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 1218 MHz
- Well screened housings, meet easily Cenelec class A
- Umbrella housing design with weather resistant powder coating
- High performance power treatment

General specifications

General

Connectors	5/8	
Impedance	75 Ω	
Enclosure classification	IP67	
Operating temperature range	-40...+60 °C	
EMC compatibility	EN 60782-2, class A	
HUM modulation	-70dB @ 10A / 65 VAC	1)
Maximum current	15A @ 90 VAC	
Surge Protection	2kV	2)
Dimensions	135 mm x 80 mm x 125 mm	
Weight	max 0,65kg	

Technical RF specifications

DC couplers and Splitters

Product code	3DC-8	3DC-12	3DC-16	3SP-2	3SP-3	3SP-3U		
Insertion Loss dB maximum						Low	High	
5…65	2.0	1.5	1.5	4.1	6.5	4.1	7.4	3)
65…300	2.3	1.7	1.9	4.3	7.0	4.3	7.5	
300…550	2.5	1.9	1.9	4.5	7.5	4.5	7.6	
550…750	2.7	2.1	2.3	4.6	7.7	4.6	7.7	
750…862	2.9	2.3	2.3	4.8	7.7	4.9	8.0	
862…1000	3.1	2.5	2.7	4.9	7.8	5.0	8.4	
1000…1218	3.3	2.8	2.8	5.2	8.2	5.3	8.9	
Tap Loss dB								
5…65	9.0	13	17	-	-	-	-	3)
65…300	9.0	13	17	-	-	-	-	
300…550	9.0	13	17	-	-	-	-	
550…750	9.0	13	17	-	-	-	-	
750…862	9.0	13	17	-	-	-	-	
862…1000	9.0	13	17	-	-	-	-	
1000…1218	9.8	13.8	17.8	-	-	-	-	
Out-to-Tap (Out) Isolation dB minimum								
5…65	26	26	32	26	22	25	25	3)
65…550	24	27	30	24	24	24	24	
550…860	23	25	28	22	23	23	23	
860…1000	22	23	26	22	22	22	22	
1000…1218	21	22	24	20	20	21	21	
Return Loss - All Ports dB minimum								
5…47	18	18	18	18	18	18		3)
47…950	18	18	18	18	18	18		4)
950…1218	10	10	10	10	10	10		

Technical RF specifications

Line Power Inserters

Product code	3LPI	
Insertion Loss dB maximum		
5…65	0.8	3)
65…300	1.1	
300…550	1.2	
550…750	1.3	
750…862	1.3	
862…1006	1.4	
1006…1218	1.6	
RF-to-AC isolation dB minimum		
5…47	65	3)
47…470	60	
470…1006	55	
1006… 1218	50	
Tap Return Loss - All Ports dB minimum		
5…47	18	3)
47…950	18	4)
950…1218	10	

Notes

1) Typically -60dB @ 10A / 65 VAC between 10Mhz and 55Mhz; -50dB @ 10A / 65 VAC below 10Mhz.
2) 2 kV, 1,2/50 µs surge voltage according to IEC 61000-4-5
3) Between 5MHz and 15MHz the above specifications are typical values and not min or max values.
4) At F≥47 MHz -1.5 dB per octave

Ordering Codes

- **3DC-8-yy, 3DC-12-yy, 3DC-16-yy, 3SP-2-yy, 3SP-3-yy, 3SP-3U-yy, 3LPI-yy**

  yy = housing type = SA for Scientific Atlanta

Teleste reserves the rights to alter specifications, features, manufacturing release dates and even the general availability of the product at any time.