

DLPS-15D Series

Drop Line Surge Suppressors (Solid State)



Developed and patented by Cable Innovations the DLPS-15D series protects drop line electronics from damaging faults due to surges, transients, spikes and lightning. The DLPS-15D series using solid state Sidactor technology, protects in both directions from the house and from the cable drop line. With a response time of one nanosecond, the DLPS-15D series will virtually eliminate damage to drop line electronics caused by overvoltages.

If you are currently relying on "6 KV" protection, gas discharge tubes, or just a ground block, you are taking unnecessary risks with your equipment and with your subscriber's electronics. The DLPS-15D series offers longer life, greater current handling capacity, and faster response than any other type of protection.

Currently Available Models

MODEL #	DLPS-15D	DLPS-15DP*	DLPS-15DT
Application	Drop Protection	Drop Protection	Drops using RG-11 Cable
Surge Protection	1000 Amps (2 x 10 μ s)	1000 Amps (2 x 10 μ s)	3000 Amps (2 x 10 μ s)
Power Passing	Up to 1 amp	Up to 1 amp	Up to 1 amp
Switching Voltage	135V Peak Min.165V Peak Max.	135V Peak Min.165V Peak	135V Peak Min.165V Peak
Response Time	Less than 1 nanosecond	Less than 1 nanosecond	Less than 1 nanosecond

*The DLPS-15DP utilizes the same circuitry as the DLPS-15D, but with a different orientation of F-ports

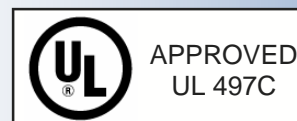
FEATURES

- **Sidactor® Device** The DLPS-15D series incorporates the newest solid state Sidactor technology which responds faster than any other type of drop line surge suppression.
- **Longer Life** THE DLPS-15D series' performance will not degrade during repeated overvoltage conditions. A gas tube device's performance rating is degraded each time an overvoltage occurs. You can count on the DLPS series on the 1st surge or the 5000th surge.**
- **Overvoltages Taken off Center Conductor** Patented design takes overvoltages directly to ground from the center conductor, before damage can occur to drop line electronics
- **High Current Handling** DLPS-15D/DP Handles 1000 Amps. DLPS-15DT handles 3000 amps
- **Temperature Range** -40 to +140 °F -40 to +60 °C
- **Surge Testing** ANSI C-62.41 (IEEE 587)
- **ISO 9001** - The DLPS series is manufactured in an ISO 9001 facility
- **Two (2) Year Warranty**
- **Meets NEC 830**
- **Compatible with RG-6 and RG-59** RG-7 and RG-11 require connectors with center conductor seizure pins.

** As long as surge rating is not exceeded

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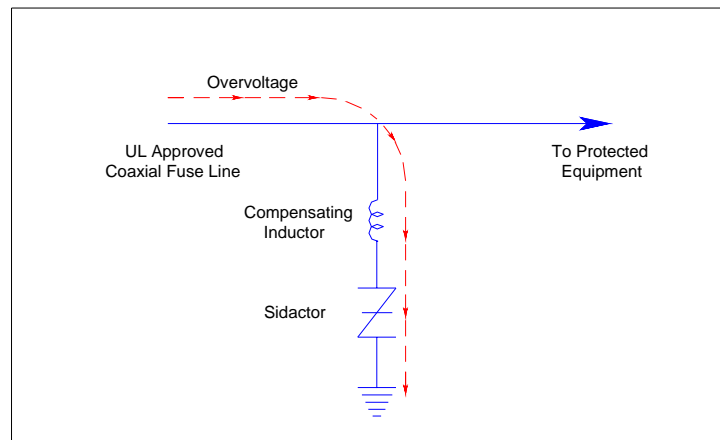
Additional specifications on reverse side
Specifications subject to change without notice.

PERFORMANCE					
Frequency	5-15 mhz	15-250 mhz	250-550 mhz	550-900 mhz	900-1000 mhz
Insertion loss	< 1.0dB	< 0.5dB	< 0.5dB	< 0.5dB	< 0.75dB
Return loss	> 18dB	> 20dB	> 20dB	> 20dB	> 19dB
EMI shielding	> 120dB	> 120dB	> 120dB	> 120dB	> 120dB

The DLPS-15D series protects drop line electronics by utilizing Sidactor technology. A Sidactor is a solid state crowbar device designed to protect equipment during hazardous transient conditions. In the standby mode, the Sidactor appears transparent to the circuits it protects. Upon application of a breakover voltage exceeding 135V, the Sidactor will crowbar and simulate a short circuit condition which will divert the overvoltage to ground. Once clear of the high transient condition, the Sidactor will reset and return to its normal high off-state impedance.

Figure 1 demonstrates the course a high transient will follow once it encounters a DLPS-15D series surge suppressor.

FIGURE 1



The path of the over voltage shown in Figure 1 will be diverted to ground in less than one nanosecond. Most surge protectors have very high voltage breakover levels which allow destructive transients through into the equipment. The DLPS-15D series breaks over at 135V which will help stabilize any surge and create long term reliability for your equipment.