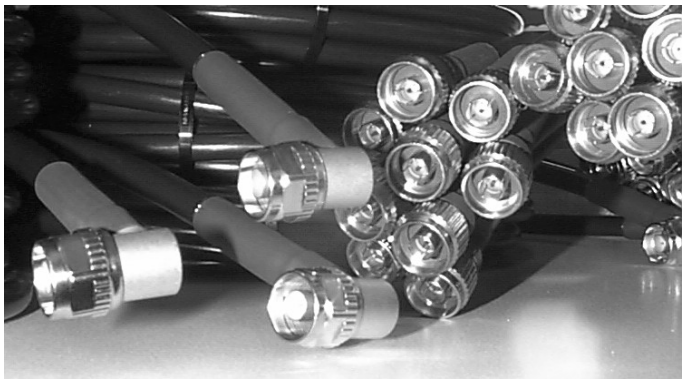


ROJONE

Cable Assembly Catalogue

June 2010 (Rev 2010-3)

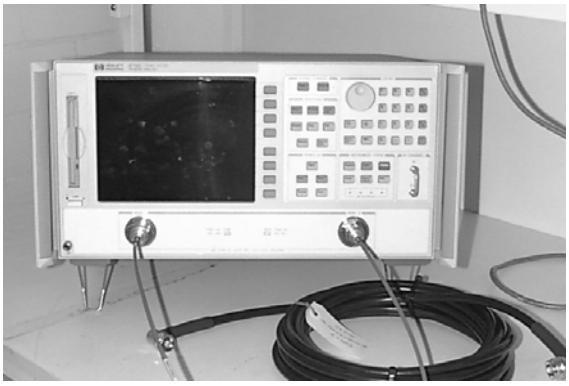
About Rojone's Cable Assembly Facility

Rojone is a well-equipped, professional and progressive Australian owned & operated company. Established in 1981, today we occupy our own 1800 square metre office, store and production facility at Ingleburn, south of Sydney.

Our Production is equipped with dedicated test instruments, Vector Network & Spectrum Analysers (HP8720D, HP8753B, 8495E), a Thermoline Thermal Chamber for temperature cycling cables, auxiliary items such as precision 3 Schleuniger 207 and their latest CS5400 cable stripping machine, inspection microscopes, pin depth gauges, intermodulation equipment, and automated test software.

Our strength is in our commitment to service. We provide quality products through unique arrangements with leading component manufacturers and through the dedication of our manufacturing team and technical staff who take pride in a job well done.

Rojone Pty. Limited maintains a Quality System compliant to the ISO9001 Standard
Rojone is third party Accredited by the Military and a number of military subcontractors and major OEM customers.



Contact Rojone for further information or assistance:

Rojone Pty. Limited

44 Aero Road, Ingleburn NSW 2565
Sydney Australia

TEL (02) 9829 1555 (+612) 9829 1555
FAX (02) 9605 8812 (+612) 9605 8812

EMAIL sales@rojone.com.au
WEB www.rojone.com.au

Melbourne – Bob Tonissen 0430 041 363
Email bob@rojone.com.au

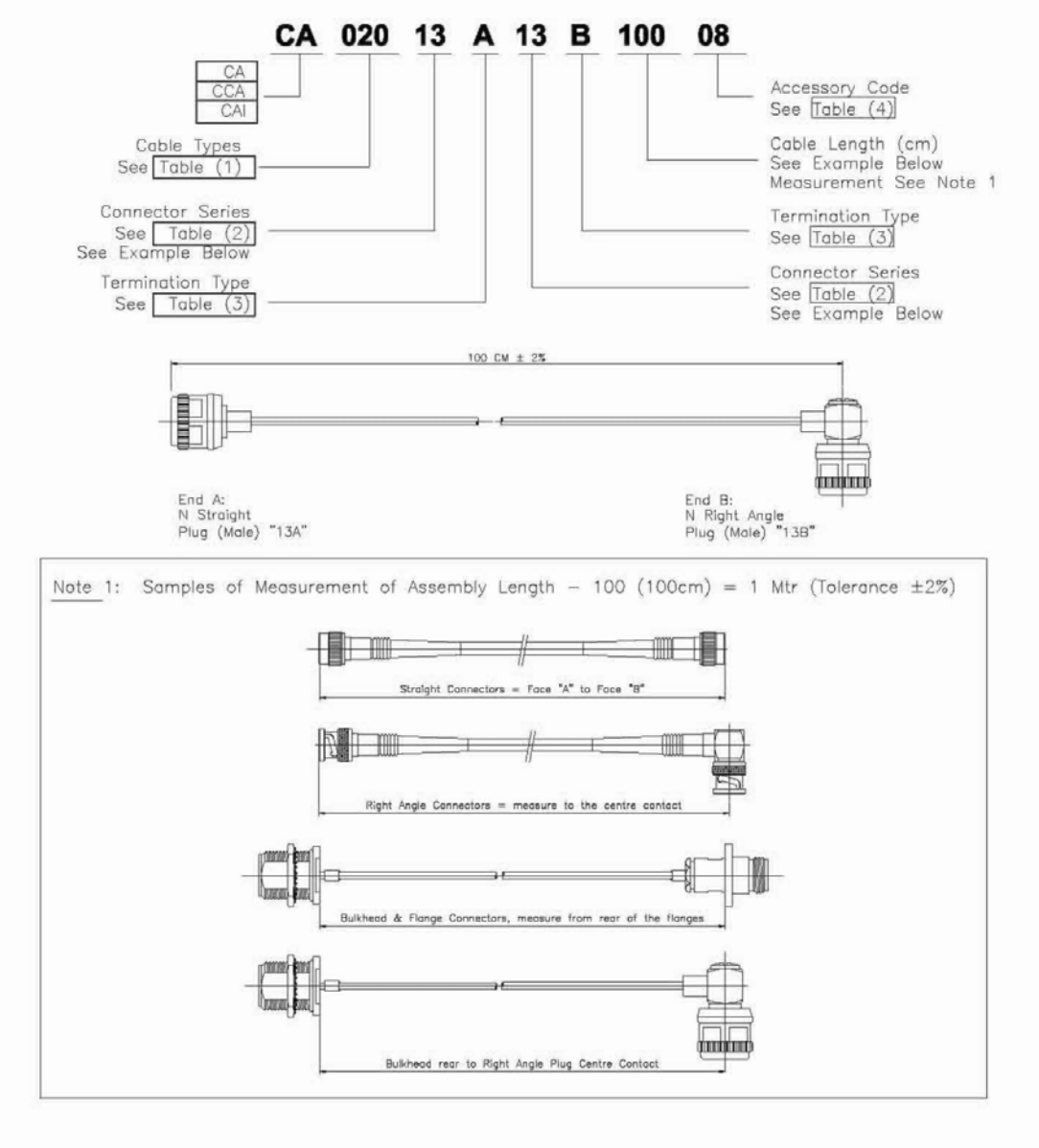
Adelaide – Micheal Janoska 08 8340 4401
Email michael@rojone.com.au

Perth – Warren Boucaut 0407 426 233
EMAIL warren@rojone.com.au

Do you know we also design and manufacture custom antennas?

Ask any of our sales consultants for more details.

Part Number Construction



CA – Professional Cable Assembly
CAI – Cable Assembly: Low Intermodulation (IM) tested
CCA – Commercial grade cable assembly

* Low Intermodulation Testing for cables.

Rojone is able to test and qualify assemblies in house for low intermodulation operation. Low IM cable assemblies are identified with a part number prefix of CAI-
Intermodulation testing is carried out using our Sumitek two tone test apparatus 2 x 43dBm tones at 900Mhz.
Customer needs to select the IM level required as a -140, -150 or -160 dBc from our Accessory Code (Table 4) to add to the part number as the suffix.

Please select cables and connectors suitable for Low IM applications.
Cable options – TCOM-400, RG142, RG400, RG223, RG316NS, TZC-500-25 and the Heliax cable range.
Connector options Low IM N types (connector code 15) or DIN-7/16 (connector code 30)

Please note that for -150dBc requirements we highly recommend only using DIN 7/16 low IM connectors

Cable Types Selection (Table 1)

ROJONE
www.rojone.com.au

Mil Spec Coaxial Cables

Code No	Cable Type	Impedance	Shield	Max O/D	Dielectric	100MHz	400MHz	1GHz	3GHz	5GHz	10GHz	18GHz
888	Special Cable											
999	Customer supplied Cable/Antenna for re-terminating											
000	Customer supplied Cable											
001	RG6	75 Ohms	SPC	0.332"	PE	2.7	5.6	9.4	17.8	--	--	--
002	RG11	75 Ohms	BC	0.405"	PE	2.2	4.6	7.7	--	--	--	--
003	RG12	75 Ohms	BC	0.475"	PE	2.2	4.6	7.7	--	--	--	--
004	RG58CU	50 Ohms	TC	0.195"	PE	4.6	9.4	15.3	28.1	--	--	--
005	RG59	75 Ohms	BC	0.242"	PE	3.3	6.9	11.4	--	--	--	--
006	RG59SC	75 Ohms	SBC	0.242"	PE	3.4	7.0	12.0	26.5	42.0	--	--
007	RG62	93 Ohms	BC	0.242"	ASPE	2.8	5.8	9.5	--	--	--	--
008	RG108	78 Ohms	TC	0.235"	PTFE	3.4	7.0	11.5	--	--	--	--
009	RG141A	50 Ohms	SPC	0.190"	PTFE	8.9	8.5	13.8	27.0	39.0	70.0	--
010	RG142B	50 Ohms	2SPC	0.195"	PTFE	3.8	7.8	12.8	23.7	32.0		
011	SF142B	50 Ohms	2SPC*	0.195"	PTFE	3.6	7.4	12.2	22.6	30.6	46.8	68.3
012	RG174A	50 Ohms	TC	0.100"	PE	8.4	17.0	27.4	--	--	--	--
013	RG178B	50 Ohms	SPC	0.072"	PTFE	13.8	27.8	44.4	78.4	--	--	--
014	RG179B	75 Ohms	SPC	0.100"	PTFE	8.1	16.5	26.5	--	--	--	--
015	RG188	50 Ohms	SPC	0.105"	PTFE	8.0	16.2	26.1	46.7	--	--	--
016	RG196	50 Ohms	SPC	0.072"	PTFE	13.8	27.8	44.4	78.4	--	--	--
017	RG180B	95 Ohms	SPC	0.141"	PTFE	6.3	12.8	20.6	--	--	--	--
018	RG213	50 Ohms	BC	0.405"	PE	2.0	4.3	7.3	--	--	--	--
019	RG213ALL	50 Ohms	BC	0.405"	ASPE	1.4	--	--	--	--	--	--
020	RG214	50 Ohms	2SPC	0.425"	PE	2.0	4.3	7.3	14.2	19.7	--	--
021	RG223	50 Ohms	2SPC	0.216"	PE	4.0	8.2	13.4	24.8	33.5	--	--
022	RG303	50 Ohms	SPC	0.170"	PTFE	3.8	7.8	12.8	23.8	--	--	--
023	RG316	50 Ohms	SPC	0.102"	PTFE	8.0	16.2	26.1	46.7	--	--	--
023N	RG316NS	50 Ohms	SPC	0.102"	PTFE	8.0	16.2	26.0	46.7	--	--	--
024	RG400	50 Ohms	2SPC	0.195"	PTFE	4.4	9.0	14.7	26.9	36.1	--	--
025	M17/129-RG401	50 Ohms	BCT	0.250"	PTFE	1.9	4.0	6.8	13.3	18.6	--	--
026	M17/129-00001	50 Ohms	TC	0.250"	PTFE	1.9	4.0	6.8	13.3	18.6	--	--
027	M17/130-RG402	50 Ohms	BCT	0.141"	PTFE	3.3	6.8	11.2	20.9	28.3	--	--
028	M17/130-00001	50 Ohms	TC	0.141"	PTFE	3.3	6.8	11.2	20.9	28.3	--	--
029	M17/133-RG405	50 Ohms	BCT	0.085"	PTFE	5.8	11.9	19.2	34.8	46.2	--	--
030	M17/133-00001	50 Ohms	TC	0.085"	PTFE	3.3	11.9	19.2	34.8	46.2	--	--
031	AA7740 T-FLEX	50 Ohms	SPC&F*	0.160"	PTFE	--	--	9.0	--	30.0	45.0	70.0
032	AA7741 T-FLEX	50 Ohms	SPC&F*	0.100"	PTFE	--	--	16.0	--	51.5	76.0	112.0
033	085 Conformable	50 Ohms	SPC&F*	0.086"	PTFE	8.0	18.0	29.0	52.0	70.0	101.0	150.0
034	141 Conformable	50 Ohms	SPC&F*	0.141"	PTFE	4.50	9.0	16.0	29.0	40.0	59.0	80.0
035	AA7880 T-FLEX	50 Ohms	SPC&F*	0.100"	PTFE	5.0	--	23.0	--	56.0	80.0	118.0
036F	FSJ1-50/SCF14-50J	50 Ohms	Cor Cop	0.250"	PEF	1.9	3.9	6.5	12.4	17.0	26.9	--
036L	LDF1-50	50 Ohms	Cor Cop	0.345"	PEF	1.2	2.5	--	7.7	10.3	15.7	--
037F	FSJ4-50B/SCF12-50	50 Ohms	Cor Cop	0.500"	PEF	1.0	2.2	3.6	6.7	9.1	15.0	--
037L	LDF4-50/LCF12-50J	50 Ohms	Cor Cop	0.630"	PEF	0.7	1.4	2.2	4.1	5.5	--	--
038	M17-152-00001	50 Ohms	2SPC	0.114"	PTFE	8.0	16.2	26.1	46.7	61.6	--	--
039	TZC-500-25	50 Ohms	SPC&F	0.2244"	PE	2.7	5.0	7.1	14.0	--	--	--
090	M17/184-00001	75 Ohms	BC	0.242"	PE	3.3	7.0	11.4	--	--	--	--
091	SPEEDFLEX-400	50 Ohms	2SPC	0.195"	REF	5.4	10.8	16.5	--	--	--	--
092	M17/130-00005	50 Ohms	T	0.141"	PTFE	3.3	6.8	11.2	20.9	28.3	--	--
093	0.250 Conformable	50 Ohms	SPC&F*	0.25	--	--	--	--	--	--	--	--
093	0.250 Conformable	50 Ohms	SPC&F*	0.25	--	--	--	--	--	--	--	--
094	0.141 Jacketed Conformable	50 Ohms	SPC&F*	0.141"	PTFE	4.50	9.0	16.0	29.0	40.0	59.0	80.0

■ Recommended Low IM Cable

Mil Spec Twinax Cables

TROMPETER/MIL SPEC TWINAX CABLES						Attenuation dB/100 FT @ Degrees C						
Code No	Cable	Impedance	Shield	Max O/D	Dielectric	30MHz	50MHz	100MHz	200MHz	500MHz	700MHz	1GHz
061	TWC-124-1A	124 Ohms	TC	0.150"	PTFE	1.2	13.2	18.7	26.4	41.7	49.4	59.0
062	TWC-124-2	124 Ohms	TC	0.245"	PTFE	2.8	3.6	5.1	7.2	11.4	49.4	59.0

ROJONE
www.rojone.com.au

Cable Types Specifications (Table 1)

LMR Series – Low Loss Times Cables

042	TCOM400	50 Ohms	SPC&F	0.405"	PEF	0.7	0.9	1.5	2.7	5.1	6.0
047	LMR100	50 Ohms	TCAL	0.110"	PEF	3.9	5.1	9.0	15.8	30.1	35.2
048	LMR300	50 Ohms	TCAL	0.300"	PEF	1.1	1.4	2.4	4.2	8.0	9.2
049	LMR195	50 Ohms	TCAL	0.195"	PEF	2.0	2.5	4.4	7.8	14.5	16.9
050	LMR200	50 Ohms	TCAL	0.200	PEF	1.8	2.3	4.0	7.0	13.0	15.0
051	LMR240	50 Ohms	TCAL	0.240"	PEF	1.3	1.7	3.0	5.3	9.9	11.5
052	LMR400	50 Ohms	TCAL	0.405"	PEF	0.6	0.9	1.5	2.7	5.1	6.0
053	LMR500	50 Ohms	TCAL	0.500"	PEF	0.5	0.7	1.2	2.2	4.1	4.9
054	LMR600	50 Ohms	TCAL	0.590"	PEF	0.4	0.5	1.0	1.7	3.3	3.9
055	LMR900	50 Ohms	TCAL	0.870"	PEF	0.3	0.4	0.7	1.2	2.2	2.6
056	LMR1200	50 Ohms	TCAL	1.200"	PEF	0.2	0.3	0.5	0.9	1.7	2.0
057	LMR1700	50 Ohms	TCAL	1.670"	PEF	0.1	0.2	0.3	0.6	1.3	1.5
058	LMR240-ULTRA	50 Ohms	TCAL	0.240"	PEF	1.6	2.0	3.6	6.3	11.9	13.8
059	LMR400-ULTRA	50 Ohms	TCAL	0.405"	PEF	0.8	1.0	1.8	3.2	6.1	7.2
060	LMR600-ULTRA	50 Ohms	TCAL	0.590"	PEF	0.5	0.7	1.1	2.1	4.0	4.6
066	LMR195-ULTRA	50 Ohms	TCAL	0.195"	PEF	2.3	3.0	5.3	9.3	17.3	20.1
068	LMR240-DB										
069	LMR195-LLSB	50 Ohms	TCAL	0.195"	PEF	2.2	2.9	4.9	8.6	16.0	19.4
070	LMR400-DB	50 Ohms	TCAL	0.405"	PEF	0.7	0.9	1.5	2.7	5.1	5.6
071	LMR500-DB	50 Ohms	TCAL	0.500"	PEF	0.5	0.7	1.2	2.2	4.1	4.8
072	LMR600-DB	50 Ohms	TCAL	0.590"	PEF	0.4	0.5	1.0	1.7	3.3	3.9
073	LMR900-DB	50 Ohms	TCAL	0.870"	PEF	0.3	0.4	0.6	1.2	2.2	2.6
074	LMR1200-DB	50 Ohms	TCAL	1.200"	PEF	0.2	0.3	0.5	0.8	1.7	2.0
075	LMR1700-DB	50 Ohms	TCAL	1.670"	PEF	0.1	0.2	0.3	0.6	1.3	1.5
076	LMR200-LLSB	50 Ohms	TCAL	0.195"	PEF	2.1	2.6	4.6	8.0	14.8	17.2
077	LMR240-LLSB	50 Ohms	TCAL	0.240"	PEF	1.5	2.0	3.4	6.1	11.3	13.3
078	LMR400-LLSB	50 Ohms	TCAL	0.405"	PEF	0.8	1.0	1.7	3.1	5.8	6.9
079	LMR500-LLSB	50 Ohms	TCAL	0.500"	PEF	0.6	0.8	1.4	2.5	4.7	5.5
080	LMR600-LLSB	50 Ohms	TCAL	0.590"	PEF	0.5	0.6	1.1	2.0	3.8	4.5
081	LMR900-LLSB	50 Ohms	TCAL	0.870"	PEF	0.3	0.4	0.7	1.3	2.4	2.8
082	LMR1200-LLSB	50 Ohms	TCAL	1.200"	PEF	0.2	0.3	0.5	1.0	1.9	2.2
083	LMR1700-LLSB	50 Ohms	TCAL	1.670"	PEF	0.2	0.2	0.4	0.7	1.5	1.7
086	LMR240-75	75 Ohms	TCAL	0.240"	PEF	1.3	1.6	2.9	5.0	9.4	10.9
087	LMR400-75	75 Ohms	TCAL	0.405"	PEF	0.6	0.8	1.5	2.6	4.9	5.7
088	LMR600-75	75 Ohms	TCAL	0.590"	PEF	0.4	0.5	0.9	1.6	3.1	3.7
347	LMR100A-FR	50 Ohms	TCAL	0.110"	PEF	3.9	5.1	9.0	15.8	30.1	35.2
349	LMR195-FR	50 Ohms	TCAL	0.195"	PEF	2.0	2.5	4.4	7.8	14.5	16.9
350	LMR200-FR	50 Ohms	TCAL	0.200	PEF	1.8	2.3	4.0	7.0	13.0	15.0
351	LMR240-FR	50 Ohms	TCAL	0.240"	PEF	1.3	1.7	3.0	5.3	9.9	11.5
352	LMR400-FR	50 Ohms	TCAL	0.405"	PEF	0.6	0.9	1.5	2.7	5.1	6.0
353	LMR500-FR	50 Ohms	TCAL	0.500"	PEF	0.5	0.7	1.2	2.2	4.1	4.9
354	LMR600-FR	50 Ohms	TCAL	0.590"	PEF	0.4	0.5	1.0	1.7	3.3	3.9
355	LMR-900-FR	50 Ohms	TCAL	0.870"	PEF	0.3	0.4	0.7	1.2	2.2	2.6
356	LMR1200-FR	50 Ohms	TCAL	1.200"	PEF	0.2	0.3	0.5	0.9	1.7	2.0
357	LMR1700-FR	50 Ohms	TCAL	1.670"	PEF	0.1	0.2	0.3	0.6	1.3	1.5
359	LMR400-ULTRA-FR	50 Ohms	TCAL	0.405"	PEF	0.8	1.0	1.8	3.2	6.1	7.2
370	LMR-400-75-DB										
371	LMR-500-75-DB										
372	LMR600-75-DB	75 Ohms	TCAL	0.590"	PEF	0.4	0.5	0.9	1.6	3.1	3.7
373	LMR900-75-db										
374	LMR-1200-75-DB										
375	LMR-1700-75-DB										
387	LMR400-75-FR	75 Ohms	TCAL	0.405"	PEF	0.6	0.8	1.5	2.6	4.9	5.7

Recommended Low IM Cable

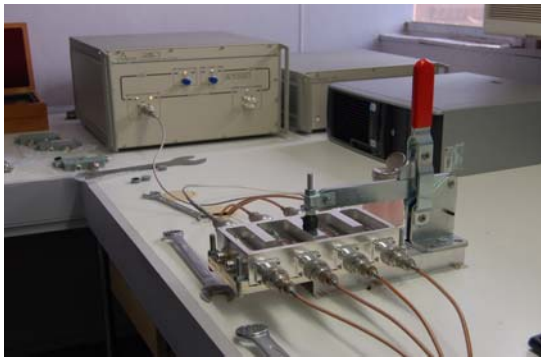
Cable Types Specified (Table 1) – continued

Corrugated Copper Foam/Air Dielectric Cables

						Attenuation dB / 100 FT @ 25 Degrees C						
Code No	Cable Type	Impedance	Feature	Size	Dielectric	88 MHz	150 MHz	450 MHz	850 MHz	960 MHz	1880 MHz	2170 MHz
110	SCF14-50J	50 Ohms	Superflexible	1/4"	Foam	5.51	7.24	12.85	18.04	19.27	27.83	30.14
111	SCF14-50JFN	50 Ohms	Superflexible	1/4"	Foam	5.51	7.24	12.85	18.04	19.27	27.83	30.14
120	SCF38-50J	50 Ohms	Superflexible	3/8"	Foam	3.99	5.25	9.31	13.05	13.93	20.09	21.75
121	SCF35-50JFN	50 Ohms	Superflexible	3/8"	Foam	3.99	5.25	9.31	13.05	13.93	20.09	21.75
140	SCF12-50J	50 Ohms	Superflexible	1/2"	Foam	3.14	4.14	7.37	10.36	11.06	16.02	17.37
141	SCF12-50JFN	50 Ohms	Superflexible	1/2"	Foam	3.14	4.14	7.37	10.36	11.06	16.02	17.37
150	UCF78-50J	50 Ohms	Ultraflexbile	7/8"	Foam	1.24	1.63	2.91	4.11	4.39	6.38	6.92
151	UCF78-50JFN	50 Ohms	Ultraflexbile	7/8"	Foam	1.24	1.63	2.91	4.11	4.39	6.38	6.92
240	LCF12-50J	50 Ohms	Low Loss	1/2"	Foam	2.04	2.68	4.67	6.66	7.11	10.25	11.10
241	LCF12-50JFN	50 Ohms	Low Loss	1/2"	Foam	2.04	2.68	4.67	6.66	7.11	10.25	11.10
250	LCF78-50J	50 Ohms	Low Loss	7/8"	Foam	1.12	1.48	2.67	3.78	4.05	5.93	6.45
251	LCF78-50JFN	50 Ohms	Low Loss	7/8"	Foam	1.12	1.48	2.67	3.78	4.05	5.93	6.45
260	LCFS114-50J	50 Ohms	Low Loss	1 1/4"	Foam	0.79	1.04	1.89	2.99	2.90	4.30	4.69
261	LCFS114-50JFN	50 Ohms	Low Loss	1 1/4"	Foam	0.79	1.04	1.89	2.99	2.90	4.30	4.69

Leaky Feeder Cable

For RF coverage in mines, buildings and other enclosed areas					Attenuation dB / 100 FT @ 25 Degrees C				
Code No	Cable Type	Impedance	Feature	O/D	150 Mhz	450 Mhz	900 MHz	1900 MHz	2400 MHz
420	T-RAD-400-PVC	50 Ohms	Standard	0.405" (10.29mm)	1.95	3.35	4.70	7.35	8.25
421	T-RAD-400-FR	50 Ohms	Fire Retardant	0.405" (10.29mm)	1.95	3.35	4.70	7.35	8.25
422	T-RAD-400-LLPL	50 Ohms	Orange Fire Retardant PVC	0.405" (10.29mm)	1.90	3.20	4.55	6.85	7.65
423	T-RAD-600-PVC	50 Ohms	Standard	0.59" (14.98mm)	1.34	2.22	3.35	5.30	6.40
424	T-RAD-600-FR	50 Ohms	Fire Retardant	0.59" (14.98mm)	1.34	2.22	3.35	5.30	6.40
425	T-RAD-600-DB	50 Ohms	Waterblocked	0.59" (14.98mm)	1.34	2.22	3.35	5.30	6.40
426	T-RAD-600-LLPL	50 Ohms	Orange Fire Retardant PVC	0.59" (14.98mm)	1.34	2.22	3.35	5.30	
					30 MHz	85 MHz	150 Mhz	160 Mhz	
430	CC-3529	75 Ohms	Radiating	0.42" (10.8mm)	1.80	3.10	4.30	4.30	
440	RLKU12-50	50 Ohms	Radiating	0.58 (14.7mm)	Foam				
442	RLKU12-50FL	50 Ohms	Radiating	0.58 (14.7mm)	Foam				
450	RLKU78-50	50 Ohms	Radiating	1.12" (28.5mm)	Foam				
452	RLKU78-50FL	50 Ohms	Radiating	1.12" (28.5mm)	Foam				
460	RLKU114-50	50 Ohms	Radiating	1.5" (38.1mm)	Foam				
462	RLKU114-50-FL	50 Ohms	Radiating	1.5" (38.1mm)	Foam				



In house Low Intermodulation (Low IM) Test Set

Connector Selection (Table 2) – alphabetical order

ROJONE
www.rojone.com.au

Code	Connector Type / Series	Frequency	Impedance	Mil Spec or Ref
01	BMA	DC-22 GHz	50 Ohms	
43	BMA COMMERCIAL	DC-22 GHz	50 Ohms	
03	BNC COMMERCIAL	DC-1.5 GHz	50/75 Ohms	MIL-C-39012
04	BNC HT (Hight Voltage)	DC-2 GHz	50 Ohms	MIL-C-39012
02	BNC PROFESSIONAL	DC-4 GHz	50/75 Ohms	MIL-C-39012
44	BNC SHV (High Voltage)	DC-300 MHz	50 Ohms	MIL-C-39012
05	BR2 (Twinax)	DC-500 MHz	120 Ohms	
06	C	DC-11 GHz	50 Ohms	MIL-C-39012
40	DIN 1.0/2.3	DC-10 GHz	50/75 Ohms	DIN 47297
07	DIN 1.6/5.6	DC-1 GHz	50 Ohms	DIN 47297
60	DIN 4.1/9.5	DC-14 GHz	50 Ohms	
42	DIN 41626	DC-2 GHz	50 Ohms	Intermates DIN 1.0/2.3
30	DIN 7/16	DC-7.5 GHz	50 Ohms	
52	Ericsson Snap-In Special	DC-3 GHz	50 Ohms	Custom OEM Design
33	F Connector	DC-2.5 GHz	75 Ohms	
61	FAKRA	DC-4-6	50 Ohms	
34	FME	DC-1.8 GHz	50 Ohms	
08	HN	DC-3 GHz	50 Ohms	MIL-C-39012
09	HN 2	DC-500 MHz	100 Ohms	MIL-C-39012
39	K Type SMA Connector	DC-46 GHz	50 Ohms	MIL-C-39012
50	Lemo Connector		Various	
53	Lucent WLAN MC-CARD	DC-3 GHz	50 Ohms	Custom OEM Design
47	MC-CARD	DC-8 GHz	50 Ohms	
10	MCX	DC-6 GHz	50 Ohms	
32	MCX 75	DC-6 GHz	75 Ohms	
31	MMCX	DC-6 GHz	50 Ohms	
11	MQ	DC-4 GHz	50 Ohms	
12	MQ HT	DC-2 GHz	50 Ohms	
37	N 75	DC-1.5 GHz	75 Ohms	MIL-C-39012
13	N MIL VERSION	DC-11 GHz	50 Ohms	MIL-C-39012
14	N COMMERCIAL	DC-11 GHz	50 Ohms	MIL-C-39012
15	N LOW INTERMOD	DC-11 GHz	50 Ohms	MIL-C-39012
36	N PROFESSIONAL 18 GHz	DC-18 GHz	50 Ohms	MIL-C-39012
16	NIM-QLA	DC-1.4 GHz	50 Ohms	
64	Q	DC-0.03 GHz	120 Ohms	B4R062631AB issue X3
46	QMA	DC-6 GHz	50 Ohms	
62	QN	DC-6-opt 11 GHZ	50 Ohms	
48	R-MCX	DC-6 GHz	50 Ohms	
17	SMA	DC-18 GHz	50 Ohms	MIL-C-39012
38	SMA 26 GHz	DC-26 GHz	50 Ohms	MIL-C-39012
39	SMA 46 GHz (K 2.9 Series)	DC-46 GHz	50 Ohms	MIL-C-39012
18	SMA COMMERCIAL	DC-12.4 GHz	50 Ohms	
63	SMA-3.5	DC-26.5 GHz	50 Ohms	
19	SMB	DC-4 GHz	50 Ohms	
19C	SMB CARLOCK	DC-4 GHz	50 Ohms	
19L	SMB LOCK	DC-4 GHz	50 Ohms	
20	SMC	DC-10 GHz	50 Ohms	
21	SMC 75	DC-4 GHz	75 Ohms	
22	SMZ	DC-3 GHz	75 Ohms	
27	SPECIAL			
23	SSMA	DC-18 GHz	50 Ohms	
58	SSMB	DC-4 GHz	50 Ohms	
57	SSMC	DC-4 GHz	50 Ohms	
24	TNC	DC-11 GHz	50/75 Ohms	MIL-C-39012
35	TNC 18 MILITARY	DC-18 GHz	50 Ohms	MIL-C-39012
25	TNC COMMERCIAL	DC-1.5 GHz	50/75 Ohms	
26	TRIAX	DC-10 GHz	Various	
56	TROMPETER TRIAX 3 LUG	DC-500 MHz	Various	MIL-C-49142
55	TROMPETER TWINAX 3 LUG	DC-500 MHz	Various	MIL-C-49142
29	UHF MINIATURE	DC-2.5 GHz	50 Ohms	
28	UHF STANDARD	DC-500 MHz	50 Ohms	
49	UMP	DC-6 GHz	50 Ohms	
99	UNTERMINATED - NO CONNECTION			

■ Recommended Low IM

Connector Selection (Table 2) – code number order

ROJONE
www.rojone.com.au

Code	Connector Type / Series	Frequency	Impedance	Mil Spec or Ref
01	BMA	DC-22 GHz	50 Ohms	
02	BNC PROFESSIONAL	DC-4 GHz	50/75 Ohms	MIL-C-39012
03	BNC COMMERCIAL	DC-1.5 GHz	50/75 Ohms	MIL-C-39012
04	BNC HT (Hight Voltage)	DC-2 GHz	50 Ohms	MIL-C-39012
05	BR2 (Twinax)	DC-500 MHz	120 Ohms	
06	C	DC-11 GHz	50 Ohms	MIL-C-39012
07	DIN 1.6/5.6	DC-1 GHz	50 Ohms	DIN 47297
08	HN	DC-3 GHz	50 Ohms	MIL-C-39012
09	HN 2	DC-500 MHz	100 Ohms	MIL-C-39012
10	MCX	DC-6 GHz	50 Ohms	
11	MQ	DC-4 GHz	50 Ohms	
12	MQ HT	DC-2 GHz	50 Ohms	
13	N MIL VERSION	DC-11 GHz	50 Ohms	MIL-C-39012
14	N COMMERCIAL	DC-11 GHz	50 Ohms	MIL-C-39012
15	N LOW INTERMOD	DC-11 GHz	50 Ohms	MIL-C-39012
16	NIM-QLA	DC-1.4 GHz	50 Ohms	
17	SMA	DC-18 GHz	50 Ohms	MIL-C-39012
18	SMA COMMERCIAL	DC-12.4 GHz	50 Ohms	
19	SMB	DC-4 GHz	50 Ohms	
19C	SMB CARLOCK	DC-4 GHz	50 Ohms	
19L	SMB LOCK	DC-4 GHz	50 Ohms	
20	SMC	DC-10 GHz	50 Ohms	
21	SMC 75	DC-4 GHz	75 Ohms	
22	SMZ	DC-3 GHz	75 Ohms	
23	SSMA	DC-18 GHz	50 Ohms	
24	TNC	DC-11 GHz	50/75 Ohms	MIL-C-39012
25	TNC COMMERCIAL	DC-1.5 GHz	50/75 Ohms	
26	TRIAX	DC-10 GHz	Various	
27	SPECIAL			
28	UHF STANDARD	DC-500 MHz	50 Ohms	
29	UHF MINIATURE	DC-2.5 GHz	50 Ohms	
30	DIN 7/16	DC-7.5 GHz	50 Ohms	
31	MMCX	DC-6 GHz	50 Ohms	
32	MCX 75	DC-6 GHz	75 Ohms	
33	F Connector	DC-2.5 GHz	75 Ohms	
34	FME	DC-1.8 GHz	50 Ohms	
35	TNC 18 MILITARY	DC-18 GHz	50 Ohms	MIL-C-39012
36	N PROFESSIONAL 18 GHz	DC-18 GHz	50 Ohms	MIL-C-39012
37	N 75	DC-1.5 GHz	75 Ohms	MIL-C-39012
38	SMA 26 GHz	DC-26 GHz	50 Ohms	MIL-C-39012
39	K Type SMA Connector	DC-46 GHz	50 Ohms	MIL-C-39012
39	SMA 46 GHz (K 2.9 Series)	DC-46 GHz	50 Ohms	MIL-C-39012
40	DIN 1.0/2.3	DC-10 GHz	50/75 Ohms	DIN 47297
42	DIN 41626	DC-2 GHz	50 Ohms	Intermates DIN 1.0/2.3
43	BMA COMMERCIAL	DC-22 GHz	50 Ohms	
44	BNC SHV (High Voltage)	DC-300 MHz	50 Ohms	MIL-C-39012
46	QMA	DC-6 GHz	50 Ohms	
47	MC-CARD	DC-8 GHz	50 Ohms	
48	R-MCX	DC-6 GHz	50 Ohms	
49	UMP	DC-6 GHz	50 Ohms	
50	Lemo Connector		Various	
52	Ericsson Snap-In Special	DC-3 GHz	50 Ohms	Custom OEM Design
53	Lucent WLAN MC-CARD	DC-3 GHz	50 Ohms	Custom OEM Design
55	TROMPETER TWINAX 3 LUG	DC-500 MHz	Various	MIL-C-49142
56	TROMPETER TRIAX 3 LUG	DC-500 MHz	Various	MIL-C-49142
57	SSMC	DC-4 GHz	50 Ohms	
58	SSMB	DC-4 GHz	50 Ohms	
60	DIN 4.1/9.5	DC-14 GHz	50 Ohms	
61	FAKRA	DC-4-6	50 Ohms	
62	QN	DC-6-opt 11 GHZ	50 Ohms	
63	SMA-3.5	DC-26.5 GHz	50 Ohms	
64	Q	DC-0.03 GHz	120 Ohms	B4R062631AB issue X3
99	UNTERMINATED - NO CONNECTION			

■ Recommended Low IM

TERMINATION Type Selection (Table 3)

Code	Termination Sytle & Method
A	Crimp Straight Male Plug
B	Crimp Right Angle Male Plug
C	Crimp Straight Female Jack
D	Crimp Right Angle Female Jack
E	Crimp Bulkhead Male Plug
F	Crimp Bulkhead Female Jack
G	Crimp Square Flange Jack
H	Crimp Straight Reverse Pin Plug
I	Crimp Straight Reverse Pin Receptacle
J	Crimp Bulkhead Reverse Pin Receptacle
K	Crimp Right Angle Reverse Pin Plug
L	Crimp B/Head Right Angle Rev Pin Rec
M	Solder Straight Male Plug
N	Solder Right Angle Male Plug
O	Solder Straight Female Jack
P	Solder Right Angle Female Jack
Q	Solder Bulkhead Male Plug
R	Solder Bulkhead Female Jack
S	Solder Square Flange Jack
T	Crimp Reverse Thread Plug
U	Solder RA Bulkhead Jack (SemiRigid)
X	Hermaphrodite
Y	PCB Right Angle Cable Terminal
Z	PCB Straight Cable Terminal

N Straight Plug (Male) 13A

N Straight Jack (Female) 13C

N Right Angle Plug (Male) 13B

N Square Flange Receptacle (Jack or Female) 13G

N Female Bulkhead Jack 13F

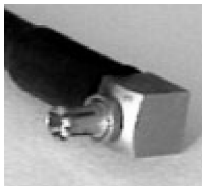
TYPICAL INTERFACE

Reverse Polarity BNC
Straight Plug
Bayonet Coupling
(Code #03H)

Reverse Polarity TNC
Straight Plug
Screw Coupling
(Code #25H)

Reverse Polarity SMA
Straight Plug
Screw Coupling
(Code #18H)

Reverse THREAD SMA
Straight Plug
Reverse Screw Thread
(Code #18T)



Lucent MC Card Connector
Right Angle Plug
Push Coupling
(Code #53B) R-229792

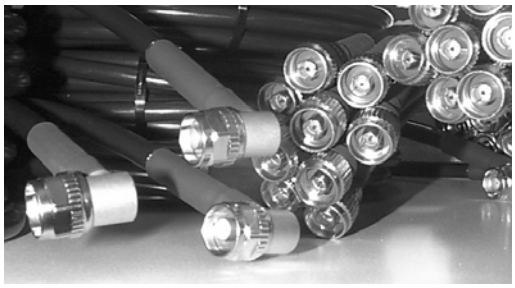
Standard SMA
(Silver or Gold)
Straight Plug
(Code #17A)

Reverse Polarity N
Straight Plug
Screw Coupling
(Code #14H)

Reverse Polarity
MMCX Straight
Push-On Plug
(Code #31H)

ACCESSORY Code (Table 4)

Code	Accessory or Special Customer Requirements
Blank	No accessories
01	With Strain Relief Boots (Sleeve) – Colour Black
02	With Strain Relief Boots (Sleeve) – Colour Red
03A	With Strain Relief Boots (Sleeve) – Colour Green
03B	With Strain Relief Boots (Sleeve) – Colour Blue
03C	With Strain Relief Boots (Sleeve) – Colour Yellow
03D	With Strain Relief Boots (Sleeve) – Colour Grey
03E	With Strain Relief Boots (Sleeve) – Colour White
03F	With Strain Relief Boots (Sleeve) – Colour Brown
03G	With Strain Relief Boots (Sleeve) – Colour Orange
03H	With Strain Relief Boots (Sleeve) – Colour Violet
03I	With Strain Relief Boots (Sleeve) – Colour Natural
04	Labeled – Customer to specify label required
05	Special Test Required – such as individual reports per cable or indicative reports per batch (e.g. Full VNA Reports, etc)
06	Phase Matched Assembly – Tolerance in degrees to be specified by Customer
07	Special Packaging Requirements
08	Glue Heatshrink for Excellent Strain relief and twist tolerance (commonly quoted as standard practice)
08H	Heavy Duty Shrink Strain relief
08R	Ruggedised Strain relief – usually used on Test Cables or where very heavy strain relief needed
09	Special Manufacturing Requirements – customer to define specific requirement (drawing preferred)
10	Hex Nut connector specified by client
11	Knurled connecter specified by client
14	Low Intermodulation (IM) Tested to 140 dBc
15	Low Intermodulation (IM) Tested to 150 dBc
16	Low Intermodulation (IM) Tested to 160 dBc
17	Bird Resistant Plastic Conduit
18	Bird Proof Steel Conduit
LF	Lead Free Solder – using 96sc lead free (96% tin and 4% copper/silver mix)



-08 Suffix
Glue Heatshrink Strain Relief

Low IM testing available for all Assemblies.

For details, please contact Rojone's Technical Sales Consultants.

Abbreviations

ALO/PO	Aluminium/Polyester	SPC & F	Silver Plated Copper Foil & Braid
BC	Bare Copper	TC	Tin Copper
BCT	Bare Copper Tube	TCAL	Tin Copper & Aluminium
CORCOP	Corrugated Copper Tube	PTFE	Solid Polytetrafluoroethylene
SBC	Stranded Bare Copper	PEF	Polyethylene Foam
SPC	Silver Plated Copper	PE	Polyethylene
SCBeCU	Silver Covered, Beryllium Copper	SPCNS	Silver Plated Copper – no steel.

Coaxial Cable – Cross Reference/Performance Comparison

	Alt Cable	Impedance	O/D	Dielectric	100 MHz	400 MHz	1GHz	3GHz	5GHz	Selection
RG58		50 Ohm	0.195"	PE	4.566	9.384	15.3	28.098	37.695	Std RG58 Conn
	LMR195	50 Ohm	0.195"	PEF	3.615	7.325	11.754	20.956	27.583	Std RG58 Conn
	LMR200	50 Ohm	0.195"	PEF	3.242	6.550	10.477	18.566	24.341	LMR Conn
RG142		50 Ohm	0.195"	PTEF	3.8	7.84	12.837	23.756	32.021	Std RG142 Conn
	LMR195	50 Ohm	0.195"	PEF	3.615	7.325	11.754	20.956	27.583	Std RG58 Conn
	LMR200	50 Ohm	0.200"	PEF	3.242	6.550	10.477	18.566	24.341	LMR Conn
RG174		50 Ohm	0.100"	PE	8.386	17.024	27.38	49.021	64.707	Std RG174 Conn
	LMR100	50 Ohm	0.105"	PE	7.265	14.878	24.164	44.061	58.843	Std RG174 Conn
	RG316	50 Ohm	0.098"	PTFE	8.000	16.200	26.100	46.700		Std RG316 Conn
RG213		50 Ohm	0.405"	PE	2.036	4.324	7.299	14.241	19.805	Std RG213U Conn
	LMR400	50 Ohm	0.405"	PEF	1.248	2.549	4.127	4.478	9.947	LMR Conn
RG214		50 Ohm	0.425"	PE	2.025	4.304	7.268	14.186	19.735	Std RG214 Conn
	LMR400	50 Ohm	0.405"	PEF	1.248	2.549	4.127	4.478	9.947	LMR Conn
RG223		50 Ohm	0.216"	PE	3.965	8.183	13.403	24.812	33.452	Std RG142/RG223 Conn
	LMR195	50 Ohm	0.195"	PEF	3.615	7.325	11.754	20.956	27.583	Std RG58 Conn
RG316		50 Ohm	0.102"	PTFE	7.99	16.219	26.087	46.705	61.649	Std RG316/174 Conn
	LMR100	50 Ohm	0.105"	PE	7.265	14.878	24.164	44.061	58.843	Std RG316/RG174 Conn
RG400		50 Ohm	0.195"	PTFE	4.38	9	14.671	26.932	36.188	Std RG400/142 Conn
	LMR195	50 Ohm	0.195"	PEF	3.615	7.325	11.754	20.956	27.583	Std RG58 Conn
	LMR200	50 Ohm	0.195"	PEF	3.242	6.550	10.477	18.566	24.341	LMR Conn
	LMR240	50 Ohm	0.240"	PEF	2.453	4.973	7.985	14.249	18.767	LMR Conn
RG59		75 Ohm	0.242"	PE	3.326	6.904	11.379	21.307	28.927	Standard RG59/RG62
	LMR240-75	75 Ohm	0.242"	PEF	3.04	6.146	9.839	17.461	22.914	LMR Connector
RG6		75 Ohm	0.332"	PE	2.686	5.624	9.355	17.801	24.401	Std RG6 Connector
	LMR240-75	75 Ohm	0.242"	PEF	3.04	6.146	9.839	17.461	22.914	LMR Connector
	RG6 CATV*	75 Ohm	0.332"	PE		4.000	6.500			CATV Style
RG11		75 Ohm	0.405"	PE	2.200	4.600	7.700			Std RG11 Connector
	RG11 CATV*	75 Ohm	0.407"	PE	1.190	2.500	4.120			CATV Style
	LMR400-75	75 Ohm	0.405"	PE	1.181	2.415	3.914	7.110	9.472	LMR Connector
RG12		75 Ohm	0.463"	PE	2.200	4.600	7.700			Std & Armour Connector
	LMR400-75	75 Ohm	0.405"	PE	1.181	2.415	3.914	7.110	9.472	LMR Connector

* NOTE: RG6 and RG11 have CATV Alternatives with larger center conductors than standard. Please contact our sales consultants for more information.

Equivalent Corrugated Copper Foam Dielectric Cables

Summary Table

RFS Product	Cable Type	Outer Diameter	Equiv Andrew Product
SCF14-50J	Super Flexible Feeder	¼"	FSJ1-50A
SCF38-50J	Super Flexible Feeder	3/8"	FSJ2-50
SCF12-50J	Super Flexible Feeder	½"	FSJ4-50B
UCF78-50J	Ultra Flexible Feeder	7/8"	VXL5-50
UCF114-50J	Ultra Flexible Feeder	1 ¼"	VXL6-50
LCF12-50J	Low Loss Feeder	½"	LDF4-50A
LCF78-50J	Low Loss Feeder	7/8"	LDF5-50A
LCFS114-50J	Low Loss Feeder	1 ¼"	LDF6-50
LCF158-50J	Low Loss Feeder	1 5/8"	LDF7-50A