

Corinex 5+1 BPL AC Coupler

Introduction

The Corinex 5+1 BPL AC coupler is a passive electronic device that operates in the 1 to 35 MHz frequency band. It is paired with the Corinex Smart Grid Data Concentrator to enable BPL communications on the LV and/or MV grid.

Alternatively, the product can be used to inject Powerline signals into upwards of 5 electrical connections, from one Powerline master device. All circuits then become one common Powerline network for data, VoIP, or IP Video conferencing. The Corinex 5+1 coupler is ideal for AMI/BPL deployment in Multi-Dwelling Units and substations by connecting to multiple feeders/lines. The phase coupler has a coaxial input for compatibility with Corinex CableLAN adapters.

Customer Premise Equipment (CPE) BPL access devices can be slaved to a master device via the 5+1 coupler. The bandwidth from the coaxial port (connected to the master or Head-End) is shared between each of the CPE devices.



Technical Specifications

Product Code	CXZ-CXC-PH5
Dimensions (L × W × D)	X mm × Y mm × Z mm
Enclosure	IP
Interfaces	5 × AC connector 1 × neutral connector 1 × BNC connector 2 × USB A-type port
Frequency response	1 ~ 35 MHz
Power input (max)	500 VAC, AC-to-AC 400 VAC, AC-to-BNC/USB 300 VAC, AC-to-Neutral
Signal insertion loss (max)	USB to USB: 0.5 dB USB to BNC: 2.0 dB AC to BNC: 4.0 dB AC to USB: 2.0 dB AC to AC: 3.0 dB
Storage temperature	-40° to 85° C (-40° to 185° F)
Operating temperature	-40° to 70° C (-40° to 158° F)
Storage humidity	10% to 95% non-condensing
Operating Humidity	20% to 90% non-condensing

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