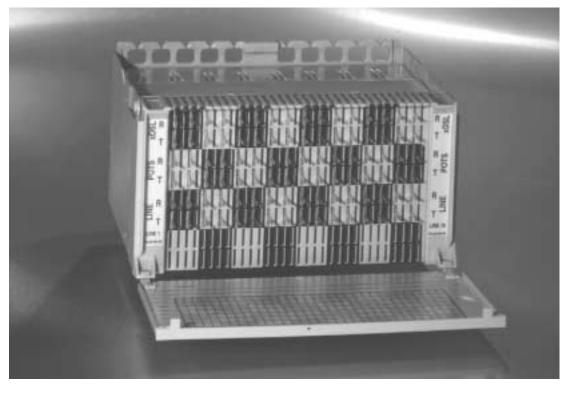
### xDSL POTS Splitter Main Distribution Frame-MDF



*Photo* DSL 59

#### Features / Benefits

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- Central office main distribution frame (MDF) 19-inch or 23-inch rack-mounting capability with bracket (not included), or wall-mount bracket (not included)
- ANSI T1.413 compliant
- 16-line capacity
- Single wire-wrap or punch-down termination for each port (LINE, VOICE, and DATA)
- Maintenance test signature is included as standard
- Other configuration options available upon request

#### Description

Corning Cable Systems' xDSL POTS Main Distribution Frame (MDF) is designed for use at the central office (CO) or the subscriber primise. xDSL represents Digital Subscriber Line, which provides high-bit-rate digital information over telephone subscriber lines. The term "POTS" means Plain Old Telephone Service. The POTS Splitter is a passive device, which allows both voice and data signals to travel over the telephone line. This device splits the combined signal to provide separate outputs for both phone and data in the form of female jacks. This product is also available for Customer Premise Equipment (CPE) requiring multi-dwelling or multi-tenant application. For the central office, this device is designed to mount on the distribution side of a main distribution frame. Available with wire-wrap or punchdown terminations which provide connections of twisted pairs to the outside plant line, the POTS switch equipment and the xDSL transmission unit (ATU-C).

The xDSL 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 xDSL transmission unit (CO only).

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## **ADSL Central Office Technical Specifications**

Electrical (Complies with ANSI T1.413 Issue 2 Annex E)		
0 to 100 mA		
0 to -60 Vdc		
103 Vrms superimposed on the DC Loop Voltage, 20 to 30 Hz		
≤ 25 ohms, PSTN tip-to-ring with Line port (U-C) shorted		
≤ 1.0 dB; short loop, ZTc = 900, ZTr = 600, 1004 Hz ≤ 0.75 dB; long loop, ZTc = 900, ZTr = 600, 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		
$\leq$ 200 µs; 600 - 3.2 kHz, short loop, ZTc = 900, ZTr = 600 $\leq$ 250 µs; 200 - 4.0 kHz, short loop, ZTc = 900, ZTr = 600 $\leq$ 200 µs; 600 - 3.2 kHz, long loop, ZTc = 900, ZTr = 600 $\leq$ 250 µs; 200 - 4.0 kHz, long loop, ZTc = 900, ZTr = 600		
> 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		
> 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		
$20 \le C \le 115 \text{ nF}$ ; $20 - 30 \text{ Hz}$ (Note: T1.413 Issue 2 requires $\le 90 \text{ nF}$ , plans are to increase this in Issue 3 to $\le 115 \text{ nF}$ )		
≤ 1.0 nF; 20 - 30 Hz		
> 65 dB; 30 - 300 kHz, ZTc = 900 > 55 dB; 300 - 1104 kHz, ZTc = 900		
≤ 0.25 dB; 30 - 1104 kHz, ZTc = 900		
GR-1089-CORE Level 1 and Level 2 surge		
GR-1089-CORE First and Second Level AC Power Fault Immunity		
-40 to +65°C (-40 to 149°F)		
0 to 95%, non-condensing		



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### **ADSL CPE Technical Specifications**

ex E)
0 to 100 mA
0 to -60 Vdc
103 Vrms superimposed on the DC Loop Voltage, 20 to 30 Hz
≤ 25 ohms, POTS tip-to-ring with Line port (U-R) shorted
≤ 1.0 dB; short loop, ZTc = 900, ZTr = 600, 1004 Hz ≤ 0.75 dB; long loop, ZTc = 900, ZTr = 600, 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
≤ 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
> 6 dB ERL, > 5 dB SRL-L, > 3 dB SRL-H; short and long loop > 2 dB SRL-H; short and long loop, single frequency
> 58 dB; 200 - 1.0 kHz > straight line from 58 dB @ 1 kHz to 53 dB @ 3.0 kHz, Bias 25 mA DC
$20 \le C \le 115 \text{ nF}$ ; $20 - 30 \text{ Hz}$ (Note: T1.413 Issue 2 requires $\le 90 \text{ nF}$ , plans are to increase this in Issue 3 to $\le 115 \text{ nF}$ )
≤ 1.0 nF; 20 - 30 Hz
> 65 dB; 30 - 300 kHz, ZTr = 600 > 55 dB; 300 - 1104 kHz, ZTr = 600
$\leq$ 0.25 dB; 30 - 1104 kHz, ZTr = 600
GR-1089-CORE Level 1 and Level 2 surge
GR-1089-CORE First and Second Level AC Power Fault Immunity
-40 to +65°C (-40 to 149°F)
0 to 95%, non-condensing

### **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)
Weight	6.94 lb (3.15 kg)

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