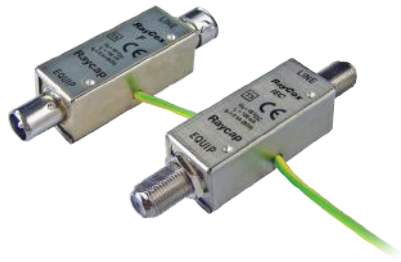


Coaxial SPD for TV & Cable TV
RayCox IEC 48, F 48
C1 • C2 • C3

ZV1, ZV1-F



IEC/EN Category: C1/C2/C3
 Protection: Impedance Matched
 Voltages: 148 VDC
 Maximum Operating Voltage: 60 VDC
 Frequency Range: 40–860 MHz
 Surge Discharge Ratings: I_n : 5 kA
 Series Load Current: 100 mA
 Termination: IEC TV or F Connectors
 Housing: In-line Installation, Shielded Enclosure
 Compliance: IEC/EN 61643-21

The aerial adapters RayCox IEC 48 and F 48 are intended for the protection of TV sets, aerial amplifiers and cable television CATV. It should be connected to the aerial input of the TV set, with the coaxial cable from the aerial plugged into the other side. It should be grounded to the protective earth conductor of the housing installation.

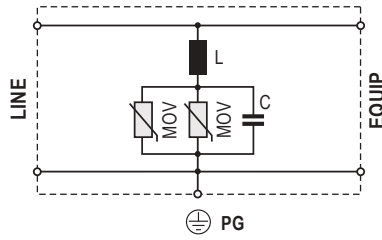
In the case of an individual aerial system with an individual aerial amplifier it is recommended to install an additional aerial adapter which should be connected in the same way as for the TV set. The aerial adapter is not suitable for outdoor installation or installation in very damp places.

Technical Data

	IEC 48	F 48
Electrical		
Nominal Operating Voltage (DC)	U_n	48V
Maximum Continuous Operating Voltage (DC)	U_c	60V
Rated Operating Current at 25°C	I_L	100mA
C2 Nominal Discharge Current (8/20 μs)	I_n	5 kA
Residual Voltage at 5 kA (8/20 μs)	U_{res}	< 500V
Rated Spark Overvoltage (Wire-Shield)		90V – 110V
Response Time Overvoltage Protection (Wire-Shield)	t_A	< 25 ns
Insulation Resistance of Protection (Wire-Shield)	R_{iso}	≥ 6 MΩ
Serial Resistance per Path	R	< 0.1 Ω
Frequency Range	f_G	40–860 MHz
Mechanical		
Temperature Range	-40 °C to +80 °C	
Connection	TV Connector	F Connector
Degree of Protection IEC/EN 60529	IP 20	
Housing Material	Metal	
Order Information		
Order Code	IEC 48	F 48
XXX 48	125 093	125 094

RayCox IEC 48, F 48

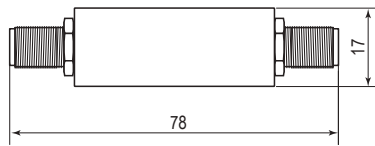
Internal Configuration



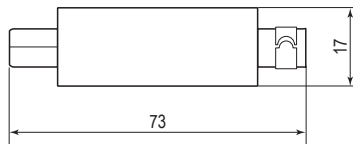
Legend

- C Capacitor
- L Inductor
- MOV Metal Oxide Varistor
- PG Protective Grounding

Dimensions & Packaging



IEC 48



F 48

	IEC 48	F 48
Dimensions		
Weight per Unit		32 g
Packaging Dimensions (Single Unit)		90 x 150