

RF Fiber Links for Satellite & Microwave

For nearly 25 years the Ortel Division of EMCORE has pioneered innovative RF fiberoptic solutions, and today offers even more flexibility and convenience. Our complete line of subassemblies and systems removes distance limitations at cost and performance levels suited for headends, broadcast studios, operation centers and satellite earth stations.



8000 Line - Full-featured, Intelsat-compliant links with M&C and redundancy.

| Models (Tx/Rx) | Band | Frequency | Max Distance |
|----------------|---------|-----------------|--------------|
| 8603A / 8604A | IF | 40-200 MHz | 70 km |
| 8710A / 8720A | L | 950-2050 MHz | 55 km |
| 8810B / 8820B | C Down | 3400-4200 MHz | 35 km |
| 8810A / 8820A | C Up | 5845-6725 MHz | 35 km |
| 8850A / 8860A | X | 7250-8400 MHz | 25 km |
| 8910B / 8920B | Ku Down | 10950-12750 MHz | 15 km |
| 8910A / 8920A | Ku Up | 14000-14500 MHz | 15 km |

10000 "WiBa" Line - Flexible, stable links to 40 km in compact 19" racks.

| Models | Description |
|-----------------------------|--------------------------------------|
| 10381, 10382 / 10481, 10482 | Tx / Rx, 5-2700 MHz, 50 Ohm |
| 10383, 10384 / 10483, 10384 | Tx / Rx, 5-2500 MHz, 75 Ohm |
| 10990A, 10901A, 10901B | Chassis and redundant power supplies |
| 10209 | RF Redundancy Switch Unit |

5100 Line - Basic Links to 2 km for 19" Rack or outdoor installations.

| Models | Description |
|-------------------------------|-----------------------|
| 3120A, 10357A / 4120A, 10457A | Tx / Rx, 10-200 MHz |
| 3110A, 10346A / 4110A, 10446A | Tx / Rx, 950-1450 MHz |
| 3111A, 10346B / 4111A, 10446B | Tx / Rx, 950-1750 MHz |
| 3112A, 10347A / 4112A, 10447A | Tx / Rx, 950-2050 MHz |

Microwave Fiber Links - Flange & rack-mount systems and components.

| Models | Description |
|----------------------------------|---------------------------------------|
| 1540A, 3540A, 10340A | Tx, 5 GHz max, 1310 nm |
| 1541A/B/C, 3541A/B/C, 10341A/B/C | Tx, 10-18 GHz max, 1310 nm |
| 1740A, 3740A, 10370A | Tx, 4 GHz max, 1550 nm |
| 1741A, 3741A, 10371A | Tx, 10 GHz max, 1550 nm |
| 2510A/B, 4510A/B, 10450A/B | Rx, 3-6 GHz max |
| 2515A/B, 4515A/B, 10455A/B | Rx, 10-12 GHz max |
| 2516A/B/C, 4516A/B/C, 10456A/B/C | Rx, 15-20 GHz max |
| 2158A/B, 4518A/B, 10458 A/B | Rx, 10-15 GHz max, high optical input |
| 5016A/B/C/D | Transceiver, 4-18 GHz max |
| 355A, 356A, 357A | Fiber delay spool, ≤200 microsec. |

Applications

- Earth Stations
- CATV Headends
- Broadcast
- Cellular / PCS - tunnels, etc.
- GPS, Radar, Surveillance

Features

- Widest Range of Performance, Package & Frequency Options in the Industry
- 20 GHz Bandwidths
- Systems for IF, L, S, C, X, & Ku
- Long Distances
- EMI, Lighting & Security Protection
- Cost-Saving Architectures