1.8GHz Tap Plug-Ins

for conditioning at the Tap

A BELDEN BRAND

Features & Benefits

- Supports expanded bandwidth, 5 – 1800MHz frequency range
- Cable Simulators and Equalizers
- Gold plated pins resist corrosion
- 6mm spaced pins allow use in other manufacturers taps



7dB Cable Simulator

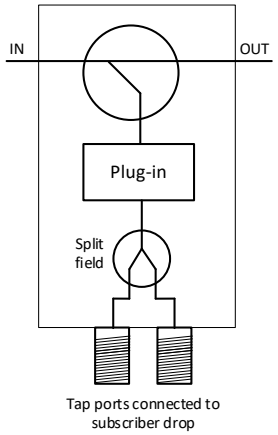
Overview

PPC's 1.8GHz line taps are "conditionable" in that plug-ins can be used in the tap to shape the forward and return spectrums being sent to/from the connected subscribers. The tap's In/Out through path is not affected.

These plug-ins get inserted just prior to a tap's splitter field, so all ports of a particular tap are affected equally.

Both Cable Simulators and Cable Equalizers are available in the following dB values:

- Cable Equalizers - 3, 5, 6, 8, 10, 11, 13, 15
- Cable Simulators – 4, 7, 10, 13



The typical goal is to provide a signal to each subscriber that is relatively "flat" or the same power level for all RF carriers in the network. These plug-ins can be used to compensate for excessive positive or negative tilt of the RF spectrum.

Cable Simulators create more loss at higher frequencies than lower frequencies to compensate for the positive tilt generated by the amplifier or node. Cable Simulators are typically used right after the amplifier/node at the beginning of a tap cascade. Cable Simulator "values" are based upon the approximate loss difference created by the plug-in between the lowest and highest downstream/forward frequencies in a "high-split" system.

Cable Equalizers create more loss at lower frequencies than higher frequencies to compensate for the negative tilt created by having too much cable loss. Equalizers are typically used at the end of a tap cascade. Cable Equalizer "values" are based upon the approximate loss difference created by the plug-in between 5MHz and 1800MHz.

These products may be protected by one or more patents. For further information, please visit: www.ppc-online.com/patents

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Technical Data

Cable Simulators

Specification	Frequency MHz	Model PP-LT6X8xxx / Value in dB			
		-CS4 4dB	-CS7 7dB	-CS10 10dB	-CS13 13dB
Insertion Loss – In/Out in dB: Tolerance +/-1dB	5	-0.1	-0.1	-0.1	-0.1
	10	-0.2	-0.3	-0.4	-0.6
	42	-0.5	-0.7	-1.1	-1.5
	54	-0.6	-0.9	-1.5	-2.0
	85	-0.9	-1.5	-2.3	-3.1
	108	-1.1	-1.9	-2.9	-3.6
	204	-1.7	-3.2	-4.5	-5.4
	258	-1.9	-3.9	-5.0	-6.0
	300	-2.1	-4.3	-5.3	-6.4
	396	-2.4	-4.8	-6.1	-7.6
	492	-2.8	-5.2	-6.8	-8.4
	684	-3.5	-6.0	-8.0	-10.2
	750	-3.7	-6.2	-8.4	-10.8
	834	-4.1	-6.7	-9.0	-11.9
	1002	-4.4	-7.1	-9.8	-12.9
	1218	-4.7	-7.9	-10.7	-14.4
	1410	-5.1	-8.6	-11.8	-15.9
	1602	-5.4	-9.2	-12.7	-17.1
	1800	-5.8	-10.1	-14.0	-18.6

Cable Equalizers

Specification	Frequency MHz	Model PP-LT6X8xxx / Value in dB							
		-EQ3 3dB	-EQ5 5dB	-EQ6 6dB	-EQ8 8dB	-EQ10 10dB	-EQ11 11dB	-EQ13 13dB	-EQ15 15dB
Insertion Loss – In/Out in dB: Tolerance +/-1dB	5	-3.8	-5.7	-6.9	-8.6	-10.5	-11.7	-13.7	-16.2
	10	-3.8	-5.7	-6.9	-8.6	-10.5	-11.7	-13.7	-16.2
	42	-3.8	-5.6	-6.7	-8.5	-10.4	-11.4	-13.3	-15.4
	54	-3.8	-5.5	-6.6	-8.3	-10.2	-11.2	-13.0	-15.0
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	300	-3.1	-4.5	-5.2	-6.5	-8.0	-8.8	-10.1	-11.5
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	492	-2.8	-4.0	-4.6	-5.7	-6.9	-7.6	-8.7	-9.8
	684	-2.5	-3.4	-3.9	-4.9	-5.8	-6.3	-7.4	-8.4
	750	-2.3	-3.2	-3.8	-4.6	-5.4	-5.9	-6.9	-7.8
	834	-2.1	-2.9	-3.3	-4.0	-4.8	-5.4	-6.1	-6.9
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	1410	-1.7	-2.0	-2.1	-2.3	-2.8	-2.8	-3.3	-3.7
	1602	-1.5	-1.8	-1.6	-1.8	-2.0	-2.1	-2.3	-2.4
	1800	-1.3	-1.3	-1.3	-1.3	-1.3	-1.4	-1.4	-1.5

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Ordering Information

Part Number	Description
PP-LT6X8-CS4	Tap Cond Plug-in 6mm 1.8GHz CS 4dB
PP-LT6X8-CS7	Tap Cond Plug-in 6mm 1.8GHz CS 7dB
PP-LT6X8-CS10	Tap Cond Plug-in 6mm 1.8GHz CS 10dB
PP-LT6X8-CS13	Tap Cond Plug-in 6mm 1.8GHz CS 13dB
PP-LT6X8-EQ3	Tap Cond Plug-in 6mm 1.8GHz EQ 3dB
PP-LT6X8-EQ5	Tap Cond Plug-in 6mm 1.8GHz EQ 5dB
PP-LT6X8-EQ6	Tap Cond Plug-in 6mm 1.8GHz EQ 6dB
PP-LT6X8-EQ8	Tap Cond Plug-in 6mm 1.8GHz EQ 8dB
PP-LT6X8-EQ10	Tap Cond Plug-in 6mm 1.8GHz EQ 10dB
PP-LT6X8-EQ11	Tap Cond Plug-in 6mm 1.8GHz EQ 11dB
PP-LT6X8-EQ13	Tap Cond Plug-in 6mm 1.8GHz EQ 13dB
PP-LT6X8-EQ15	Tap Cond Plug-in 6mm 1.8GHz EQ 15dB

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