

## 100Mbps Ethernet over coaxial cable with Power



### A ComNet ValueLine Product

**Lower price: designed for installation in benign (0 to +50° C) operating environments.**

### Description

The ComNet™ CWFE1POCOAX Series transports Ethernet and camera/device operating power between the remote device and head-end location using existing 75Ω coaxial cable. It eliminates the need to have a separate power source at the remote location and provides operating power for the remote ComNet media converter and PoE device. Based on the IEEE 802.3af standard for Power over Ethernet (PoE), the CWFE1POCOAXA provides up to 15.4 Watts of operating power to the remote powered device (PD). The CWFE1POCOAXA transports Ethernet data at rates of 100 Mbps over a distance of 230 meters (750 feet) over standard 75Ω coaxial cable. The CWFE(1,2)POCOAXA is used at the head end and the CWFE1POCOAXB is used at the remote location.

### Applications

- Ethernet transmission over existing 75Ω coaxial cable

### Features

- Supports transmission distances of up to 230 m (750 ft) over coaxial cable
- Power over Coax source – meets IEEE802.3af standard for PoE
- Power over Ethernet (PoE) 15 Watts
- Ethernet data rates of 100 Mbps
- BNC connector for coaxial cable
- IEEE802.3 Compliant
- Made in the USA
- Power Supply Included
- Five Year Warranty

**specifications**

**INTERFACE**

**Ethernet Port:**

- Ethernet connector: RJ45
- Cable: Cat 5, Cat 5e, Cat 6
- Data Rate: 100Mbps
- Distance: 100m (328ft)
- Electrical: 15.4W (max)

**Line Side Port (75Ω Coax):**

- Coaxial connector: BNC
- Impedance: 75Ω coax

Max Distance: 100Mbps throughput up to 230 m (750 ft)

**SIZE (LxWxH)**

6.1 × 5.3 × 1.1 in.,  
(15.5 × 13.5 × 2.8 cm)  
Shipping Weight: <2 lb./0.9 kg

**ENVIRONMENTAL**

- MTBF: >100,000 hours
- Operating Temp: 0° C to +50° C
- Storage Temp: -40° C to +85° C
- Relative Humidity: 0% to 95% (non-condensing)\*

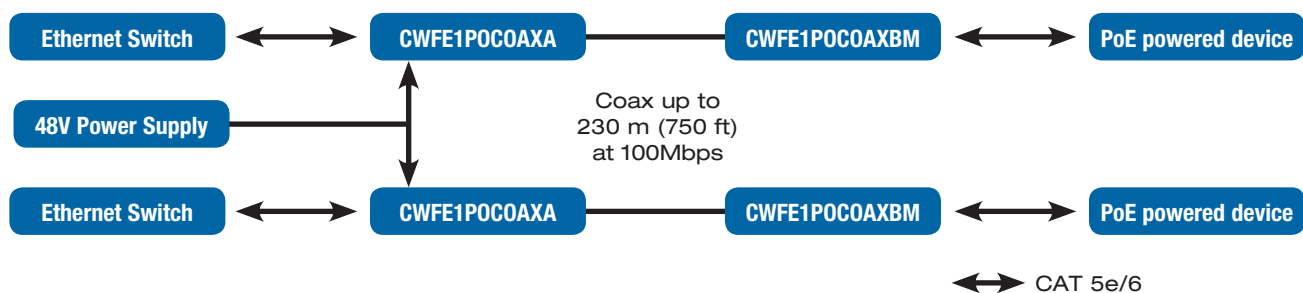
\* May be extended to humidity with condensation conditions by adding suffix '/C'

**ELECTRICAL & MECHANICAL**

- Power: 48VDC@0.84A or 1.25A
- Stand Alone: From Rack - Will not enable Power over Coax function, external power supply required.
- Rack Mount: 1
- Number of Rack Slots: Automatic Resettable Solid-State Current Limiters
- Current Protection: Meets IPC Standard
- Circuit Board:



PART NUMBER	DESCRIPTION	MEDIA REQUIRED	MAX. DISTANCE	# RACK SLOTS
CWFE1POCOAXA CWFE2POCOAXA	Power over Coax; Power over Ethernet (PoE) Dual Power over Coax; Power over Ethernet (PoE)	75Ω Coax 75Ω Coax × 2	100Mbps throughput up to 230 m (750 ft)	1
PS48VDC-.84A PS48VDC-1.25A	Power supply for CWFE1POCOAXA (included with purchase of that unit) Power supply for CWFE2POCOAXA (included with purchase of that unit)			



3 CORPORATE DRIVE | DANBURY, CT 06810 | USA  
 T: 203.796.5300 | F: 203.796.5303 | TECH SUPPORT: 1.888.678.9427 | INFO@COMNET.NET  
 8 TURNBERRY PARK ROAD | GILDERSOME | MORLEY | LEEDS, UK LS27 7LE  
 T: +44 (0)113 307 6400 | F: +44 (0)113 253 7462 | INFO-EUROPE@COMNET.NET