

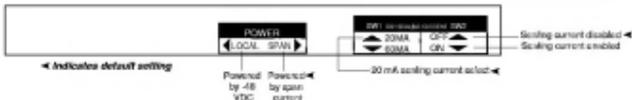
### PRACTICES

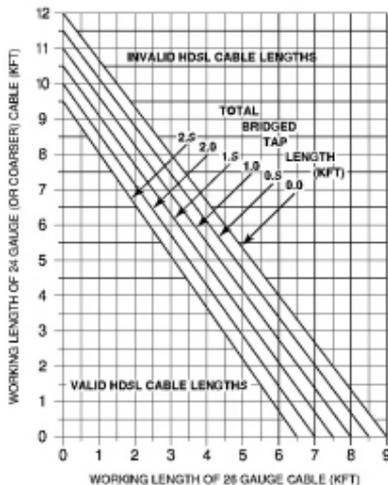
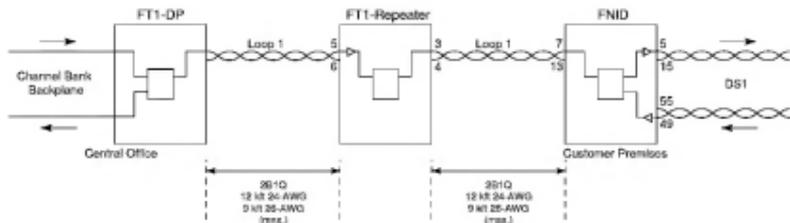
Three eight-position switch packs (SW1, 2, 4) and two four-position switch packs (SW3, 5) are used to configure FT1 DP mode of operation as listed in the table below. Refer to ADTRAN Installation/Maintenance practices for more information.

**Option Settings**  
(arrows indicate default settings)

Switch	Function	Description
SW1-1 ..... Channel Select Closed ..... Alternate ▶ Open ..... Contiguous		Selects between alternating and contiguous DS0 channels.
SW1-2 ..... Auto Code Detect Closed ..... Auto ▶ Open ..... Manual		When this switch is closed, the unit automatically detects the line code as B8ZS or AMI.
SW1-3 ..... Manual Code Select Closed ..... AMI ▶ Open ..... B8ZS		When SW1-2 is open, SW1-3 open selects B8ZS line code, while SW1-3 closed selects AMI.
SW1-4 ..... Auto Frame Detect ▶ Closed ..... Auto Open ..... Manual		When this switch is closed, Auto Frame Mode detection is enabled and the unit selects between SF and ESF modes automatically. When open, SW1-5 manually selects the framing mode.
SW1-5 ..... Framing Closed ..... Superframe Format (SF) ▶ Open ..... Extended Superframe Format (ESF)		When SW1-4 is open, SW1-5 closed selects SF. SW1-5 open selects ESF.
SW1-6 ..... Latching Loopback Closed ..... Enabled ▶ Open ..... Disabled		This switch is used to enable or disable latching loopbacks.
SW1-7 ..... Loopback Timeout Closed ..... 20 Minutes ▶ Open ..... None		SW1-7 is used to enable or disable automatic loopback timeout.
SW1-8 ..... Loopback Keep Alive Closed ..... AIS ▶ Open ..... All 1s, framed		Sets the data pattern sent to the customer upon FNID network loopback.
SW2-8, 2-7 ..... DS1 Transmit Level ▶ Open, Open ..... 0 dB Open, Closed... -7.5 dB Closed, Open... -15 dB Closed, Closed... -22.5 dB		The DS1 signal level delivered to the customer through the FNID may be selected as one of four values: 0, -7.5, -15, or -22.5 dB.
SW3-1 ..... Idle Code Detect Closed ..... Auto ▶ Open ..... Manual		When SW3-1 is closed, auto idle code detection is enabled and the unit selects between 7F (Hex) and FF (Hex).
SW 3-2 ..... Idle Code ▶ Closed ..... FF Open ..... 7F		When SW3-1 is open and SW3-2 is closed, selects FF (Hex). When SW3-2 is open, selects 7F (Hex).
SW4-1-SW4-8 ..... Channels 1-8 A/B Signaling Closed ..... Enabled ▶ Open ..... Disabled		This switch enables or disables A/B signaling for Channel 1-8 of the selected FT1 channels.
SW5-1-SW5-5 ..... Channels 9-12 A/B Signaling Closed ..... Enabled ▶ Open ..... Disabled		This switch enables or disables A/B signaling for Channels 9-12 of the selected FT1 channels.

FNID  
SW1, SW2  
20 mA, 60 mA  
OR, Or





**HDLSL Loss Values**  
(200 kHz cable loss in dB/kft at 135Ω)

Cable Gauge	Cable Type	Temperature:		
		68°	90°	120°
26	PIC	3.902	4.051	4.253
26	Pulp	4.030	4.179	4.381
24	PIC	2.863	2.957	3.083
24	Pulp	3.159	3.257	3.391
22	PIC	2.198	2.255	2.333
22	Pulp	2.483	2.45	2.629
19	PIC	1.551	1.587	1.634
19	Pulp	1.817	1.856	1.909

#### Loop Insertion Loss Data

Frequency (Hz)	Maximum Loss (dB)
3,000	12.0
10,000	15.0
50,000	25.5
100,000	30.0
150,000	32.75
200,000	35.25



These approximations are to be used as guidelines only and may vary slightly on different loops. Adhering to these guidelines should produce performance in excess of  $10^{-7}$  BER.

#### ADTRAN Customer Service:

ADTRAN Telco Technical Support .....	(800) 726-8663
Standard support hours .....	Monday-Friday 7 a.m. - 7 p.m. CST
Emergency support .....	7 days/week, 24 hours/day
Sales .....	(800) 827-0807
RMA (repair service) .....	(205) 963-8722

#### Repair and Return Address:

ADTRAN, Inc.  
Customer Service Department  
901 Explorer Boulevard  
Huntsville, Alabama 35806-2807