

Installation NOTES

Install Coax Copper

STAR TOPOLOGY

- MAXIMUM coax segment to active hub is 600 meters (2000 feet) on RG-62 cable; minimum does not apply.

BUS TOPOLOGY

- Devices attached to coax bus must be located AT LEAST six (6) feet apart.
- MAXIMUM coax bus length is 300 meters (1000 feet); minimum is 1.8 meters (6 feet).
- Device(s) attached to EACH END of bus must be terminated.
NOTE: If the media converter is installed at one end of the bus, use the configuration switch to terminate the media converter.

CONFIGURATION SWITCH

NOTE: Set configuration switch (located on the side of media converter) according to site installation requirements:

Switch 1	NOT USED	
Switch 2	UP = OFF	Media converter TRANSFERS signal
	DOWN = ON	Media converter TERMINATES signal.

Install Fiber

- Connect one end of *first* fiber cable to AR-CF-02 media converter **TX** connector.
- Connect other end of *that* fiber cable to *second* AR-CF-02 media converter **RX** connector.
- Connect one end of *second* fiber cable to AR-CF-02 media converter **RX** connector.
- Connect other end of *that* fiber cable to AR-CF-02 media converter **TX** connector.

Power

- Locate correct power supply adapter for site installation.
- Connect media converter power connector at end of power supply adapter cord to AR-CF-02 media converter power receptacle.
- Connect 2-prong or 3-prong external power connector on other end of power supply adapter cord to external AC power.

CABLE SPECIFICATIONS

The physical characteristics of the cable must meet or exceed the following:

FIBER CABLE

MULTIMODE

Fiber Optic Cable Recommended:	62.5 / 125 μ m multimode fiber	
Fiber Optic Transmitter Power:	min: -19.0 dBm	max: -14.0 dBm
Fiber Optic Receiver Sensitivity:	min: -32.5 dBm	max: -14.0 dBm
Wavelength:	850nm	
Bit error rate:	$\leq 10^{-9}$	
Maximum Cable Distance:	2 kilometers	

SINGLEMODE

Fiber Optic Cable Recommended:	9 μ m singlemode fiber	
Fiber Optic Transmitter Power:	min: -27.0 dBm	max: -17.0 dBm
Fiber Optic Receiver Sensitivity:	min: -32.5 dBm	max: -13.0 dBm
Wavelength:	1300nm	
Bit error rate:	$\leq 10^{-9}$	
Maximum Cable Distance:	8 kilometers	

COAX CABLE/STAR TOPOLOGY

RG-62 Cable

Cable Characteristics:	
Cable type:	Coaxial RG-62/u
Impedance:	75 Ω @ 10 MHz
Mutual Capacitance:	13 pF/ft $\pm 20\%$ @ 10 MHz
Maximum Attenuation:	5.5 dB/1000 feet
Maximum Cable Distance:	600 meters (2000 feet)
Minimum Distance/Connection:	0 meters (0 feet)

RG-59 Cable

Cable Characteristics:	
Cable type:	Coaxial RG-59/u
Impedance:	93 Ω @ 10 MHz
Mutual Capacitance:	13 pF/ft $\pm 20\%$ @ 10 MHz
Maximum Attenuation:	7.0 dB/1000 feet
Maximum Cable Distance:	450 meters (1500 feet)
Minimum Distance/Connection:	0 meters (0 feet)

COAX CABLE/BUS TOPOLOGY

RG-62 Cable

Cable Characteristics:	
Cable type:	Coaxial RG-62/u
Impedance:	93 Ω @ 10 MHz
Mutual Capacitance:	13 pF/ft $\pm 20\%$ @ 10 MHz
Maximum Attenuation:	5.5 dB/1000 feet
Maximum Cable Distance:	300 meters (1000 feet)
Minimum Distance/Connection:	1.8 meters (6 feet)

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