

- ◆ Low PIM <-155 dBc
- ◆ High Average Power Rating
- ◆ Minimal RF Insertion Loss
- ◆ Excellent VSWR
- ◆ Rugged, High Reliability
- ◆ N, 7-16, and 4.3-10 Connectors
- ◆ Plenum rated Class CMP
- ◆ RoHS compliant

Microlab Model JD & JE series, Corrugated Coaxial Jumper Cables are built for reliability and consistent extremely low PIM performance. This superflex cable provides mechanical durability where tight bend radius is required. Using controlled manufacture, low PIM cable and trimetal plating the connectors ensures good intermodulation performance.

All cables are fully interchangeable with connectors made to the MIL-C-39012 specification.



Model JD-10TN



Model Numbers

Cable Diameter		Connector 1	Connector 2
1/4"	1/2"		
JD-xxMA	JE-xxMA	N-type(m)	7-16(m)
JD-xxMD	JE-xxMD	7-16(m)	7-16(m)
JD-xxMN	JE-xxMN	N-type(m)	N-type(m)
JD-xxTN	JE-xxTN	N-type(m)	N-type(f)
JD-xxMX	JE-xxMX	4.3-10(m)	4.3-10(m)

xx specifies the cable length in decimeters
example: JD-10MN: 10 decimeters (1 meter)
N(m-m) 1/4" diameter cable

Loss Specifications per meter (~39") cable

Frequency	1/4" Loss/m	1/2" Loss/m
300 MHz	<0.13 dB	<0.07 dB
700 MHz	<0.22 dB	<0.12 dB
850 MHz	<0.24 dB	<0.13 dB
1000 MHz	<0.26 dB	<0.14 dB
1700 MHz	<0.36 dB	<0.18 dB
2100 MHz	<0.42 dB	<0.21 dB
2700 MHz	<0.48 dB	<0.23 dB
3000 MHz	<0.50 dB	<0.26 dB
6000 MHz	<0.80 dB	<0.44 dB

Electrical Specifications

	Cable Diameter	
	1/4"	1/2"
Frequency:	DC to 6,000 MHz	
Shielding:	>90 dB	
VSWR:	<1.30:1	<1.25:1
Power, max.	140 W avg	380 W avg
Peak Power, max	6 kW	40 kW
Test Voltage dc:	1600	4000
Impedance:	50Ω nominal	
PIM (Intermod):	<-155 dBc; <-160 typ. (+43dBm x2, at 1800 MHz)	

Cable Specifications

	Cable Diameter	
	1/4"	1/2"
Jacket Diameter:	0.290 in.	0.625 in
Material:	Blue Extruded FEP	
Conductor Diameter:	0.075 in	0.190 in
Material:	Silver Plated Copper	
Dielectric Diameter:	0.190 in	0.510 in
Material:	Microporous PTFE	
Shielding Diameter:	0.250 in	0.550 in
Material:	Corrugated Copper	
Static Bend Radius:	1.0 in	2.0 in
Bend Cycles, typ:	20	50
RoHS:	Compliant	
Plenum rated:	CMP Rated	
UV Protection:	720 Hr per UL-1581	
Temperature:	-40°C to +125°C	

Connector Specifications

Finish:	Alb alloy plated brass body
Contacts:	Ag/Cu plated BeCu
Dielectrics:	PTFE
Gaskets:	Si Rubber

Note: Specifications are subject to change without prior notification.

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