

## Overview

The ECAD splitter is designed for use in CATV area networks, primary in underground but also for overground installations. The ECAD underground splitter is available 2-way splitter with the well-known standard attenuations of 3.5 dB. The splitter features 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

SP 23.5: PRA 171001-01

**Labeling:** ECAD  
SP23.5  
1.2GHz

## Specifications

### 1. Transmission loss of each of the ports

Frequency range	5 – 10 MHz and 47 – MHz	450 – 606 MHz	606 – 1200 MHz	Tolerance
for each of the outlets	3.5 dB	3.6 dB	3.7 dB	±0.5 dB

### 2. Decoupling outlet between both ports

Frequency range	5 – 10 MHz and 47 – MHz	450 – 606 MHz	606 – 1200 MHz	Tolerance
between both outlets	20 dB	20 dB	17 dB	-1.0 dB



### 3. Return loss

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

Frequency range in MHz	Return loss
5 – 15	$\geq 10$ dB
15 – 47	$\geq 15$ dB +3 dB/octave
47 – 100	$\geq 20$ dB
100 – 1200	$\geq 20$ dB -1 dB/octave

### 4. Capacitive isolation of the inner conductor

UN=250 V – on all inlets and outlets.

### 5. Screening factor

Frequency range in MHz	SA
5 – 862	$\geq 90$ dB
862 – 1200	$\geq 85$ dB

### 6. Ingress protection IPX8

Waterproofed for 1 hour in water at a depth of 2 meter.