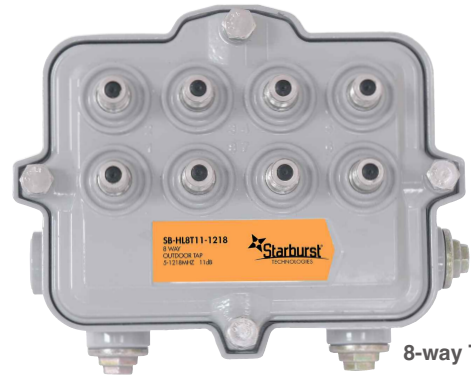


DOCSIS 3.1 Outdoor Taps

Taps (Hardline) • **SB-HL4T8-1218** & **SB-HL8T11-1218**
(4-way & 8-way)



4-way Tap



8-way Tap

SPECIFICATIONS:

Spec	Bandwidth	4 Way Tap							
		8dB	11dB	14dB	17dB	20dB	23dB	26dB	29dB
Tap Loss	5-860	±1.5dB							
	860-1218	±2.0dB							
Insertion Loss	5-42	-	3.6	2.2	1.6	1.3	1.3	1.3	1.3
	42-470	-	4.2	2.4	1.8	1.5	1.5	1.5	1.5
	470-862	-	4.4	3.0	2.2	1.7	1.7	1.7	1.7
	862-950	-	5.1	3.3	2.5	2.1	2.1	2.1	2.1
	950-1218	-	5.3	3.5	2.6	2.3	2.3	2.3	2.3
Tap-Tap Isolation	5-65	26	26	26	26	26	26	26	26
	65-750	24	24	24	24	24	24	24	24
	750-1218	22	22	22	22	22	22	22	22
Out-Tap Isolation	5-65	25	25	27	27	27	27	27	27
	65-750	25	25	27	27	27	27	27	27
	750-1218	22	22	22	22	22	22	22	22
Return Loss	5-1218	16							

Spec	Bandwidth	8 Way Tap						
		11dB	14dB	17dB	20dB	23dB	26dB	29dB
Tap Loss	5-860	±1.5dB						
	860-1218	±2.0dB						
Insertion Loss	5-42	-	3.8	2.3	1.4	1.3	1.4	1.4
	42-470	-	4.4	2.7	1.8	1.5	1.7	1.7
	470-862	-	5.0	3.2	2.4	1.7	2.1	2.1
	862-950	-	5.2	3.2	2.5	2.1	2.2	2.2
	950-1218	-	5.3	3.5	2.6	2.3	2.3	2.3
Tap-Tap Isolation	5-65	26	26	26	26	26	26	26
	65-750	24	24	24	24	24	24	24
	750-1218	22	22	22	22	22	22	22
Out-Tap Isolation	5-65	25	25	27	27	27	27	27
	65-750	25	25	27	27	27	27	27
	750-1218	22	22	22	22	22	22	22
Return Loss	5-1218	16						

FEATURES:

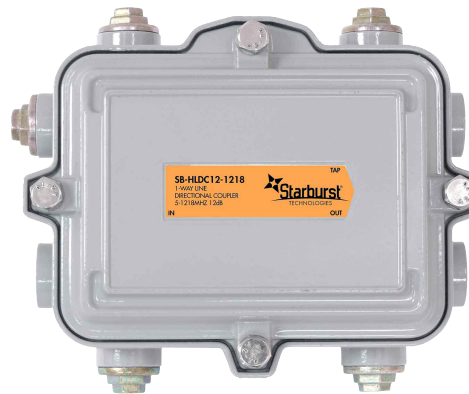
- Frequency Range: 5-1218MHz
- Power Capability: 12 Amp @ 60VAC
- HUM Modulation: >70dB (at 10 Amp)
- Impedance: 75 Ohm all ports
- Interwoven Gasket: 100dB RFI
- Aluminum alloy housing is finished with a baked acrylic paint
- Aerial or pedestal installation with 5/8 port entry
- Tongue and groove design and with a stainless steel mesh RF gasket to ensure 100dB RF integrity
- Operating Temperature: -40°C~+60°C
- All outputs are Power Passing
- All Ports are sealed. Waterproof test: 15 PSI
- Surge: IN/OUT and F-port 6kV surge withstand
- FR4 PCB for consistency of specifications in all bandwidth
- High quality ferrites, SMD resistors and capacitors



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DOCSIS 3.1 Directional Couplers

Directional Couplers (Hardline) • SB-HLDCx-1218
(x= 8, 12, or 16 dB)



SPECIFICATIONS:

INSERTION LOSS (dB)

Type	8dB		12dB		16dB	
	Typ. dB	Max. dB	Typ. dB	Max. dB	Typ. dB	Max. dB
5	1.7	1.9	0.9	1.1	0.9	1.1
10	1.6	1.8	0.8	1.1	0.8	1.0
40	1.6	1.7	0.8	1.1	0.8	1.0
85	1.6	1.7	0.9	1.1	0.8	1.0
100	1.6	1.7	0.9	1.1	0.8	1.0
200	1.6	1.8	1.0	1.1	0.9	1.1
550	1.6	2.0	0.9	1.3	0.9	1.2
750	1.8	2.2	1.1	1.5	1.0	1.4
870	1.9	2.4	1.2	1.7	1.0	1.5
1000	2.2	2.5	1.5	1.9	1.3	1.6
1218	2.5	2.7	2.1	2.2	1.6	1.8
1250	2.5	2.8	2.2	2.3	1.9	1.9

TAP LOSS (dB)

Type	8dB	12dB	16dB
	Typ. dB	Typ. dB	Typ. dB
5	8.5	12.3	16.0
10	8.5	12.3	16.0
40	8.5	12.3	16.0
85	8.5	12.3	16.0
100	8.5	12.3	16.0
200	8.5	12.3	16.0
550	8.5	12.3	16.0
750	8.5	12.3	16.0
870	8.5	12.3	16.0
1000	8.5	12.3	16.0
1218	8.5	12.3	16.0
1250	8.5	12.3	16.0

RETURN LOSS (dB/Min)

Type	8dB	12dB	16dB
Freq. MHz	Typ. dB	Typ. dB	Typ. dB
5 to 40	16	15	15
41 to 400	18	18	17
401 to 750	18	18	18
750 to 870	18	18	18
871 to 1000	17	17	17
1001 to 1250	16	16	16

ISOLATION (dB/Min)

Type	8dB	12dB	16dB
Freq. MHz	Typ. dB	Typ. dB	Typ. dB
5 to 40	16	20	20
41 to 400	20	23	24
401 to 750	20	23	24
750 to 870	20	23	24
871 to 1000	20	20	22
1001 to 1250	18	20	22

FEATURES:

- 6 kV surge protection
- 15A current carrying capability of splitters and directional couplers and 20A input rating of power inserters allows network powering of cable telephony services
- AC bypass coil provides superior hum modulation performance
- Housing design permits aerial or pedestal mounting
- Power passing/blocking jumpers for increased installations flexibility
- Interchangeability of faceplates for all directional couplers and splitters simplifies changes and reduces costs
- Durable powered-paint coating for superior environmental protection
- Compliant to 25A and 2-hour, 149°F (65°C) power soak rated
- RFI gasket
- Printed circuit board
- Rotational seizure mechanism for easy installation
- 360° alluminum alloy housing with double polyurethane coating

FLATNESS (±dB)

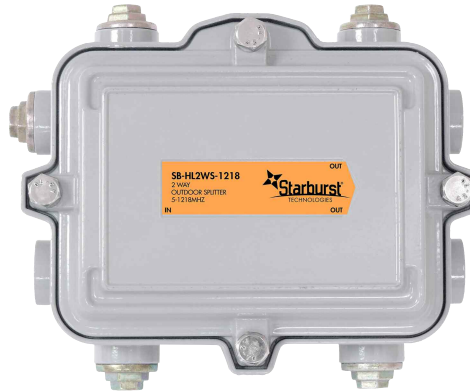
Flatness	±dB
5 to 1000	0.5
5 to 1250	0.6



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DOCSIS 3.1 Line Passives

Spitters (Hardline) • **SB-HLx-1218**
(x= 2WS, 3WS, or 3WBS)



SPECIFICATIONS:

INSERTION LOSS (dB)

Type	2 Way		3 Way		3 Way Unbal	
	Typ. dB	Max. dB	Typ. dB	Max. dB	Typ. dB	Max. dB
5	4.1	4.4	5.9	6.1	7.3	7.5
10	3.8	4.2	5.5	5.8	7.0	7.4
40	3.7	4.0	5.3	5.6	6.8	7.2
85	3.7	4.0	5.4	5.6	6.9	7.2
100	3.8	4.0	5.4	5.6	6.9	7.2
200	3.9	4.1	5.6	5.8	7.1	7.3
550	3.9	4.3	5.7	6.2	7.3	7.9
750	4.1	4.5	6.0	6.5	7.5	8.0
870	4.3	4.7	6.2	6.6	7.6	8.1
1000	4.5	4.9	6.4	6.9	7.8	8.3
1218	5.0	5.1	6.9	7.2	8.3	8.6
1250	5.0	5.2	7.1	7.3	8.4	8.7

RETURN LOSS (dB/Min)

Type	2 Way	3 Way	3 Way Un
Freq. MHz	Typ. dB	Typ. dB	Typ. dB
5 to 40	16	15	15
41 to 400	18	18	17
401 to 750	18	18	18
750 to 870	18	18	18
871 to 1000	17	17	17
1001 to 1250	16	16	16

ISOLATION (dB/Min)

Type	2 Way	3 Way	3 Way Un
Freq. MHz	Typ. dB	Typ. dB	Typ. dB
5 to 40	16	20	20
41 to 400	20	23	24
401 to 750	20	23	24
750 to 870	20	23	24
871 to 1000	20	20	22
1001 to 1250	18	20	22

FEATURES:

- 6 kV surge protection
- 15A current carrying capability of splitters and directional couplers and 20A input rating of power inserters allows network powering of cable telephony services
- AC bypass coil provides superior hum modulation performance
- Housing design permits aerial or pedestal mounting
- Power passing/blocking jumpers for increased installations flexibility
- Interchangeability of faceplates for all directional couplers and splitters simplifies changes and reduces costs
- Durable powder-paint coating for superior environmental protection
- Compliant to 25A and 2-hour, 149°F (65°C) power soak rated
- RFI gasket
- Printed circuit board
- Rotational seizure mechanism for easy installation
- 360° aluminum alloy housing with double polyurethane coating

FLATNESS (±dB)

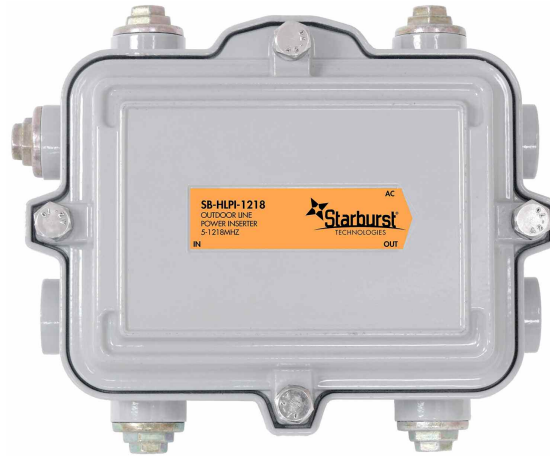
Flatness	±dB
5 to 1000	0.5
5 to 1250	0.6



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DOCSIS 3.1 Line Passives

Power Inserter (Hardline) • SB-HLPI-1218



SPECIFICATIONS:

INSERTION LOSS (dB)

Freq. MHz	Typ. dB	Max. dB
5	0.6	0.9
10	0.4	0.6
40	0.4	0.6
85	0.4	0.7
100	0.5	0.7
200	0.6	0.7
550	0.4	0.7
750	0.4	0.8
870	0.5	0.9
1000	0.6	1.0
1218	0.8	1.1
1250	0.9	1.2

RETURN LOSS (dB/Min)

Freq. MHz	Typ. dB
5 to 40	16
41 to 400	18
401 to 750	18
750 to 870	18
871 to 1000	18
1001 to 1250	18

ISOLATION (dB/Min)

Freq. MHz	Typ. dB
5 to 10	56
11 to 85	58
86 to 204	58
205 to 750	58
751 to 870	53
871 to 1250	53

FLATNESS (\pm dB)

Flatness	\pm dB
5 to 1000	0.35
5 to 1250	0.5

FEATURES:

- 6 kV surge protection
- 15A current carrying capability of splitters and directional couplers and 20A input rating of power inserters allows network powering of cable telephony services
- AC bypass coil provides superior hum modulation performance
- Housing design permits aerial or pedestal mounting
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