

DSL H70 Outdoor Ancillary Splitter

CORNING

Features and Benefits

Environmentally hardened outdoor housing for wall- or conduit-mounting

Withstands extreme environmental conditions

Wiring terminals for each splitter port (network, voice, data)

Allows versatility in wiring to station protectors or NIDs

Universal ADSL/VDSL2 circuit

Future-ready network architecture for data and video deployments

Standards

Approvals and Listings

ATIS-0600016.2008 compliant

C-UL-US Listed

Telcordia GR-1089-CORE compliant lightning and AC power fault protection

The DSL H70 Outdoor Ancillary Device is an environmentally hardened outdoor housing designed for use at the subscriber premises. The H70 Series combines rugged outside plant technology with superior DSL performance.

The H70 Series is a stand-alone splitter that is self-contained within its own weatherproof enclosure. The housing design permits mounting the unit on a wall or conduit as necessary. Wiring terminals for each of the three splitter ports (network, voice, data) make the H70 Series versatile for wiring to any station protector or network interface device (NID).

The DSL splitter includes the Corning universal circuit that meets ADSL/2/2+ and VDSL2 requirements. Optional ring trip enhancements are available for optimizing DSL performance in video ATIS-0600016.2008 compliant deployments.



DSL H70 Outdoor Ancillary Device (closed)
| Photo PIM0133



DSL H70 Outdoor Ancillary Device (open)
| Photo PIM0134

DSL H70 Outdoor Ancillary Splitter

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Specifications

Mechanical Characteristics

	Dimensions (HxWxD)	Weight
H70 DSL Splitter	6.6 cm x 8.9 cm x 12.2 cm (2.6 in x 3.5 in x 4.8 in)	0.18 kg (0.4 lb)

Shipping Information

	Dimensions (HxWxD)	Shipping Weight	Units per Delivery
H70 DSL Splitter	39.6 cm x 24.9 cm x 21.6 cm (15.6 in x 9.8 in x 8.5 in)	4.8 kg (10.5 lb)	25/1

Electrical Characteristics

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 at 20 to 30 Hz
DC Resistance	≤ 25 Ohms POTS tip-to-ring with line port (U-R) shorted
Insertion Loss — Short Loop	≤ 1.0 dB, ZTc = 900, ZTr = 600, 1004 Hz
Insertion Loss — Long Loop	≤, 0.75 dB, ZTc = 900, ZTr = 600, 1004 Hz
Attenuation Distortion (Voiceband) Increase Relative to Insertion Loss at 1004 Hz, 0.2 to 3.4 kHz, short loop	1.5 dB to -1.5 dB, ZTc = 900, ZTr = 600
Attenuation Distortion (Voiceband) Increase Relative to Insertion Loss at 1004 Hz, 3.4 to 4.0 kHz, short loop	2.0 dB to -2.0 dB, ZTc = 900, ZTr = 600
Attenuation Distortion (Voiceband) Increase Relative to Insertion Loss at 1004 Hz, long loop, 0.2 to 3.4 kHz	-0.5 dB to -1.5 dB, ZTc = 900, ZTr = 600
Attenuation Distortion (Voiceband) Increase Relative to Insertion Loss at 1004 Hz, long loop, 3.4 to 4.0 kHz	1.0 dB to -1.5 dB, ZTc = 900, ZTr = 600
Delay Distortion (Voiceband) Increase, short loop, 0.6 to 3.2 kHz	≤ 200 , ZTc = 900, ZTr = 600
Delay Distortion (Voiceband) Increase, short loop, 0.2 to 4.0 kHz	≤, 250 μs, ZTc = 900, ZTr = 600

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Electrical Characteristics

Delay Distortion (Voiceband) Increase, long loop, 0.6 to 3.2 kHz	$\leq 200 \mu\text{s}$, $Z_{Tc} = 900$, $Z_{Tr} = 600$
Delay Distortion (Voiceband) Increase, long loop, 0.2 to 4.0 kHz	$\leq 250 \mu\text{s}$, $Z_{Tc} = 900$, $Z_{Tr} = 600$
Return Loss (Voiceband)	$> 6 \text{ dB ERL}$, $> 5 \text{ dB SRL-L}$, $> 3 \text{ dB SRL-H}$; short and long loop $> 2 \text{ dB SRL-H}$; short and long loop, single frequency
Longitudinal Balance, Two-Port Technique POTS to Line Port (U-R) and Line Port	$> 58 \text{ dB}$ 0.2 to 1.0 kHz ; $>$ straight line from 58 dB @ 1 kHz to 53 dB @ 3.0 kHz; BIAS 25 MA DC
Tip-to-Ring Capacitance, POTS Port	$20 \leq C \leq 115 \text{ nF}$ at 20 to 30 Hz
Capacitance to Ground, POTS Port	$\leq 1 \text{ nF}$ at 20 to 30 Hz
DSL Band Attenuation 1	$> 65 \text{ dB}$ at 32 to 17000 kHz, $Z_{Tr} = 600$
DSL Band Attenuation 2	$> 55 \text{ dB}$ at 17000 to 30000 kHz, $Z_{Tr} = 600$
Input Impedance	$\leq 0.25 \text{ dB}$ at 32 to 17000 kHz, $Z_{Tr} = 600$
Input Impedance	$\leq 0.5 \text{ dB}$ at 17000 to 30000 kHz, $Z_{Tr} = 600$

Environmental

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

Ordering Information

Part Number	Description	Units per Delivery
SPS-H70-SR1	ADSL/VDSL2 POTS Splitter Outdoor Ancillary Device	25/1

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