
415-0070-MM250	9.84"	250 mm	RG-178	415-0071-MM250	9.84"	250 mm	RG-316
415-0070-012	12"	305 mm	RG-178	415-0071-012	12"	305 mm	RG-316
415-0070-018	18"	457 mm	RG-178	415-0071-018	18"	457 mm	RG-316
415-0070-MM500	19.7"	500 mm	RG-178	415-0071-MM500	19.7"	500 mm	RG-316
415-0070-024	24"	610 mm	RG-178	415-0071-024	24"	610 mm	RG-316
415-0070-MM750	29.53"	750 mm	RG-178	415-0071-MM750	29.53"	750mm	RG-316
415-0070-036	36"	914 mm	RG-178	415-0071-036	36"	914 mm	RG-316
415-0070-M1.0	39.4"	1000 mm	RG-178	415-0071-M1.0	39.4"	1000 mm	RG-316

## MMCX Right Angle Plug to SMA Straight Bulkhead Jack

Connector by Cable Type: **RG-178** (135-3402-101, 142-0302-431) **RG-316** (135-3403-101, 142-0303-411)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0072-006	6"	152 mm	RG-178	415-0073-MM150	5.9"	150 mm	RG-316
415-0072-012	12"	305 mm	RG-178	415-0073-006	6"	152 mm	RG-316
415-0072-018	18"	457 mm	RG-178	415-0073-MM250	9.84"	250 mm	RG-316
415-0072-024	24"	610 mm	RG-178	415-0073-012	12"	305 mm	RG-316
415-0072-036	36"	914 mm	RG-178	415-0073-018	18"	457 mm	RG-316
				415-0073-MM500	19.7"	500 mm	RG-316
				415-0073-024	24"	610 mm	RG-316
				415-0073-MM750	29.53"	750mm	RG-316
				415-0073-036	36"	914 mm	RG-316
				415-0073-M1.0	39.4"	1000 mm	RG-316

## MCX Straight Plug to MCX Straight Plug

Connector by Cable Type: **RG-178** (133-3402-021) **RG-316** (133-3403-001) **RG-316 DS** (133-3404-001)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0014-006	6"	152 mm	RG-178	415-0018-024	24"	610 mm	RG-316
415-0014-012	12"	305 mm	RG-178	415-0018-030	30"	762 mm	RG-316
415-0014-018	18"	457 mm	RG-178	415-0018-036	36"	914 mm	RG-316
415-0014-024	24"	610 mm	RG-178	415-0020-006	6"	152 mm	RG-316 DS
415-0014-030	30"	762 mm	RG-178	415-0020-012	12"	305 mm	RG-316 DS
415-0014-036	36"	914 mm	RG-178	415-0020-018	18"	457 mm	RG-316 DS
415-0018-006	6"	152 mm	RG-316	415-0020-024	24"	610 mm	RG-316 DS
415-0018-012	12"	305 mm	RG-316	415-0020-030	30"	762 mm	RG-316 DS
415-0018-018	18"	457 mm	RG-316	415-0020-036	36"	914 mm	RG-316 DS

## MCX Straight Plug to MCX Straight Bulkhead Jack

Connector by Cable Type: **RG-316** (133-3403-001, 133-3303-401)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0016-MM150	5.9"	150 mm	RG-316	415-0016-MM500	19.7"	500 mm	RG-316
415-0016-006	6"	152 mm	RG-316	415-0016-024	24"	610 mm	RG-316
415-0016-MM250	9.84"	250 mm	RG-316	415-0016-MM750	29.53"	750 mm	RG-316
415-0016-012	12"	305 mm	RG-316	415-0016-030	30"	762 mm	RG-316
415-0016-018	18"	457 mm	RG-316	415-0016-036	36"	914 mm	RG-316
				415-0016-M1.0	39.4"	1000 mm	RG-316

## MCX Straight Plug to MCX Right Angle Plug

Connector by Cable Type: **RG-316** (133-3403-001, 133-3403-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0017-006	6"	152 mm	RG-316	415-0017-024	24"	610 mm	RG-316
415-0017-012	12"	305 mm	RG-316	415-0017-030	30"	762 mm	RG-316
415-0017-018	18"	457 mm	RG-316	415-0017-036	36"	914 mm	RG-316

## MCX Right Angle Plug to MCX Right Angle Plug

Connector by Cable Type: **RG-178** (133-3402-101) **RG-316** (133-3403-101) **RG-316 DS** (133-3404-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0015-MM150	5.9"	150 mm	RG-178	415-0019-MM250	9.84"	250 mm	RG-316
415-0015-006	6"	152 mm	RG-178	415-0019-012	12"	305 mm	RG-316
415-0015-MM250	9.84"	250 mm	RG-178	415-0019-024	24"	610 mm	RG-316
415-0015-012	12"	305 mm	RG-178	415-0019-MM750	29.53"	750 mm	RG-316
415-0015-018	18"	457 mm	RG-178	415-0019-036	36"	914 mm	RG-316
415-0015-MM500	19.7"	500 mm	RG-178	415-0019-M1.0	39.4"	1000 mm	RG-316
415-0015-024	24"	610 mm	RG-178	415-0021-006	6"	152 mm	RG-316 DS
415-0015-MM750	29.53"	750 mm	RG-178	415-0021-012	12"	305 mm	RG-316 DS
415-0015-036	36"	914 mm	RG-178	415-0021-018	18"	457 mm	RG-316 DS
415-0015-M1.0	39.4"	1000 mm	RG-178	415-0021-024	24"	610 mm	RG-316 DS
415-0019-MM150	5.9"	150 mm	RG-316	415-0021-036	36"	914 mm	RG-316 DS
415-0019-006	6"	152 mm	RG-316				

## MCX 75 Ohm Straight Plug to MCX 75 Ohm Straight Plug

Connector by Cable Type: **RG-179** (133-8433-001) **Belden 735A** (133-8445-001)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0022-006	6"	152 mm	RG-179	415-0023-006	6"	152 mm	Belden 735A
415-0022-012	12"	305 mm	RG-179	415-0023-012	12"	305 mm	Belden 735A
415-0022-018	18"	457 mm	RG-179	415-0023-018	18"	457 mm	Belden 735A
415-0022-024	24"	610 mm	RG-179	415-0023-024	24"	610 mm	Belden 735A
415-0022-030	30"	762 mm	RG-179	415-0023-030	30"	762 mm	Belden 735A
415-0022-036	36"	914 mm	RG-179	415-0023-036	36"	914 mm	Belden 735A

## MCX 75 Ohm Right Angle Plug to MCX 75 Ohm Right Angle Plug

Connector by Cable Type: **Belden 735A** (133-8445-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0024-006	6"	152 mm	Belden 735A	415-0024-024	24"	610 mm	Belden 735A
415-0024-012	12"	305 mm	Belden 735A	415-0024-030	30"	762 mm	Belden 735A
415-0024-018	18"	457 mm	Belden 735A	415-0024-036	36"	914 mm	Belden 735A

## SMA Straight Plug to SMA Straight Plug

Connector by Cable Type: **RG-178** (142-0402-011) **RG-316** (142-0403-011) **RG-316 DS** (142-0404-011) **RG-58** (142-0407-011) **RG-142** (142-0408-011)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0025-MM150	5.9"	150 mm	RG-178	415-0033-012	12"	305 mm	RG-316 DS
415-0025-006	6"	152 mm	RG-178	415-0033-018	18"	457 mm	RG-316 DS
415-0025-MM250	9.84"	250 mm	RG-178	415-0033-MM500	19.7"	500 mm	RG-316 DS
415-0025-012	12"	305 mm	RG-178	415-0033-024	24"	610 mm	RG-316 DS
415-0025-018	18"	457 mm	RG-178	415-0033-MM750	29.53"	750 mm	RG-316 DS
415-0025-MM500	19.7"	500 mm	RG-178	415-0033-036	36"	914 mm	RG-316 DS
415-0025-024	24"	610 mm	RG-178	415-0033-048	48"	1219 mm	RG-316 DS
415-0025-MM750	29.53"	750 mm	RG-178	415-0033-M1.0	39.4"	1000 mm	RG-316 DS
415-0025-036	36"	914 mm	RG-178	415-0033-M1.5	59.1"	1500 mm	RG-316 DS
415-0025-048	48"	1219 mm	RG-178	415-0033-M2.0	78.7"	2000 mm	RG-316 DS
415-0025-M1.0	39.4"	1000 mm	RG-178	415-0038-MM250	9.84"	250 mm	RG-58
415-0025-M1.5	59.1"	1500 mm	RG-178	415-0038-012	12"	305 mm	RG-58
415-0029-MM150	5.9"	150 mm	RG-316	415-0038-MM500	19.7	500 mm	RG-58
415-0029-006	6"	152 mm	RG-316	415-0038-024	24"	610 mm	RG-58
415-0029-MM250	9.84"	250 mm	RG-316	415-0038-036	24"	762 mm	RG-58
415-0029-012	12"	305 mm	RG-316	415-0038-048	36"	914 mm	RG-58
415-0029-018	18"	457 mm	RG-316	415-0038-M1.0	39.4"	1000 mm	RG-58
415-0029-MM500	19.7"	500 mm	RG-316	415-0038-M1.5	59.1"	1500 mm	RG-58
415-0029-024	24"	610 mm	RG-316	415-0038-060	60"	1524 mm	RG-58
415-0029-MM750	29.53"	750 mm	RG-316	415-0038-M2.0	78.7"	2000 mm	RG-58
415-0029-036	36"	914 mm	RG-316	415-0043-MM250	9.84"	250 mm	RG-142
415-0029-048	48"	1219 mm	RG-316	415-0043-012	12"	305 mm	RG-142
415-0029-M1.0	39.4"	1000 mm	RG-316	415-0043-MM500	19.7	500 mm	RG-142
415-0029-M1.5	59.1"	1500 mm	RG-316	415-0043-024	24"	610 mm	RG-142
415-0029-M2.0	78.7"	2000 mm	RG-316	415-0043-036	36"	914 mm	RG-142
415-0029-M3.0	118.1"	3000 mm	RG-316	415-0043-M1.0	39.4"	1000 mm	RG-142
415-0033-MM150	5.9"	150 mm	RG-316 DS	415-0043-048	48"	1219 mm	RG-142
415-0033-006	6"	152 mm	RG-316 DS	415-0043-M1.5	59.1"	1500 mm	RG-142
415-0033-MM250	9.84"	250 mm	RG-316 DS	415-0043-060	60"	1524 mm	RG-142

## SMA Straight Hand Formable Plug to SMA Straight Hand Formable Plug

Connector by Cable Type: **0.086 Conformable** (142-0693-001)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0081-MM75	2.95"	75 mm	.086
415-0081-003	3"	76 mm	.086
415-0081-MM100	3.93"	100 mm	.086
415-0081-004	4"	102 mm	.086
415-0081-MM125	4.9"	125 mm	.086
415-0081-005	5"	127 mm	.086
415-0081-MM150	5.9"	150 mm	.086
415-0081-006	6"	152 mm	.086
415-0081-MM175	6.89"	175 mm	.086

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0081-007	7"	178 mm	.086
415-0081-MM200	7.87"	200 mm	.086
415-0081-008	8"	203 mm	.086
415-0081-MM250	9.84"	250 mm	.086
415-0081-012	12"	305 mm	.086
415-0081-018	18"	457 mm	.086
415-0081-MM500	19.7"	500 mm	.086
415-0081-024	24"	610 mm	.086
415-0081-MM750	29.53"	750 mm	.086

## SMA Straight Hand Formable Plug to SMA Straight Hand Formable Plug

Connector by Cable Type: **0.141 Conformable** (142-0694-001)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0082-MM75	2.95"	75 mm	.141
415-0082-003	3"	76 mm	.141
415-0082-MM100	3.93"	100 mm	.141
415-0082-004	4"	102 mm	.141
415-0082-MM125	4.9"	125 mm	.141
415-0082-005	5"	127 mm	.141
415-0082-MM150	5.9"	150 mm	.141
415-0082-006	6"	152 mm	.141
415-0082-MM175	6.89"	175 mm	.141

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0082-007	7"	178 mm	.141
415-0082-MM200	7.87"	200 mm	.141
415-0082-008	8"	203 mm	.141
415-0082-MM250	9.84"	250 mm	.141
415-0082-012	12"	305 mm	.141
415-0082-018	18"	457 mm	.141
415-0082-MM500	19.7"	500 mm	.141
415-0082-024	24"	610 mm	.141
415-0082-MM750	29.53"	750 mm	.141

## SMA Straight Plug to SMA Straight Bulkhead Jack

Connector by Cable Type: **RG-316** (142-0403-011, 142-0303-411) **RG-316 DS** (142-0404-011, 142-0304-411) **RG-58** (142-0407-011, 142-0307-411) **RG-142** (142-0408-011, 142-0308-411)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0031-MM150	5.9"	150 mm	RG-316
415-0031-006	6"	152 mm	RG-316
415-0031-MM250	9.84"	250 mm	RG-316
415-0031-012	12"	305 mm	RG-316
415-0031-018	18"	457 mm	RG-316
415-0031-MM500	19.7"	500 mm	RG-316
415-0031-024	24"	610 mm	RG-316
415-0031-MM750	29.53"	750 mm	RG-316
415-0031-036	36"	914 mm	RG-316
415-0031-M1.0	39.4"	1000 mm	RG-316
415-0031-048	48"	1219 mm	RG-316
415-0031-M1.5	59.1"	1500 mm	RG-316
415-0035-006	6"	152 mm	RG-316 DS
415-0035-012	12"	305 mm	RG-316 DS

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0035-018	18"	457 mm	RG-316 DS
415-0035-024	24"	610 mm	RG-316 DS
415-0035-036	36"	914mm	RG-316 DS
415-0035-048	48"	1219mm	RG-316 DS
415-0040-012	12"	305 mm	RG-58
415-0040-024	24"	610 mm	RG-58
415-0040-036	36"	914 mm	RG-58
415-0040-048	48"	1219 mm	RG-58
415-0040-060	60"	1524 mm	RG-58
415-0045-012	12"	305 mm	RG-142
415-0045-024	24"	610 mm	RG-142
415-0045-036	36"	914mm	RG-142
415-0045-048	48"	1219 mm	RG-142
415-0045-060	60"	1524 mm	RG-142

## SMA Straight Plug to SMA Right Angle Plug

Connector by Cable Type: **RG-178** (142-0402-011, 142-0402-101) **RG-316** (142-0403-011, 142-0403-101) **RG-316 DS** (142-0404-011, 142-0404-101) **RG-142** (142-0408-011, 142-0408-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0026-006	6"	152 mm	RG-178
415-0026-012	12"	305 mm	RG-178
415-0026-018	18"	457 mm	RG-178
415-0026-024	24"	610 mm	RG-178
415-0026-036	36"	914mm	RG-178
415-0026-048	48"	152 mm	RG-178
415-0030-MM150	5.9"	150 mm	RG-316
415-0030-006	6"	152 mm	RG-316
415-0030-MM250	9.84"	250 mm	RG-316
415-0030-012	12"	305 mm	RG-316
415-0030-018	18"	457 mm	RG-316
415-0030-MM500	19.7"	500 mm	RG-316
415-0030-024	24"	610 mm	RG-316
415-0030-MM750	29.53"	750 mm	RG-316
415-0030-036	36"	914 mm	RG-316
415-0030-M1.0	39.4"	1000 mm	RG-316
415-0030-048	48"	1219 mm	RG-316
415-0030-M1.5	59.1"	1500 mm	RG-316

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0034-MM150	5.9"	150 mm	RG-316 DS
415-0034-006	6"	152 mm	RG-316 DS
415-0034-MM250	9.84"	250 mm	RG-316 DS
415-0034-012	12"	305 mm	RG-316 DS
415-0034-018	18"	457 mm	RG-316 DS
415-0034-MM500	19.7"	500 mm	RG-316 DS
415-0034-024	24"	610 mm	RG-316 DS
415-0034-MM750	29.53"	750 mm	RG-316 DS
415-0034-036	36"	914 mm	RG-316 DS
415-0034-M1.0	39.4"	1000 mm	RG-316 DS
415-0034-048	48"	1219 mm	RG-316 DS
415-0034-M1.5	59.1"	1500 mm	RG-316 DS
415-0044-012	12"	305 mm	RG-142
415-0044-024	24"	610 mm	RG-142
415-0044-036	36"	914mm	RG-142
415-0044-048	48"	1219 mm	RG-142
415-0004-060	60"	1524 mm	RG-142

## SMA Right Angle Plug to SMA Right Angle Plug

Connector by Cable Type: **RG-178** (142-0402-101) **RG-316** (142-0403-101) **RG-316 DS** (142-0404-101) **RG-58** (142-0407-101) **RG-142** (142-0408-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0027-MM150	5.9"	150 mm	RG-178
415-0027-006	6"	152 mm	RG-178
415-0027-MM250	9.84"	250 mm	RG-178
415-0027-012	12"	305 mm	RG-178
415-0027-024	24"	610 mm	RG-178
415-0027-MM750	29.53"	750 mm	RG-178
415-0027-036	36"	914 mm	RG-178
415-0027-M1.0	39.4"	1000 mm	RG-178
415-0027-048	48"	1219 mm	RG-178
415-0027-M1.5	59.1"	1500 mm	RG-178
415-0032-MM150	5.9"	150 mm	RG-316
415-0032-006	6"	152 mm	RG-316
415-0032-MM250	9.84"	250 mm	RG-316
415-0032-012	12"	305 mm	RG-316
415-0032-MM500	19.7"	500 mm	RG-316
415-0032-018	18"	457 mm	RG-316
415-0032-024	24"	610 mm	RG-316
415-0032-MM750	29.53"	750 mm	RG-316
415-0032-036	36"	914 mm	RG-316

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0032-M1.0	39.4"	1000 mm	RG-316
415-0032-048	48"	1219 mm	RG-316
415-0032-M1.5	59.1"	1500 mm	RG-316
415-0036-006	6"	152 mm	RG-316 DS
415-0036-012	12"	305 mm	RG-316 DS
415-0036-018	18"	457 mm	RG-316 DS
415-0036-024	24"	610 mm	RG-316 DS
415-0036-036	36"	914 mm	RG-316 DS
415-0036-048	48"	1219 mm	RG-316 DS
415-0041-012	12"	305 mm	RG-58
415-0041-024	24"	610 mm	RG-58
415-0041-036	36"	914mm	RG-58
415-0041-048	48"	1219 mm	RG-58
415-0041-060	60"	1524 mm	RG-58
415-0046-012	12"	305 mm	RG-142
415-0046-024	24"	610 mm	RG-142
415-0046-036	36"	914mm	RG-142
415-0046-048	48"	1219 mm	RG-142
415-0046-060	60"	1524 mm	RG-142



## SMA Right Angle Plug to SMA Straight Bulkhead Jack

Connector by Cable Type: **RG-316** (142-0403-101, 142-0303-411) **RG-316 DS** (142-0404-101, 142-0304-411) **RG-142** (142-0408-101, 142-0308-411)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0074-006	6"	152 mm	RG-316	415-0064-036	36"	914 mm	RG-316 DS
415-0074-012	12"	305 mm	RG-316	415-0064-048	48"	1219 mm	RG-316 DS
415-0074-024	24"	610 mm	RG-316	415-0075-006	6"	152 mm	RG-142
415-0074-036	36"	914 mm	RG-316	415-0075-012	12"	305 mm	RG-142
415-0074-048	48"	1219 mm	RG-316	415-0075-024	24"	610 mm	RG-142
415-0064-006	6"	152 mm	RG-316 DS	415-0075-036	36"	914 mm	RG-142
415-0064-012	12"	305 mm	RG-316 DS	415-0075-048	48"	1219 mm	RG-142
415-0064-024	24"	610 mm	RG-316 DS				

## SMA Quick-Connect Straight Plug to SMA Quick-Connect Straight Plug

Connector by Cable Type: **RG-316** (142-1403-001) **RG-316 DS** (142-1404-001) **RG-142** (142-1408-001)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0065-006	6"	152 mm	RG-316	415-0076-012	12"	305 mm	RG-316 DS
415-0065-012	12"	305 mm	RG-316	415-0076-024	24"	610 mm	RG-316 DS
415-0065-018	18"	457 mm	RG-316	415-0076-036	36"	914 mm	RG-316 DS
415-0065-024	24"	610 mm	RG-316	415-0077-012	12"	305 mm	RG-142
415-0065-036	36"	914 mm	RG-316	415-0077-024	24"	610 mm	RG-142
415-0065-048	48"	1219 mm	RG-316	415-0077-036	36"	914 mm	RG-142

## SMA Quick-Connect Straight Plug to SMA Straight Plug

Connector by Cable Type: **RG-316 DS** (142-1404-001, 142-0404-011) **RG-142** (142-1408-001, 142-0408-011)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0078-012	12"	305 mm	RG-316 DS	415-0079-012	12"	305 mm	RG-142
415-0078-024	24"	610 mm	RG-316 DS	415-0079-024	24"	610 mm	RG-142
415-0078-036	36"	914 mm	RG-316 DS	415-0079-036	36"	914 mm	RG-142

## SMA Straight Bulkhead Jack to Right Angle MCX Plug

Connector by Cable Type: **RG-316 DS** (142-0304-411, 133-3404-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0181-006	6"	152 mm	RG-316 DS	415-0181-036	36"	914 mm	RG-316 DS
415-0181-012	12"	305 mm	RG-316 DS	415-0181-048	48"	1219 mm	RG-316 DS
415-0181-024	24"	610 mm	RG-316 DS	415-0181-060	60"	1524 mm	RG-316 DS

## SMB Straight Plug to SMB Straight Plug

Connector by Cable Type: **RG-316** (131-1403-001)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0003-MM150	5.9"	150 mm	RG-316
415-0003-006	6"	152 mm	RG-316
415-0003-MM250	9.84"	250 mm	RG-316
415-0003-012	12"	305 mm	RG-316
415-0003-018	18"	457 mm	RG-316

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0003-MM500	19.7"	500 mm	RG-316
415-0003-024	24"	610 mm	RG-316
415-0003-MM750	29.53"	750 mm	RG-316
415-0003-036	36"	914 mm	RG-316
415-0003-M1.0	39.4"	1000 mm	RG-316

## SMB Straight Plug to SMB Right Angle Plug

Connector by Cable Type: **RG-178** (131-3402-001, 131-1402-101) **RG-316** (131-1403-001, 131-1403-101) **RG-316 DS** (131-1404-001, 131-1404-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0007-006	6"	152 mm	RG-178
415-0007-012	12"	305 mm	RG-178
415-0007-018	18"	457 mm	RG-178
415-0007-024	24"	610 mm	RG-178
415-0007-030	30"	762 mm	RG-178
415-0007-036	36"	914 mm	RG-178
415-0002-006	6"	152 mm	RG-316
415-0002-012	12"	305 mm	RG-316
415-0002-018	18"	457 mm	RG-316

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0002-024	24"	610 mm	RG-316
415-0002-030	30"	762 mm	RG-316
415-0002-036	36"	914 mm	RG-316
415-0005-006	6"	152 mm	RG-316 DS
415-0005-012	12"	305 mm	RG-316 DS
415-0005-018	18"	457 mm	RG-316 DS
415-0005-024	24"	610 mm	RG-316 DS
415-0005-030	30"	762 mm	RG-316 DS
415-0005-036	36"	914 mm	RG-316 DS

## SMB Right Angle Plug to SMB Right Angle Plug

Connector by Cable Type: **RG-178** (131-1402-101) **RG-316** (131-1403-101) **RG-316 DS** (131-1404-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0001-MM150	5.9"	150 mm	RG-178
415-0001-006	6"	152 mm	RG-178
415-0001-MM250	9.84"	250 mm	RG-178
415-0001-012	12"	305 mm	RG-178
415-0001-018	18"	457 mm	RG-178
415-0001-MM500	19.7"	500 mm	RG-178
415-0001-024	24"	610 mm	RG-178
415-0001-MM750	29.53"	750 mm	RG-178
415-0001-030	30"	762 mm	RG-178
415-0001-036	36"	914 mm	RG-178
415-0001-M1.0	39.4"	1000 mm	RG-178
415-0004-MM150	5.9"	150 mm	RG-316
415-0004-006	6"	152 mm	RG-316
415-0004-MM250	9.84"	250 mm	RG-316

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0004-012	12"	305 mm	RG-316
415-0004-018	18"	457 mm	RG-316
415-0004-MM500	19.7"	500 mm	RG-316
415-0004-024	24"	610 mm	RG-316
415-0004-MM750	29.53"	750 mm	RG-316
415-0004-030	30"	762 mm	RG-316
415-0004-036	36"	914 mm	RG-316
415-0004-M1.0	39.4"	1000 mm	RG-316
415-0006-006	6"	152 mm	RG-316 DS
415-0006-012	12"	305 mm	RG-316 DS
415-0006018	18"	457 mm	RG-316 DS
415-0006-024	24"	610 mm	RG-316 DS
415-0006-030	30"	762 mm	RG-316 DS
415-0006-036	36"	914 mm	RG-316 DS

## SMB Mini-75 Ohm Straight Plug to SMB Mini-75 Ohm Straight Plug

Connector by Cable Type: **RG-179** (131-8403-011) **RG-179 DS** (131-8404-011)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0008-006	6"	152 mm	RG-179	415-0010-006	6"	152 mm	RG-179 DS
415-0008-012	12"	305 mm	RG-179	415-0010-012	12"	305 mm	RG-179 DS
415-0008-018	18"	457 mm	RG-179	415-0010-018	18"	457 mm	RG-179 DS
415-0008-024	24"	610 mm	RG-179	415-0010-024	24"	610 mm	RG-179 DS
415-0008-030	30"	762 mm	RG-179	415-0010-030	30"	762 mm	RG-179 DS
415-0008-036	36"	914 mm	RG-179	415-0010-036	36"	914 mm	RG-179 DS

## SMB Mini-75 Ohm Right Angle Plug to SMB Mini-75 Ohm Right Angle Plug

Connector by Cable Type: **RG-179** (131-8403-111) **RG-179 DS** (131-8404-111) **Belden 735A** (131-8445-101)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0009-006	6"	152 mm	RG-179	415-0011-024	24"	610 mm	RG-179 DS
415-0009-012	12"	305 mm	RG-179	415-0011-030	30"	762 mm	RG-179 DS
415-0009-018	18"	457 mm	RG-179	415-0011-036	36"	914 mm	RG-179 DS
415-0009-024	24"	610 mm	RG-179	415-0013-006	6"	152 mm	Belden 735A
415-0009-030	30"	762 mm	RG-179	415-0013-012	12"	305 mm	Belden 735A
415-0009-036	36"	914 mm	RG-179	415-0013-018	18"	457 mm	Belden 735A
415-0011-006	6"	152 mm	RG-179 DS	415-0013-024	24"	610 mm	Belden 735A
415-0011-012	12"	305 mm	RG-179 DS	415-0013-030	30"	762 mm	Belden 735A
415-0011-018	18"	457 mm	RG-179 DS	415-0013-036	36"	914 mm	Belden 735A

## N Straight Plug to N Straight Plug

Connector by Cable Type: **RG-58** (CPN-1) **RG-142** (CPN-142T) **RG-8** (CPN-8) **RG-213** (CPN-8)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0058-012	12"	305 mm	RG-58	415-0062-012	12"	305 mm	RG-8
415-0058-024	24"	610 mm	RG-58	415-0062-024	24"	610 mm	RG-8
415-0058-036	36"	914 mm	RG-58	415-0062-036	36"	914 mm	RG-8
415-0058-048	48"	1219 mm	RG-58	415-0062-048	48"	1219 mm	RG-8
415-0058-060	60"	1524 mm	RG-58	415-0062-060	60"	1524 mm	RG-8
415-0060-012	12"	305 mm	RG-142	415-0063-012	12"	305 mm	RG-213
415-0060-024	24"	610 mm	RG-142	415-0063-024	24"	610 mm	RG-213
415-0060-036	36"	914 mm	RG-142	415-0063-036	36"	914 mm	RG-213
415-0060-048	48"	1219 mm	RG-142	415-0063-048	48"	1219 mm	RG-213
415-0060-060	60"	1524 mm	RG-142	415-0063-060	60"	1524 mm	RG-213

## BNC Straight Plug to BNC Straight Plug with Boot

Connector by Cable Type: **RG-58** (CPMC-88-1) **RG-58 PLENUM** (CPMC-88-10) **RG-59** (CPMC-88-2) **Belden 8218** (CPMC-88-18)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0054-MM250	9.84"	250 mm	RG-58	415-0055-048	48"	1219 mm	RG-59 PLENUM
415-0054-012	12"	305 mm	RG-58	415-0055-060	60"	1524 mm	RG-59 PLENUM
415-0054-MM500	19.7"	500 mm	RG-58	415-0057-012	12"	305 mm	RG-59
415-0054-024	24"	610 mm	RG-58	415-0057-024	24"	610 mm	RG-59
415-0054-MM750	29.53"	750 mm	RG-58	415-0057-036	36"	914 mm	RG-59
415-0054-036	36"	914 mm	RG-58	415-0057-048	48"	1219 mm	RG-59
415-0054-M1.0	39.4"	1000 mm	RG-58	415-0057-060	60"	1524 mm	RG-59
415-0054-048	48"	1219 mm	RG-58	<b>With Heatshrink</b>			
415-0054-M1.5	59.1"	1500 mm	RG-58	415-0056-012	12"	305 mm	Belden 8218
415-0054-060	60"	1524 mm	RG-58	415-0056-024	24"	610 mm	Belden 8218
415-0055-012	12"	305 mm	RG-59 PLENUM	415-0056-036	36"	914 mm	Belden 8218
415-0055-024	24"	610 mm	RG-59 PLENUM	415-0056-048	48"	1219 mm	Belden 8218
415-0055-036	36"	914 mm	RG-59 PLENUM	415-0056-060	60"	1524 mm	Belden 8218

## 75 Ohm BNC Straight Plug to 75 Ohm BNC Straight Plug with Boot or Heatshrink

Connector by Cable Type: **RG-59** (CPMC-68-2) **Belden 734A** (CPMC-68-35) **Belden 8218** (CPMC-68-18) **Belden 8281** (CPMC-68-3)  
**Commscope 735** (CPMC-68-33) **Belden 735A** (CPMC-68-33) **Belden 1694A** (CPMC-68-45)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type	Part Number	Standard Cable Length	Metric Cable Length	Cable Type
<b>with Boot</b>				<b>with Heatshrink</b>			
415-0048-012	12"	305 mm	RG-59	415-0047-012	12"	305 mm	Belden 8218
415-0048-024	24"	610 mm	RG-59	415-0047-024	24"	610 mm	Belden 8218
415-0048-036	36"	914 mm	RG-59	415-0047-036	36"	914 mm	Belden 8218
415-0048-048	48"	1219 mm	RG-59	415-0047-048	48"	1219 mm	Belden 8218
415-0048-060	60"	1524 mm	RG-59	415-0047-060	60"	1524 mm	Belden 8218
415-0052-012	12"	305 mm	Belden 734A	415-0049-012	12"	305 mm	Belden 8281
415-0052-024	24"	610 mm	Belden 734A	415-0049-024	24"	610 mm	Belden 8281
415-0052-036	36"	914 mm	Belden 734A	415-0049-036	36"	914 mm	Belden 8281
415-0052-048	48"	1219 mm	Belden 734A	415-0049-048	48"	1219 mm	Belden 8281
415-0052-060	60"	1524 mm	Belden 734A	415-0049-060	60"	1524 mm	Belden 8281
				415-0050-012	12"	305 mm	Commscope 735
				415-0050-024	24"	610 mm	Commscope 735
				415-0050-036	36"	914 mm	Commscope 735
				415-0050-048	48"	1219 mm	Commscope 735
				415-0050-060	60"	1524 mm	Commscope 735
				415-0051-012	12"	305 mm	Belden 735A
				415-0051-024	24"	610 mm	Belden 735A
				415-0051-036	36"	914 mm	Belden 735A
				415-0051-048	48"	1219 mm	Belden 735A
				415-0051-060	60"	1524 mm	Belden 735A
				415-0053-012	12"	305 mm	Belden 1694A
				415-0053-024	24"	610 mm	Belden 1694A
				415-0053-036	36"	914 mm	Belden 1694A
				415-0053-048	48"	1219 mm	Belden 1694A
				415-0053-060	60"	1524 mm	Belden 1694A

## SMA Straight Plug to BNC Straight Plug

Connector by Cable Type: **RG-316** (142-0403-011, CPM-88-19) **RG-58** (142-0407-011, CPMC-88-1) **RG-142** (142-0408-011, CPMC-88-13)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0028-MM150	5.9"	150 mm	RG-316
415-0028-006	6"	152 mm	RG-316
415-0028-MM250	9.84"	250 mm	RG-316
415-0028-012	12"	305 mm	RG-316
415-0028-018	18"	457 mm	RG-316
415-0028-MM500	19.7"	500 mm	RG-316
415-0028-024	24"	610 mm	RG-316
415-0028-MM750	29.53"	750 mm	RG-316
415-0028-036	36"	914 mm	RG-316
415-0028-M1.0	39.4"	1000 mm	RG-316
415-0028-048	48"	1219 mm	RG-316
415-0028-M1.5	59.1"	1500 mm	RG-316
415-0028-M2.0	78.7"	2000 mm	RG-316
415-0037-MM250	9.84"	250 mm	RG-58

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0037-012	12"	305 mm	RG-58
415-0037-MM500	19.7"	500 mm	RG-58
415-0037-024	24"	610 mm	RG-58
415-0037-MM750	29.53"	750 mm	RG-58
415-0037-036	36"	914 mm	RG-58
415-0037-M1.0	39.4"	1000 mm	RG-58
415-0037-048	48"	1219 mm	RG-58
415-0037-M1.5	59.1"	1500 mm	RG-58
415-0037-060	60"	1524 mm	RG-58
415-0037-M2.0	78.7"	2000 mm	RG-58
415-0042-012	12"	305 mm	RG-142
415-0042-024	24"	610 mm	RG-142
415-0042-036	36"	914 mm	RG-142
415-0042-048	48"	1219 mm	RG-142
415-0042-060	60"	1524 mm	RG-142

## SMA Straight Plug to N Straight Plug

Connector by Cable Type: **RG-58** (142-0407-011, CPN-1) **RG-142** (142-0408-011, CPN-142T)

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0059-MM250	9.84"	250 mm	RG-58
415-0059-012	12"	305 mm	RG-58
415-0059-MM500	19.7"	500 mm	RG-58
415-0059-024	24"	610 mm	RG-58
415-0059-MM750	29.53"	750 mm	RG-58
415-0059-036	36"	914 mm	RG-58
415-0059-M1.0	39.4"	1000 mm	RG-58

Part Number	Standard Cable Length	Metric Cable Length	Cable Type
415-0059-048	48"	1219 mm	RG-58
415-0059-M1.5	59.1"	1500 mm	RG-58
415-0061-060	60"	1524 mm	RG-58
415-0061-012	12"	305 mm	RG-142
415-0061-024	24"	610 mm	RG-142
415-0061-036	36"	914 mm	RG-142
415-0061-048	48"	1219 mm	RG-142
415-0061-060	60"	1524 mm	RG-142