

- ◆ 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

| <u>Frequency</u> | <u>Loss/m</u> |
|------------------|---------------|
| 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 |