

# PCT HDCA-15xxB

## SPLITTER



A directional coupler is an unequal power divider and it splits the network's trunk and feeder lines. The 1.2 GHz frequency rating coupled with outstanding insertion loss and hum modulation characteristics, ensure their reliable performance in the most demanding applications and DOCSIS 3.1 compatibility.

- 1.2 GHz bandwidth with minimal insertion loss
- 100 dB RFI shielding ensures against ingress / egress interference
- Stainless steel hardware for corrosion resistance
- Aluminum alloy housing with weather resistant powder coating
- Weather seal gasket ensures water tight protection, tested at 15 psi

## SPECIFICATIONS

GENERAL SPECIFICATIONS		
Nominal Impedance	75 Ohms	
Power Passing	15 A, 90 VAC (In-Out)	
Waterproof Condition	15 psi	
Surge Withstand	All ports conforms to ANSI / SCTE 81 2012, IEEE C62.41-1991 Cat. B3 (6000 V, 3000 A, 1.2 / 50 $\mu$ s to 8/20 $\mu$ s Combination Wave)	
Hum Modulation	-60 dB @ 10 A / 65 VAC	
Connector Thread (all ports)	5 / 8-24 UNEF-2B female with red plastic cap	
RFI Shielding	-100 dB	
Temperature	+20 °C, +60 °C and -40 °C; allow 10% change in performance at +60 °C and -40 °C	
Regulatory Compliance	CE, RoHS	
INSERTION LOSS	MAX (-DB)	
	158B	1512B
5 - 10 MHz	1.6 / 1.8	1.0 / 1.3
10 - 65 MHz	1.6 / 1.8	1.0 / 1.3
65 - 300 MHz	1.8 / 2.3	1.2 / 1.7
300 - 550 MHz	2.0 / 2.5	1.3 / 1.9
550 - 750 MHz	2.2 / 2.7	1.4 / 2.1
750 - 862 MHz	2.4 / 2.9	1.8 / 2.3
862 - 1000 MHz	2.7 / 3.1	2.0 / 2.5
1000 - 1200 MHz	3.7 / 4.0	2.8 / 3.2
TAP LOSS IN-TAP	MAX (-DB)	
5 - 10 MHz	9.5 / 10.0	13 / 13
10 - 65 MHz	9.5 / 10.0	13 / 13
65 - 300 MHz	9.5 / 10.0	13 / 13
300 - 550 MHz	9.5 / 10.0	13 / 13
550 - 750 MHz	9.5 / 10.0	13 / 13
750 - 862 MHz	9.5 / 10.0	13 / 13
862 - 1000 MHz	9.5 / 10.0	13 / 14
1000 - 1200 MHz	9.5 / 10.0	13 / 14

<b>ISOLATION OUT-TAP</b>	<b>MIN (-DB)</b>	
5 - 10 MHz	22 / 20	22 / 20
10 - 65 MHz	24 / 22	24 / 22
65 - 860 MHz	26 / 23	26 / 23
860 - 1200 MHz	22 / 20	22 / 20
<b>RETURN LOSS IN-OUT, TAP</b>	<b>MIN (-DB)</b>	
10 - 47 MHz	19 / 18	19 / 17
47 - 950 MHz	18 / 16	18 / 16
950 - 1200 MHz	18 / 14	18 / 14