

- ◆ Ultra-wideband for 5G (Low/Mid/C-Band), Public Safety, & WiFi
- ◆ Guaranteed Low PIM
- ◆ 100W Average Power Rating
- ◆ Minimal RF Insertion Loss
- ◆ Rugged & High Reliability
- ◆ Plenum rated, CMP UL Listing
- ◆ RoHS compliant



Microlab JA series coaxial cable assemblies are developed for reliability and guaranteed low PIM performance. These cables are designed for D-RAN and Small Cell deployments, where low loss and cable flexibility are crucial. JA cables are ideal for interconnections between radios, antennas, and RF passive components.

Frequency:	DC to 6 GHz
Impedance:	50Ω nominal
Shielding:	90 dB min.
RoHS:	Compliant
PIM:	
No QMA/SMA present:	<-161 dBc typ., -158dBc min.
Assemblies with QMA:	<-153 dBc typ., -150dBc min.
Assemblies with SMA:	<-155 dBc typ., -153dBc min.
	(Test with 2x tones @+43dBm)
VSWR	<1.15:1 (DC -3 GHz)
	<1.25:1 (3 - 6 GHz)
Power:	100 W avg, 3kW pk.
Velocity of Propagation:	70.8%
Environment:	-40°C to +125°C

JA Series - Part Number Generator

See complete "To Order" table on page 2

Part Family "JA"	Cable Length "10": 1 meter (10 decimeters) "20": 2 meter (20 decimeters)
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JA-10-ME-FE

Connector 1	Connector 2
"ME": 4.3-10(m)	"FE": 4.3-10(f)
	"ME": 4.3-10(m)
	"MN": Type N(m)
	"MQ": QMA(m)
"MN": Type N(m)	"FN": Type N(f)
	"MN": Type N(m)
	"MQ": QMA(m)
"MG": 2.2-5(m)	"MN": Type N(m)
	"MQ": QMA(m)
	"MS": SMA(m)
"MT": NEX10(m)	"MT": NEX10(m)
	"ME": 4.3-10(m)

Frequency	Loss/m(dB)
380 MHz	<0.3
960 MHz	<0.5
1700 MHz	<0.6
2700 MHz	<0.8
3450 MHz	<0.9
6000 MHz	<1.0

Connector Specifications

Body/Nut:	Brass, Tri-metal plated
Center Conductor:	Brass, Silver plated
Dielectrics:	PTFE
Gaskets/O-ring:	Silicon Rubbe

Cable Specifications

Inner Conductor:	Silver plated copper (0.037")
Dielectric:	PTFE (0.118")
Outer Conductor:	Tinned Soaked Copper Braid (0.141")
Jacket:	Extruded FEP, CMP (0.163")
Static Bend Radius:	0.4"

Note: Specifications are subject to change without prior notification.

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JA Series - To Order

Part Number	Length (meter)	Connector 1	Connector 2	Legacy Part #
JA-10-ME-ME	1	4.3-10(m)	4.3-10(m)	JA-10MX
JA-10-ME-FE	1	4.3-10(m)	4.3-10(f)	JA-10TX
JA-10-ME-MN	1	4.3-10(m)	Type N(m)	JA-10MZ
JA-10-ME-MQ	1	4.3-10(m)	QMA(m)	--
JA-20-ME-ME	2	4.3-10(m)	4.3-10(m)	JA-20MX
JA-20-ME-MN	2	4.3-10(m)	Type N(m)	JA-20MZ
JA-20-ME-FE	2	4.3-10(m)	4.3-10(f)	JA-20TX
JA-20-ME-MQ	2	4.3-10(m)	QMA(m)	--
JA-10-MN-MN	1	Type N(m)	Type N(m)	JA-10MN
JA-10-MN-FN	1	Type N(m)	Type N(f)	JA-10TN
JA-10-MN-MQ	1	Type N(m)	QMA(m)	--
JA-20-MN-MQ	2	Type N(m)	QMA(m)	--
JA-20-MN-MN	2	Type N(m)	Type N(m)	JA-20MN
JA-20-MN-FN	2	Type N(m)	Type N(f)	JA-20TN
JA-10-MG-MN	1	2.2-5(m)	Type N(m)	--
JA-10-MG-MQ	1	2.2-5(m)	QMA(m)	--
JA-10-MG-MS	1	2.2-5(m)	SMA(m)	--
JA-20-MG-MS	2	2.2-5(m)	SMA(m)	--
JA-20-MG-MN	2	2.2-5(m)	Type N(m)	--
JA-20-MG-MQ	2	2.2-5(m)	QMA(m)	--
JA-10-MT-MT	1	NEX10(m)	NEX10(m)	--
JA-20-MT-MT	2	NEX10(m)	NEX10(m)	--
JA-10-MT-ME	1	NEX10(m)	4.3-10(m)	--
JA-20-MT-ME	2	NEX10(m)	4.3-10(m)	--

If you need additional cable assemblies, our sales team is available to help. Microlab, a division of RF Industries, specializes in creating custom cable assemblies and connectors that are tailored to your specifications, such as type of cable, connectors, and length, with quick turnaround times.