Low PIM Jumper Cables, JA series

Coaxial Low PIM Cables, straight connectors
DC - 6,000 MHz, N and 7-16 male
Rev. B

- Ultra Low PIM <-158 dBc
- High Average Power Rating
- Minimal RF Insertion Loss
- Excellent VSWR
- Rugged, High Reliability
- Plenum rated Class CMP
- RoHS compliant



Microlab Model JA series, Coaxial Jumper Cables are built for reliability and consistent extremely low PIM performance. Designed for use in all systems where low PIM and very good R.F. and mechanical performance is critical. 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. (04/14)

JA series (Straight to Straight) Model Numbers

JA-xxFA	N(f)	to	7-16(m)
JA-xxFD	7-16(f)	to	7-16(f)
JA-xxFN	N(f)	to	N(f)
JA-xxMA	N(m)	to	7-16(m)
JA-xxMD	7-16(m)	to	7-16(m)
JA-xxMN	N(m)	to	N(m)
JA-xxSA	N(f)	to	7-16(f)
JA-xxTA	N(m)	to	7-16(f)
JA-xxMB	4.1/9.5(m)	to	4.1/9.5(m)
JA-xxTB	4.1/9.5(m)	to	4.1/9.5(f)
JA-xxTD	7-16(m)	to	7-16(f)
JA-xxTN	N(m)	to	N(f)

xx specifies the cable length in decimetersr
example: JA-10MN: 10 decimeters (1 meter)
N(m-m) cable

Loss Specifications per meter (~39") cable

Frequency	Loss/m
380 MHz	<0.3 dB
960 MHz	<0.5 dB
1700 MHz	<0.6 dB
2700 MHz	<0.8 dB
6000 MHz	<1.2 dB.

Electrical Specifications

Frequency:	DC to 6,000 MHz
Shielding:	>90 dB
VSWR:	<1.22:1
DWV:	750 VAC max.
Impedance:	50Ω nominal
RoHS:	Compliant
PIM (Intermod):	<-158 dBc; <-164 typ. (+43dBm x2, at 1800 MHz)
Power Rating:	100 W avg., 3 kW pk.

Connector Specifications

Finish:	Albaloy plated brass body
Contacts:	Ag/Cu plated BeCu
Dielectrics:	PTFE
Gaskets:	Si Rubber
Interface:	per MIL-STD-348
Coupling Proof Torque:	15 in*lbs
Coupling Retention:	60 lbs axial
Bend Radius:	0.5 max.

Cable Specifications

Diameter:	Jacketed .141 Rigid Type
Conductor (ø.037"):	Silver Plated Copper
Dielectric: (ø.113)	Microporous PTFE
Braid (ø.121):	Ag Plated Flat Copper
Outer Braid (ø.138):	Ag Plated Copper Wire
Jacket (ø.160):	Extruded FEP
Major Diameter:	ø.165 max
Static Bend Radius:	0.75R
Temperature:	-40°C to +125°C

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