

Compliant?



ANSI/SCTE 153 2008 Drop Passives



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Table 1: Allowable Insertion Loss

TABLE 1 DEVICE	INSERTION LOSS FROM INPUT PORT TO:	LOSS (dB)/FREQUENCY (MHz)		
		5-400	400-600	600-1,002
2-WAY SPLITTER	ANY OUTPUT	≤ 3.6	≤ 4.0	≤ 4.4
3-WAY BALANCED	ANY OUTPUT	≤ 6.1	≤ 6.5	≤ 7.0
3-WAY UNBALANCED	HI OUTPUT	≤ 3.6	≤ 4.0	≤ 4.4
	LOW OUTPUTS	≤ 7.2	≤ 7.8	≤ 8.8
4-WAY SPLITTER	ANY OUTPUT	≤ 7.2	≤ 7.8	≤ 8.8
8-WAY SPLITTER	ANY OUTPUT	≤ 11.0	≤ 12.0	≤ 13.2



Specifications

Insertion Loss (dB)	Units	PPC-GHS-2E	PPC-GHS-3E	PPC-GHS-4E	PPC-GHS-8E
5-400	MHz	≤ 3.6	$\leq 3.6/\leq 7.0$	≤ 7.0	≤ 10.0
400-600	MHz	≤ 3.9	$\leq 3.7/\leq 7.2$	≤ 7.3	≤ 11.0
600-1,002	MHz	≤ 4.3	$\leq 4.2/\leq 8.0$	≤ 8.0	≤ 11.8

TABLE 2	MINIMUM OUTPUT PORT TO OUTPUT PORT ISOLATION			
DEVICE	5-10MHz	10-65MHz	65-870MHz	870-1,002MHz
SPLITTERS/COUPLERS (ALL)	≥22dB	≥30dB	≥26dB	≥23dB

Table 2: Minimum Port to Port Isolation





Isolation (dB)		
5-10	MHz	≥24
10-65	MHz	≥30
65-870	MHz	≥29
870-1,002	MHz	≥26

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Return Loss. The return loss, as measured at any RF port, with all other ports terminated, shall be a minimum of 18 dB. All measurements shall be made in accordance with the procedures outlined in ANSI/SCTE 144 2007.



Return Loss (dB)

5-1,002	MHz	≥ 22
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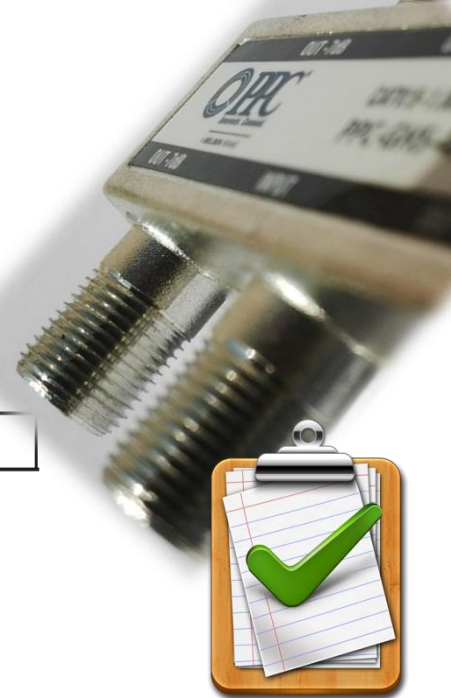
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Shielding Effectiveness. The shielding effectiveness of components when measured in accordance with ANSI/SCTE 48-2 2008 shall be a minimum of 100dB.



RFI Isolation

RFI Isolation	dB	130
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Surge Withstand. The surge withstand of components when measured in accordance with ANSI/SCTE 81 2007 shall be at minimum compliant with IEEE C62.41-1991 Category A3, Ring Wave 6KV at the F Ports. Power Inserter and associated power supply shall be connected together and subjected to IEEE C62.41-1991 Category B3, Combination Wave 6KV applied to the Mains plug.



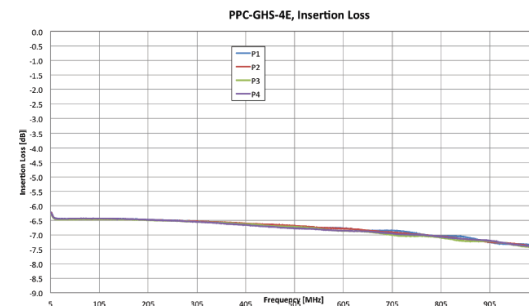
ANSI/SCTE compliant F-ports

360° contact seizure mechanism

Bonding/grounding point allows for 14AWG to 6AWG wire

Surge Protection

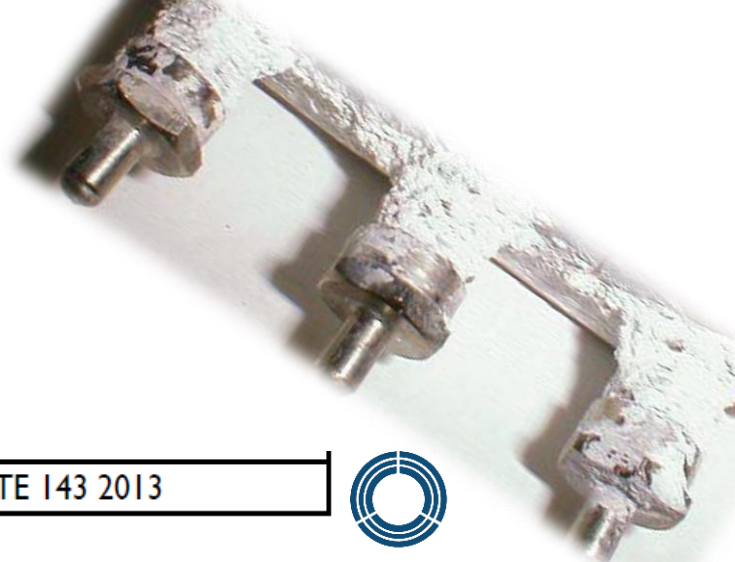
All F-ports: IEEE C62.41-1991 Category A3,
Ring Wave 6kv 200 amperes per ANSI/SCTE 81 2012



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Salt Spray. The device must meet all performance requirement as outlined in section 3, after a minimum of 1000 hours of salt spray when tested in accordance with ANSI/SCTE 143 2007. The device must exhibit corrosion penetration of less than 50% metal thickness, and show no evidence of internal damage. F Ports shall be appropriately sealed during testing to prevent Salt Water compound entry via the ports.

Corrosion Resistance	-	1,000 hour salt spray per SCTE 143 2013
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Temperature. The device must meet all performance requirement during and after temperature cycles ranging from -40°F (-40°C) to +140°F (+60°C) inclusive (Outdoor Rated Devices), and +32°F (0°C) to +140°F (+60°C) inclusive (Indoor Rated Devices) with 95% relative humidity at both types of devices at the high temperature limit.

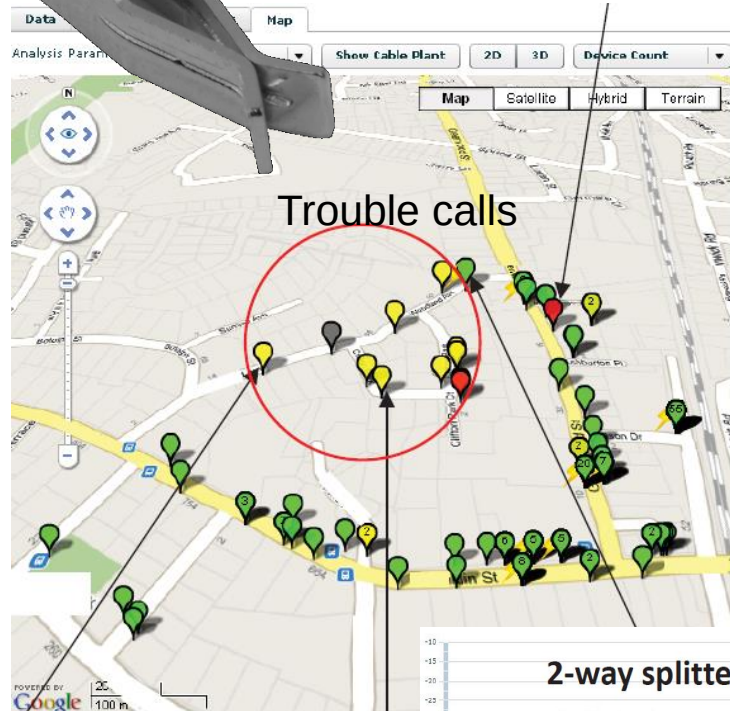
Environmental Specifications

Operating Temperature	°C	-40 to +60
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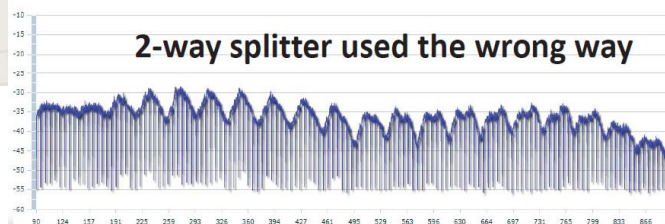


Contact is Stability

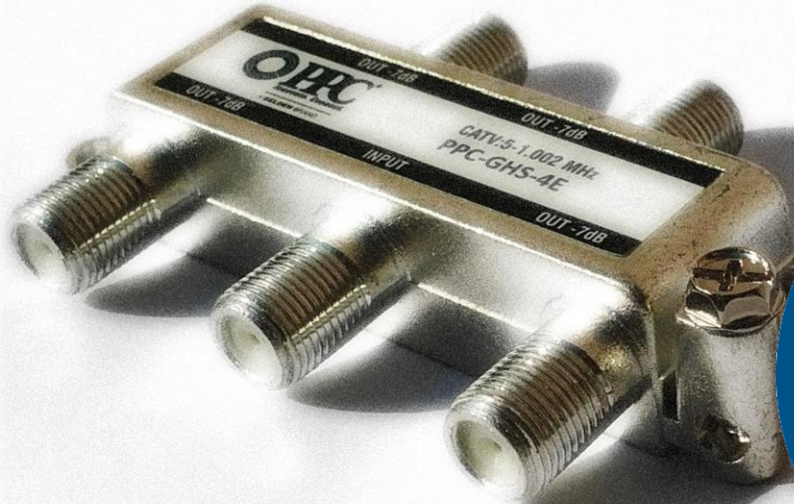
360 degree contact seizure mechanism



2-way splitter used the wrong way



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