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Overview

The ECAD taps are designed for use in CATV area networks, primary in underground but also for overground installations. Depending on the type, up to 4 branch cables are connected to a CATV signal line. ECAD underground taps are available as 1-, 2-, 3- or 4-way taps with the well-known standard attenuations of 10 dB,

15 dB or 20 dB. The taps feature the new optimized frequency response of 5 to 1200 MHz for up- and downstream. PCB and component connections are in a plastic housing permanently installed. The thermally bonded housing ensures the necessary seal against moisture and a high degree of stability between cable and connector housing. The cable connectors are made of flexible coaxial cable with fixed RF connectors, therefore contact sleeves 4/20 are used. The design of the ECAD tap is based on the currently applicable specification KDG 1 TS 53 and achieves a very high screening factor.

With the transmission range of up to 1200 MHz as well the optimized frequency response, they also meet the demands of Germany's most important cable operators, providing modern and future-proof technology.

Order information

AB 210: PRA170607-04 AB 215: PRA170607-05 AB 220: PRA170607-06

Specifications

1. Transmission loss with tolerance zone in the frequency range 11 to 1200 MHz

	Input to output										
Тур	11	47	87,5	174	300	470	614	750	862	1000	1200
AB 210	2,1	2,1	2,1	2,1	2,1	2,2	2,2	2,3	2,3	2,5	2,7
AB 215	1,3	1,3	1,3	1,3	1,3	1,4	1,4	1,5	1,5	1,7	1,9
AB 220	0,8	0,8	0,8	0,8	0,8	0,9	0,9	1,0	1,0	1,2	1,4
	±0.3 dB ±0.4 dB						1 dB				

2. Tap loss in the frequency range 5 MHz to 1200 MHz

Tap loss for junction	Tap with rated tap loss in dB			
	10	15	20	
1 st junction	10,0	15,5	20,0	
2 nd junction	11,0	16,0	20,5	
	Tolerance: ±1 dB			





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3. Decoupling outlet/junction and junction/junction

Frequency range in	Tap types	Decoupling		
MHz		Outlet/junction	Junction/junction	
5 – 65	Entire range	≥20 dB	≥30 dB	
65 – 450	Entire range	≥30 dB	≥40 dB ¹⁾	
450 – 862	Entire range	≥25 dB	≥36 dB ²⁾	
862 – 1200	Entire range without 10 dB tap	≥20 dB	≥32 dB	
	10 dB tap	≥25 dB	≥32 dB	

¹⁾ For 10 dB taps applies: from 47 MHz 40 dB −1 dB/octave, however ≥37 dB.

4. Return loss

For all inlets and outlets of the taps and splitters against 75 Ω , real Measuring plane - contact sleeves.

Frequency range in MHz	Return loss
5 – 15	≥10 dB
15 – 47	≥15 dB +3 dB/octave
47 – 100	≥20 dB
100 – 1200	≥20 dB −1 dB/octave

5. Capacitive isolation of the inner conductor

UN=250 V - on all inlets and outlets.

6. Screening factor

Frequency range in MHz	SA
5 – 862	>90 dB
862 – 1200	≥85 dB

7. Ingress protection IPX8

Waterproofed for 100 hours in water at a depth of 1 meter.



²⁾ For 10 dB taps applies: ≥32 dB.