Coaxial Cable Assemblies, JA series

Low PIM cables with straight connectors, DC - 6 GHz
4.3-10, N-type and 7-16 DIN
Rev. J

- Ultra-wideband for C-band & NR-U applications
- Guaranteed Low PIM
- 100W Average Power Rating
- Minimal RF Insertion Loss
- 4.3-10, 7-16 DIN, or N-type connector combinations
- Plenum rated class CMP
- RoHS compliant



Microlab JA series coaxial cable assemblies are built for reliability and guaranteed low PIM performance. Designed for use in all systems where low loss and mechanical flexibility are crucial. Low PIM cable and tri-metal plated connectors ensure good intermodulation performance. All cables are fully interchangeable with connectors made to the MIL-C-39012 specification.

JA series (Straight to Straight) Model Numbers

JA-xxMX	4.3-10(m)	to	4.3-10(m)
JA-xxMY	4.3-10(m)	to	7-16(m)
JA-xxMZ	4.3-10(m)	to	N-type(m)
JA-xxTX	4.3-10(m)	to	4.3-10(f)
JA-xxTZ	4.3-10(m)	to	N-type(f)
JA-xxFZ	4.3-10(f)	to	N-type(m)
JA-xxTY	4.3-10(f)	to	7-16(m)
JA-xxMA	N-type(m)	to	7-16(m)
JA-xxMN	N-type(m)	to	N-type(m)
JA-xxTA	N-type(m)	to	7-16(f)
JA-xxTN	N-type(m)	to	N-type(f)
JA-xxFA	N-type(f)	to	7-16(m)
JA-xxFN	N-type(f)	to	N-type(f)
JA-xxND	N-type(f)	to	7-16(f)
JA-xxMD	7-16(m)	to	7-16(m)
JA-xxTD	7-16(m)	to	7-16(f)
JA-xxFD	7-16(f)	to	7-16(f)

xx specifies the cable length in decimeters(<30 dm)
E.g.: JA-10MX: 10 decimeters (1 meter) 4.3-10 (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:	-164 dBc (-121 dBm) typ. <-158 dBc(-115 dBm)
(Tested with 2x 1900 MHz, +43 dBm tones @ ambient)	
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

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:	0.75" R
Temperature:	-40°C to +125°C

Note: Specifications are subject to change without prior notification. 16SEP2021

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