



# DIU-15D-7

**2 Port Digital Interface Unit  
DC-9 On Data Port  
High Pass Filter on TV Port**

- Simplify drop installs
- Reduce Inventory
- Improve drop specs

The DIU-15D-7 includes a High pass filter on the TV port and a DC-9 on the data port for cable modem service. Each port protects the subscriber's and system's equipment connected to it by utilizing Cable Innovations patented surge suppression design and 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, but upon application of a breakover voltage exceeding 135V, the Sidactor will crowbar and simulate a short circuit condition, which will divert the over voltage to ground, without effecting the RF signal. Once clear of the high transient condition, the Sidactor will reset and return to its normal high off-state impedance.

The DIU-15D-7's combination of efficiency, simplicity of installation, and superior surge protection makes it the clear choice when installing cable modem service.

SPECIFICATIONS							
	Guaranteed Minimum Performance						
FREQUENCY (MHZ)	5-40	54-100	101-330	331-550	551-750	751-870	871-1000
Insertion Loss (IN-TV1)	40	2.8	2.1	2.1	2.1	2.5	2.8
Insertion Loss (IN-DATA)	10.5	9.7	9.6	9.4	9.4	9.7	10.
Isolation (DATA)(TV1)	60	25	25	25	25	25	22
Return Loss (IN) (-DB MIN)	-	18	19	20	20	20	19
Return Loss (TV1) (-DB MIN)	-	19	22	20	20	20	20
Return Loss (DATA) (-DB MIN)	25	25	25	25	25	25	25
EMI/RFI Isolation (dB)	130	130	130	130	130	130	130

SPECIFICATIONS ( Surge Suppression )	
DC Breakover Voltage	135V Min.165V Max.
Response Time	Less than 1 nanosecond
Current Suppression	1000 Amps (2 x 10µs)

### PRODUCT FEATURES

- SCTE compliant "F" ports with 360 degree contact
- SCTE approved grounding screw and ground wire connection
- Dual adjustable mounting tabs for easy installation
- Voltage Blocking Capacitors on all ports to prevent ferrite core saturation
- Soldered brass back plate to prevent rusting and provide superior EMI
- Operating temperature (Ambient) -40 to +140 Degrees Fahrenheit 40 to +60 Degrees Celsius (Centigrade)
- Chromate zinc housing for superior corrosion resistance
- Patented surge suppression, other patents pending.
- SMD Components for more precise specs and superior digital performance
- Meets NEC 830-30 Two (2) Year Warranty