

CPE Splitter ETSI with EMI Suppression

Model SA-2210-NS01



NAME

CPE Splitter ETSI with EMI Suppression

ORDER NUMBER

SA-2214-0001

The SA-2210-NS01 is ETSI 600 Ohm VDSL2 option B splitter designed to enable POTS service to coexist with ADSL2+ and VDSL2 (35b) data signals up to 35MHz. This splitter has the added benefit of a built in Common Mode EMI Filter. As networks speed up and the microfilters typically used for xDSL connectivity hit their limitations, carriers need alternative, high-bandwidth CPE solutions that take them to their preferred demarcation point.

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. Both Tip and Ring receive interfering signals with the same amplitude and phase. Due to the fact that twisted pairs are transferring signals in differential mode (signal on Tip minus signal on Ring), the perfect balance will result in any couple signals on tip and ring being cancelled.

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.

BENEFITS

- Insulation displacement connectors for quick connect, or Optional RJ11
- Small insertion loss in differential mode, typically less than 0.25dB
- High Common Mode Insertion Loss, typically higher than 30dB
- Secondary lightning/surge suppression
- Compliant to Telcordia and CSA/UL Standards



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

WEIGHT 70g (0.15lbs)

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

CAPACITY 1 Subscriber loop per line unit

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)

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.
