ADVANCED TECHNICAL MATERIALS INC.

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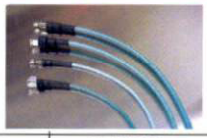
FLEXIBLE MICROWAVE LOW LOSS CABLE ASSEMBLIES, RAW CABLES AND CONNECTORS


Model No.	CF-100	CF-135	CF-160	CF-210	CF-300	CF-500
Freq. Operation	DC-62Ghz	DC-43Ghz	DC-35Ghz	DC-30Ghz	DC-18Ghz	DC-11Ghz
Size O.D. (Inches)	0.110	0.145	0.170	0.220	0.310	0.500
Impedance (ohms)	50	50	50	50	50	50Dielectric Type
Dielectric Type	SPTFE	EPTFE	SPTFE	EPTFE	EPTFE	PE
Capacitance (pF/ft)	29	24	29	24	24	23
Time Delay (ns/ft)	1.4	1.2	1.4	1.2	1.2	1.15
Velocity (%)	70	84	70	84	84	85
RF Leakage	>100dB to 18 GHz	>100dB to 18GHz >80dB to 40 GHz	>100dB to 18GHz	>100dB to 18GHz	>100dB to 18GHz	>100dB to 11GHz
Cut Off Frequency (GHz)	62	43	35	30	18	11
Weight (lbs/100ft)	1.9	3	6.5	7	12.5	15
Min Bend Radius (in)	0.25	0.5	0.75	1.0	2.0	3.0
Temp Range (min/max °C)	-65°/+200°	-65°/+200°	-65° to +200° C	-65°/+200°	-65°/+200°	-65°/+90°
Total Cable assembly * loss for 12" Assembly @ 10	0.75	0.48	0.61	0.46	0.39	0.35

Cable Assembly CF

Typical Cable #: CF—210—72—SM—NM

Basic Model #:
Cable Type:
Length (in):
Connector1:
Connector 2:

Raw Cable CFR

Typical Cable #: CFR—210

Basic Model #:
Cable Type:

Connectors

Typical Part #: SM—210

* Connector Type #:
Cable Type:

Connector Type*	Code Male	Code Female
SMA	SM	SF
2.9mm (K)	KM	KF
Type N	NM	NF
SC	SCM	SCF

See ATM Website for More Connector Options

PIN DIODE SOLID STATE SWITCHES

Frequency.: 0.5-18.0 GHz Peak Power:75 watt, 1µs pulse width
RF Power: +10 dBm spec compliant +30 dBm survival (OW)

See Web for SP2T, SP3T, SP4T

Type: SP1T Reflective				Model No. S1517D			
Ins. Loss	Isolation Loss	VSWR Input/Output	Switching Speed (off/on)	Switching Speed (on/off)	Control Logic TTL	Power DC	Oper. Temp.
2.5 dB	0.5-2GHz 37dB 2-18 GHz 80dB	1.8:1 max	20ns max (50% TTL to 90% RF)	20ns max (50% TTL to 90% RF)	1 line, logic 1 path on	±15VDC at at 40 mA	-45°C to +85°C

CIRCULATOR / ISOLATOR


Frequency	ISO (db) Typ.	ISO (db) Min.	Loss(dB) Typ.	Loss(dB) Max.	VSWR Typ.	VSWR Max.	Power (Watts) Avg.	Power (Watts) Peak	Model Number Ciculator	Model Number Isolator
1.0 - 2.0	20	15	0.35	0.50	1.25	1.35	2	20	ATc1-2	ATi1-2
2.0 - 4.0	20	18	0.40	0.50	1.25	1.30	2	20	ATc2-4	ATi2-4
2.6 - 5.2	20	18	0.40	0.50	1.25	1.30	2	20	ATc2.6-5.2	ATi2.6-5.2
3.0 - 6.0	21	19	0.35	0.40	1.25	1.30	2	20	ATc3-6	ATi3-6
4.0 - 8.0	22	20	0.35	0.40	1.18	1.25	2	20	ATc4-8	ATi4-8
5.0 - 10.0	16	15	0.90	1.00	1.40	1.45	2	20	ATc5-10	ATi5-10
6.0 - 12.4	19	17	0.50	0.60	1.30	1.35	2	20	ATc6-12	ATi6-12
6.0 - 18.0	15	14	0.90	1.00	1.45	1.50	2	20	ATc6-18	ATi6-18
8.0 - 12.4	22	20	0.35	0.40	1.18	1.25	2	0	ATc8-12.4	ATi8-12.4
8.0 - 18.0	17	16	0.70	0.80	1.40	1.45	2	30	ATc8-18	ATi8-18
18.0-26.5	20	18	0.70	0.80	1.35	1.40	2	30	ATc18-26.5	ATc18-26.5
26.5 - 40.0	15	14	0.80	1.00	1.45	1.50	2	30	ATc26.5-40	ATi26.5-40

See ATM Website for ranges 0.8 GHz to 40 GHz & Waveguide Models

Note: ATM Standard Parts come with SMA Female Connectors In and Out
For other connector configurations see web
*Power specs are for Isolators. Circulators can handle up to 10x's the average power
**2.9 mm (f) Connectors Used

15.5db ENR Noise Sources

Housing: .75"X.75"X3.4"(Max).
DC Input: BNC (F) Conn.
RF Output: SMA (M) or type 2.9mm(M)

Model No.	Freq (GHz)	Noise Output (ENR -dB)	VSWR(max) ON/OFF	Calibration Frequencies	Package* Code
NX1502R	0.01-1.60	15.5 +/-1.0	1.20:1	10,70, 140 MHhz	R
NX1512X	1-2	15.5 +/-0.5	1.20:1	0.5 GHz Increments	X
NX1524X	2-4	15.5 +/-0.5	1.20:1	1.0 GHz Increments	X
NX1548X	4-8	15.5 +/-0.5	1.20:1	1.0 GHz Increments	X
NX15812X	8-12	15.5 +/-0.5	1.35:1	1.0 GHz Increments	X
NX151218X	12-18	15.5 +/-0.5	1.35:1	1.0 GHz Increments	X
NX151826T	18-26.5	15.5 +/-1.0	1.35:1	1.0 GHz Increments	T
NX15238T	2-0.38.0	15.5 +/-2.0	1.35:1	1.0 GHz Increments	
NX152640T	26.5-40.0	15.5 +/-2.0	1.35:1	1.0 GHz Increments	T

*X or T package may be selected for either series by changing the suffix of the model number. Example: NX1512X=NX1512Y

High Output ENR Noise Sources

Housing: .5"X.5"X2.84"(Max).
DC Input: SMA (F) Conn.
RF Output: SMA or type 2.9 mm(M)

Model No.	Freq (GHz)	Noise Output (ENR dB)	Noise Flatness (dB)	Calibration Frequencies	Package* Code
NX3202S	0.01-1.6	30-36	+/- 2.0	10, 70, 140 MHz	S
NX3212Y	1-2	30-35	+/- 1.0	0.5 GHz Increments	Y
NX3224Y	2-4	30-35	+/- 1.0	1.0 GHz Increments	Y
NX3248Y	4-8	30-35	+/- 1.0	1.0 GHz Increments	Y
NX32812Y	8-12	28-33	+/- 1.0	1.0 GHz Increments	Y
NX321218Y	12-18	26-32	+/- 1.0	1.0 GHz Increments	Y
NX231826V	18-26.5	23 +/-1.5	+/- 1.0	1.0 GHz Increments	V
NX23226V	2-26.5	23 +/-2.0	+/- 2.0	1.0 GHz Increments	V
NX322638V	26.5 - 38.0	22.0 +/- 1.5	+/- 1.0	1.0 GHz increments	V
NX322640V	26.5 - 40.0	22.0 +/- 1.5	+/- 1.0	1.0 GHz increments	V

*Y or V package may be selected for either series by changing the suffix of the model number. Example: NX3201Y=NX3201X

See ATM Website for More Connector Options

See ATM Website for Add'l Models & Dimensions

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