

OUTDOOR LINE – SPLITTERS, DC COUPLERS AND POWER INSERTERS

Outdoor line splitters and DC couplers are high performance passives to split signal and power in coaxial trunk and distribution lines of HFC networks.

Features

- High performance
- Intended for use in distribution networks
- Frequency range up to 1 GHz
- Well screened housings, meet easily Cenelec class A
- Umbrella housing design with weather resistant powder coating
- High performance power treatment
- Different mounting adaptors available

Technical specifications

DC couplers and Splitters

Product code	DC-158A	DC-1512A	DC-1516A	SP-215A	SP-315A	SP-3U15A		
Insertion Loss dB maximum							Low	High
5...47	1.8	1.4	1.0	4.1	6.5	4.2	7.8	
47...470	2.3	1.9	1.1	4.5	7.0	4.6	8.2	
470...862	2.8	2.2	1.4	4.8	7.5	5.0	8.7	
862...1000	3.5	3.0	2.4	5.4	8.5	5.5	9.5	
Tap Loss dB (+/- 1.5 dB)								
5...1000	8.5	12	16					
Out-to-Tap (Out) Isolation dB minimum							H/L	L/L
5...47	16	20	20	20	18	18	18	
47...470	22	23	28	24	22	22	22	
470...862	20	23	25	23	20	20	20	
862...1000	18	18	19	18	18	18	18	
Return Loss - All Ports dB minimum								
5...47	16	17	17	17	17		17	
47...470	18	18	18	18	18		18	
470...862	17	17	17	18	17		17	
862...1000	16	16	16	16	15		15	

General

Connectors	5/8	
Impedance	75 Ω	
Enclosure classification	IP67	
Operating temperature range	-10...+55 °C	
Storage temperature range	-30...+70 °C	
EMC compatibility	EN 50083-2, class A	
HUM modulation	-60dB @ 12A 60VAC	1)
Maximum current	15A @ 90 VAC	
Dimensions	135 mm x 80 mm x 125 mm	
Weight	max 0,65kg	

Notes

1) 5 - 1000 MHz, according EN 50083-4

Technical specifications

Line Power Inserters

Product code	LPI-20 6 kV	LPI-20 BB
Insertion Loss dB maximum		
5...47	1.1	1.0
47...470	1.1	1.0
470...1000	1.1	1.0
Out-to-Tap Isolation dB minimum		
5...47	69	60
47...470	55	50
470...862	45	45
862...1000	40	40
Tap Return Loss - All Ports dB minimum		
5...47	19	16
47...470	22	18
470...862	20	17
862...1000	18	16

General

Connectors	5/8	
Impedance	75 Ω	
Enclosure classification	IP67	
Operating temperature range	-10...+55 °C	
Storage temperature range	-30...+70 °C	
EMC compatibility	EN 50083-2, class A	
HUM modulation	-60dB @ 16A 60VAC	2)
Maximum current	15A @ 90 VAC	
Dimensions	135 mm x 80 mm x 125 mm	
Weight	max 0,55kg	

Notes

2) HUM modulation guaranteed only for LPI 20 6Kv, 5 - 1000 MHz, according EN 50083-4