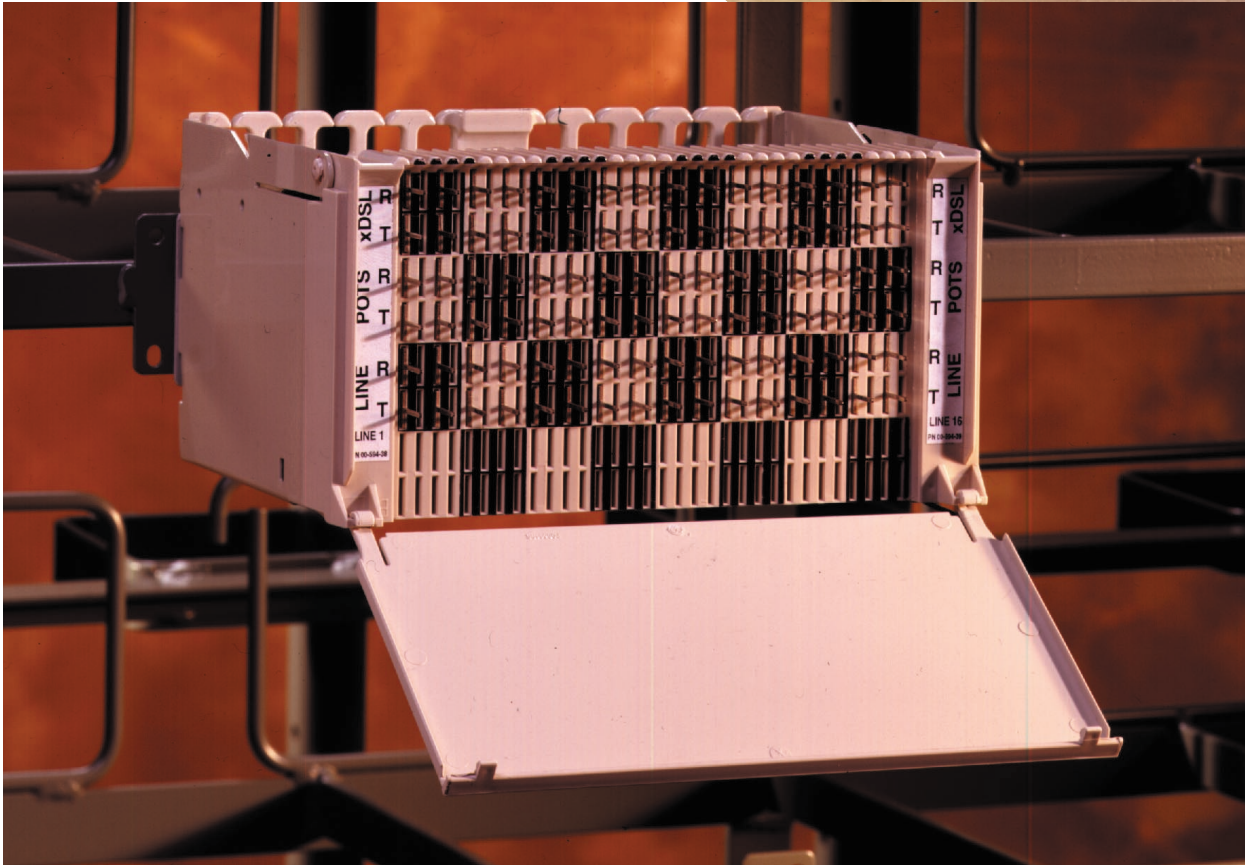


CORNING

Cable Systems

ADSL POTS Splitter Part Number COSA16S1W001



COPPER
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Features / Benefits

- **Central office main distribution frame mounting**
- **ANSI T1.413 compliant**
- **16-line capacity**
- **Single wire wrap termination for each port (LINE, VOICE, and DATA)**
- **Maintenance test signature and DC blocking capacitors included as standard**
- **Other configuration options available upon request**

Corning Cable Systems' ADSL MDF POTS Splitter, Part Number COSA16S1W001, is designed to mount on the distribution side of a conventional central office main distribution frame. Single wire-wrap terminals are provided for connection of twisted pairs to the outside plant line, the POTS switch equipment and the ADSL transmission unit (ATU-C).

The ADSL MDF POTS Splitter contains eight circuit boards, each containing two splitter circuits, for a total capacity of sixteen lines. Each splitter circuit consists of a low pass filter for connection to the POTS switch equipment plus DC blocking capacitors for connection to the ADSL transmission unit.

ADSL POTS Splitter

Part Number COSA16S1W001

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Technical Specifications

Electrical (Complies with ANSI T1.413 Issue 2 Annex E)

DC Loop Current	0 to 100 mA
DC Loop Voltage (tip-to-ring)	0 to -60 VDC
Ringing Signals	103 Vrms superimposed on the DC Loop Voltage, 20 to 30 Hz
DC Resistance	≤ 25 ohms, PSTN tip-to-ring with Line port (U-C) shorted
Insertion Loss	≤ 1.0 dB; short loop, ZTc = 900, ZTr = 600, 1004 Hz ≤ 0.75 dB; long loop, ZTc = 900, ZTr = 600, 1004 Hz
Attenuation Distortion (Voice Band), increase relative to Insertion Loss at 1004 Hz	+1.5 to -1.5; 200 - 3.4 kHz, short loop, ZTc = 900, ZTr = 600 +2.0 to -2.0; 3.4 - 4.0 kHz, short loop, ZTc = 900, ZTr = 600 -0.5 to -1.5; 200 - 3.4 kHz, long loop, ZTc = 900, ZTr = 600 +1.0 to -1.5; 3.4 - 4.0 kHz, long loop, ZTc = 900, ZTr = 600
Delay Distortion (Voice Band) increase	≤ 200 μs; 600 - 3.2 kHz, short loop, ZTc = 900, ZTr = 600 ≤ 250 μs; 200 - 4.0 kHz, short loop, ZTc = 900, ZTr = 600 ≤ 200 μs; 600 - 3.2 kHz, long loop, ZTc = 900, ZTr = 600 ≤ 250 μs; 200 - 4.0 kHz, long loop, ZTc = 900, ZTr = 600
Return Loss (Voice Band)	> 8 dB ERL, > 5 dB SRL-L, > 5 dB SRL-H; short and long loop > 2 dB SRL-H; short and long loop, single frequency
Longitudinal Balance, Two Port Technique, PSTN to Line port (U-C) and Line port (U-C) to PSTN	> 58 dB; 200 - 1.0 kHz > straight line from 58 dB @ 1 kHz to 53 dB @ 3.0 kHz, Bias 25 mA DC, xDSL port shorted
Tip-to-Ring Capacitance PSTN port	20 ≤ C ≤ 115 nF; 20 - 30 Hz (Note: T1.413 Issue 2 requires ≤ 90 nF, plans are to increase this in Issue 3 to ≤ 115 nF)
Capacitance to Ground, PSTN port	≤ 1.0 nF; 20 - 30 Hz
ADSL Band Attenuation	> 65 dB; 30 - 300 kHz, ZTc = 900 > 55 dB; 300 - 1104 kHz, ZTc = 900
Input Impedance	≤ 0.25 dB; 30 - 1104 kHz, ZTc = 900

Environmental

Lightning Surge	GR-1089-CORE Level 1 and Level 2 surge
Power Cross	GR-1089-CORE First and Second Level AC Power Fault Immunity
Operating Temperature	-40 to +65°C (-40 to 149°F)
Relative Humidity	0 to 95%, non-condensing

Safety

UL-listed to U.S. and Canadian safety standards

Installation Practice

SRP-200-205

Product Specifications

Dimensions (H x W x D)	4.0 in x 8.0 in x 6.5 in (102 mm x 203 mm x 165 mm)
Weight	5.07 lb (2.30 kg)

Shipping Package Specifications

Quantity	1 unit per carton
Dimensions (H x W x D)	9.0 in x 12.25 in x 12.25 in (229 mm x 311 mm x 311 mm) per carton
Weight	6.94 lb (3.15 kg) per carton

