

# CPE Splitter ETSI Option B with Signature Circuit & EMI Suppression



Model SA-2218-0001

**NAME**  
**CPE Splitter ETSI Option B with Signature Circuit & EMI Suppression**

**ORDER NUMBER**  
**SA-2218-0001**

The CPE ETSI option B splitter with Signature Circuit is designed for VDSL2 to 35Mhz. This design is also backwards compatible to ADSL2+ and ADSL and has the added benefit of a built in Common Mode EMI Filter.

The Signature Circuit is built in to support PPA thereby enabling remote metallic test access when the DSLAM is so equipped.

Differential signaling is used in telecommunication utilizing twisted pairs. One of the main advantages of differential signaling is increased resistance to electromagnetic noise which is achieved only if twisted pairs are well balanced.

In the real world, twisted pairs are not perfectly balanced and as a result, interfering signals on Tip and Ring are not the same in amplitude and phase. Coupled signals on Tip and Ring will not be cancelled. The Common Mode EMI Filter provides insertion loss of 30dB of couple signals (Electromagnetic interference signals) without adversely affecting the DSL signal (differential mode). This helps to reduce the effect of EMI on DSL signals and improves stability, service reliability and in many cases can improve bandwidth considerably.

## BENEFITS

- Insulation displacement connectors for quick connect, or Optional RJ11
- Includes Signature Circuit to support PPA
- Small insertion loss in differential mode, typically less than 0.25dB
- High Common Mode Insertion Loss, typically higher than 30dB
- Secondary lightning/surge suppression



## SPECIFICATIONS

**DIMENSIONS** 53mm(H) x 98mm(W) x 13mm(D) (2" x 3 7/8" x 1/2")

**OPERATING TEMPERATURE** -40 to +65 °C  
-40 to +149 °F

## SPECIFICATIONS

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**WEIGHT** 70g (0.15lbs)

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**MOUNTING** Wall mount (accepts two #8 or #10 wood screws)

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**CAPACITY** 1 Subscriber loop per line unit

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**COMMUNICATIONS INTERFACE** Connects to xDSL, POTS service, and local Loop using either RJ-11 connectors or Gel-filled Insulation Displacement Connectors (22AWG, 24AWG or 26AWG solid conductor type)

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**COMPLIANCE**

ETSI TS 101 952 -1 V1\_1\_1 -2009-06  
EMC: ETSI EN 300 386 [10]; Product safety: EN 60950-1 [11]; Directive 2011/65/EU [16];  
Over-voltage and lightning Protection:

- EN 60950-1 [11]
- ITU-T K.20 [12] basic level (with external overvoltage protection)
- ITU-T K.45 [13] basic level (with external overvoltage protection)

Note: the external overvoltage protection is accomplished by a GDT for 420V.

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