

AD-01W-LP

Micro Angle Driver[®] VDSL2 Compliant Sealed Surge Arrester

DSL-Compliant For Elevated
DC Biasing Up To 150 Volts

Three-Electrode Gas
Discharge Tube Protection

Delivers Superior
Performance

Gel-Sealed
IDC Terminations

Highly Visible
Wire Terminations

Fully Encapsulated
Assembly

Listed to UL 497



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Tii's Micro Angle Driver[®] is specifically designed to protect tomorrow's high-speed digital networks, such as ADSL2+/VDSL2 technology against damage caused by electrical surges.

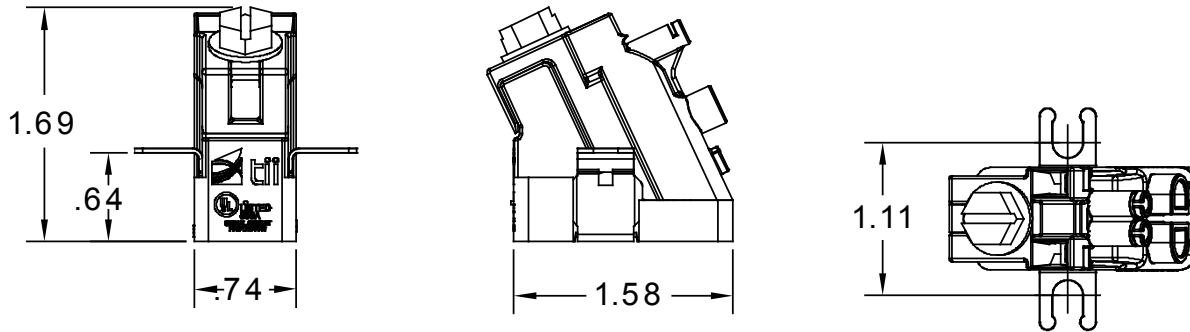
KEY PRODUCT BENEFITS

- ▶ Optimal performance for IPTV video over DSL due to low line to ground capacitance, providing significantly better DSL Insertion Loss than most competitive products
- ▶ Micro Angle Driver[®] consists of a three-electrode gas tube surge arrester, failshort device and Gel-Sealed IDC (Insulation Displacement Connection) type connectors for terminating all wires in one completely self-contained unit
- ▶ IDC connections require no stripping of the wire insulation for terminating
- ▶ Module has two ports for small-gauge (22-26 AWG) wire terminations and two ports designed to accept large-gauge (18-19 AWG) or small-gauge (22-24 AWG) wire for tip/ring connections, all of which are environmentally sealed
- ▶ May be employed in a variety of single and multiple pair network interface and station protector housings
- ▶ Can be used to retrofit/service upgrades of existing assemblies already installed in the field
- ▶ Unit is supplied with a unique, universal ground tab which may be snapped off to allow for multiple mounting arrangements

INDUSTRY STANDARDS

- ▶ Telcordia third party tested
- ▶ Micro Angle Driver[®] meets the requirements of Telcordia GR-1361-CORE
- ▶ This unit complies with the 'no back-up device' section of Telcordia GR-1361 CORE and meets the temperature aging and cycling performed at a modified (increased severity) 150Vdc bias
- ▶ Tii Micro Angle Driver[®] meets breakdown and surge life performance requirements of PE-80; RUS specifications for gas tube surge arresters
- ▶ Due to its low capacitance, the Tii micro Angle Driver[®] exceeds the transmission requirements of Telcordia GR-974-CORE for high-speed digital networks; making it an idea protector for Digital Subscriber Line (DSL) applications
- ▶ Meets the conditional requirements of Section 5, "Environmental Requirements, Severe Climatic Conditions" and Section 6.2 "Environmental, Severe Climatic and Flooded Conditions" of Telcordia GR-049-CORE
- ▶ Meets Sealing Requirements of Telcordia TR-NWT-000975
- ▶ Meets Generic Requirements For IDC Cross-Connect & Terminal Blocks of Telcordia TR-NWT-001195
- ▶ Listed to UL 497

AD-01W-LP



Dimensions are in Inches

SPECIFICATIONS

DC Breakdown Voltage (L-G) @ 2000 V/sec	300-500Vdc
Impulse Reset: 135Vdc @200mA	<150 mS
Maximum Single Impulse Discharge Current, 8/20 waveform:	20kA 10kA/Side Simultaneously
Impulse Life:	
10Amp, 10/1000µsec waveform:	1500 Surges Minimum
100Amp, 10/1000µsec waveform:	100 Surges Minimum
300Amp, 10/1000µsec waveform:	50 Surges Minimum
500Amp, 10/1000µsec waveform:	400 Surges Minimum (PE-80)
AC Discharge Current	
10Amp, 1 Second:	20 Operations Minimum
1Amp, 1 Second:	60 Operations Minimum
Capacitance (L-G)	10 pF Typical
Capacitance Imbalance (L-G)	<1 pF Typical
Aging, Temperature/Humidity Cycling with Surge	150 Volts DC Bias
Insertion Loss 0.2 – 30MHz	<0.1dB
Return Loss @ 30MHz	>15dB
Impulse Breakdown voltage (L-G) @ 100V/µsec. 500V Typical, @ 1KV/µsec.	750V Maximum 750V Typical
Insulation Resistance @50Vdc, 10MA:	1000 Megohms Minimum

ORDERING INFORMATION

Model No.	Description
AD-01W-LP	Gel-Sealed Micro Angle Driver® Surge Arrester with Snap-Off Ground Tabs Both Sides