Mini-Circuits®

Test Cables Coaxial-Flex
CBL+ Series

50Ω DC to 18 GHz

Model No.	Connector Type (Male)		Freq. (GHz)	Length (FT)	Insertion Loss (dB)								Return Loss (dB)								Case Style
					DC-2.5 GHz		2.5-6 GHz		6-12 GHz		12-18 GHz		DC-2.5 GHz		2.5-6 GHz		6-12 GHz		12-18 GHz		
	Conn 1	Conn 2	$f_L - f_U$		Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	Typ.	Min.	
CBL-1.5FT-SMSM+	SMA-Male	SMA-Male	DC-18	1.5	0.25	0.6	0.4	0.85	0.7	1.2	1.0	1.4	30	23	30	20	27	17	27	17	GM1006-7
CBL-2FT-SMSM+	SMA-Male	SMA-Male	DC-18	2	0.4	0.6	0.7	0.85	1.1	1.25	1.4	1.6	30	23	30	20	27	17	27	17	GM1006-2
CBL-2FT-NMNM+	N-Male	N-Male	DC-18	2	0.4	0.6	0.7	0.85	1.1	1.25	1.4	1.6	30	23	30	20	27	17	27	17	GM1106-2
CBL-2FT-SMNM+	SMA-Male	N-Male	DC-18	2	0.4	0.6	0.7	0.9	1.1	1.25	1.4	1.6	30	23	30	20	27	17	27	17	GM1105-2
CBL-2FT-SFNM+	SMA-Fem	N-Male	DC-18	2	0.4	0.6	0.7	1.0	1.1	1.40	1.4	1.8	30	23	30	20	27	17	27	17	GM1132-2
CBL-3FT-SMSM+	SMA-Male	SMA-Male	DC-18	3	0.6	0.8	1.0	1.2	1.5	1.8	1.9	2.25	30	23	30	20	27	17	27	17	GM1006-3
CBL-3FT-SFSM+	SMA-Fem	SMA-Male	DC-18	3	0.6	0.8	1.0	1.3	1.5	1.9	1.9	2.45	30	23	30	20	27	17	27	17	GM1133-3
CBL-3FT-NMNM+	N-Male	N-Male	DC-18	3	0.6	0.8	1.0	1.2	1.5	1.8	1.9	2.25	30	23	30	20	27	17	27	17	GM1106-3
CBL-3NQK+	N-Male*	N-Male	DC-18	3	0.6	0.8	1.0	1.3	1.6	1.9	2.0	2.45	30	23	30	20	27	17	27	17	GM1106-3
CBL-3FT-SMNM+	SMA-Male	N-Male	DC-18	3	0.6	0.8	1.0	1.3	1.5	1.8	1.9	2.25	30	23	30	20	27	17	27	17	GM1105-3
CBL-3FT-SFNM+	SMA-Fem	N-Male	DC-18	3	0.6	0.8	1.0	1.35	1.5	1.95	1.9	2.45	30	23	30	20	27	17	27	17	GM1132-3
CBL-4FT-SMSM+	SMA-Male	SMA-Male	DC-18	4	0.55	0.85	1.0	1.5	1.6	2.25	2.25	2.9	30	23	30	20	27	17	27	17	GM1006-4
CBL-4FT-SMNM+	SMA-Male	N-Male	DC-18	4	0.55	0.85	1.0	1.5	1.6	2.25	2.25	2.9	30	23	30	20	27	17	27	17	GM1105-4
CBL-6FT-SMSM+	SMA-Male	SMA-Male	DC-18	6	1.2	1.4	2.0	2.2	3.0	3.35	3.8	4.3	30	23	30	20	27	17	22	17	GM1006-6
CBL-6FT-NMNM+	N-Male	N-Male	DC-18	6	1.2	1.4	2.0	2.2	3.0	3.35	3.8	4.3	30	23	30	20	27	17	22	17	GM1106-6
CBL-6FT-SMNM+	SMA-Male	N-Male	DC-18	6	1.2	1.4	2.0	2.3	3.0	3.35	3.8	4.3	30	23	30	20	27	17	22	17	GM1105-6
CBL-6FT-SFNM+	SMA-Fem	N-Male	DC-18	6	1.1	1.4	2.0	2.35	3.0	3.55	3.8	4.55	30	23	30	20	27	17	22	17	GM1132-6
CBL-12FT-SMSM+	SMA-Male	SMA-Male	DC-18	12	2.0	2.45	3.8	4.4	5.9	6.7	7.3	8.7	30	23	30	20	27	17	22	17	GM1006-11
CBL-15FT-NMNM+	N-Male	N-Male	DC-18	15	2.5	2.95	4.94	5.5	7.32	8.35	9.25	10.85	30	23	30	20	27	17	22	17	GM1106-7
CBL-15FT-SMNM+	SMA-Male	N-Male	DC-18	15	2.5	2.95	4.94	5.5	7.32	8.35	9.25	10.8	30	23	30	20	27	17	22	17	GM1105-7
CBL-20FT-NMNM+	N-Male	N-Male	DC-18	20	3.3	3.85	6.2	7.25	9.4	11.05	12.0	14.3	30	23	30	20	27	17	22	17	GM1106-8
CBL-25FT-NMNM+	N-Male	N-Male	DC-18	25	4.1	4.8	7.8	9.0	11.7	13.7	15.0	17.8	30	23	30	20	27	17	22	17	GM1106-9

Custom sizes available, consult factory. *Quick-turn connector, 1.5T to mate on one side only (marking: 1T)

+ RoHS compliant in accordance with EU Directive (2002/95/EC)

The +Suffi x has been added in order to identify RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifi cations.

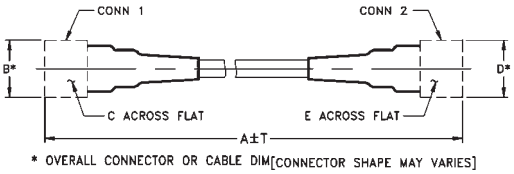
Features:

- RoHS compliant
- wideband coverage, DC to 18 GHz
- extra rugged construction with strain relief for longer life
- stainless steel SMA and Type N connectors for long mating-cycle life
- useful over temperature range, -55°C to 105°C
- triple shield cable for excellent shielding effectiveness
- fl exible for easy connection & bend radius
- superior stability of insertion loss, VSWR & phase vs. fl exing
- 6 month guarantee*

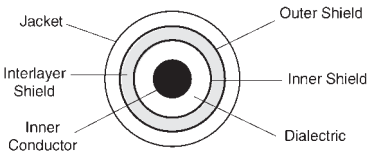
Applications:

- high volume production test stations
- research & development labs
- environmental & temperature test chambers
- replacement for OEM test port cables
- field RF testing
- cellular infrastructure site testing

Cable Cross Section



Outline Drawing



Cable Construction

Inner Conductor	Solid Silver Plated Copper Clad Steel
Dielectric	Solid PTFE
Shield	Silver-Plated Copper Flat Ribbon Braid Aluminum-Polymide Tape Interlayer 36 GA Silver-Plated Copper Braid (90%k)
Jacket	Clear FEP
Connectors	

- passivated stainless steel
- captive contact
- thick wall interface (SMA)
- gold plated beryllium copper center contacts
- PTFE dielectric

Maximum Ratings

Operating Temperature	-55°C to 105°C
Storage Temperature	-55°C to 105°C

Shielding Effectiveness	>100 dB
Power Handling at 25°C	891W Max. at 0.4 GHz
	539W Max. at 1 GHz
	363W Max. at 2 GHz
	180W Max. at 6 GHz
	117W Max. at 12 GHz
	88W Max. at 18 GHz