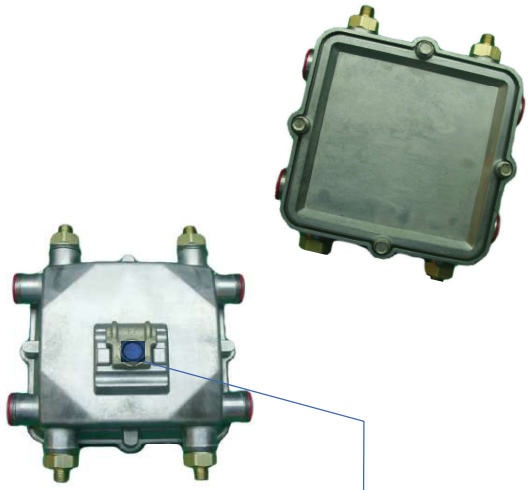
66 SERIES 1.0 GHz SPLITTERS & COUPLERS [DC/DS66G-x]

Cable Products, Mainline Splitters & Couplers

Features

- 5-1002 MHz bandwidth
- 15 A Current Capacity / 15 A, (or 20 A) Current Capacity for Power Inserter
- Aluminum Alloy Housing Used for Corrosion Resistant
- Double Polyurethane Coating for Greater Weather Protection
- Neoprene Weather Gasket and RFI Shielding at 120 dB
- Printed Circuit Board
- Aerial or Pedestal Installation
- Rotational Seizure Mechanism for Aerial or Pedestal Installation
- Compliant with SCTE Guidelines



Application

Both a directional coupler (unequal power divider) and splitter (equal power divider) split your network's trunk and feederlines. A line power inserter enables a single cable to service the power and signal requirements of active modules in a broadband telecommunications network by passively combining radio frequency (RF) signals with up to 90 volts alternating current (VAC) from a line power supply.

Ordering Information

DS66G- **x**

- *2, 3, 3B, Splitter*

DC66G- **x** - **x**

- *15 or 20 Amp (Options for Power Inserter only)*
- *8, 12, 16 dB Coupler, PI (Power Inserter)*

Model Number	Standard Carton	Inner Box	Carton Weight	dB Values Available
DS66G-xx	30 pcs	10 pcs	20 kgs / 44 lbs	2, 3, 3B Splitter
DC66G-xx	30 pcs	10 pcs	20 kgs / 44 lbs	8, 12, 16 dB Coupler, -PI Power Inserter

Customization available upon request

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General Specifications

Power Passing:	15 A, 60/90 VAC for Directional Splitters & Directional Couplers 15 A, (20 A Optional) 60/90 VAC for Power Inserter
Hum Modulation @10Amp:	-60 dB
Surge Withstand:	IEEE C62.41-1991 Category B3/6kV Combination Wave, 3000 A
Waterproof Condition:	1.2kg/cm² 60 sec
Surge Protection:	1kV 1.2/50 ms
Impedance:	75 Ohms
Connectors:	In/Out 5/8” -24 NEF female

Mainline Splitters - 1.0 GHz

Insertion Loss (dB) Tolerance: ± 0.25

Frequency	DS66G-2	DS66G-3B	DS66G-3		
5-42 MHz	3.9	6.3	4.0	7.4	dB
43-600 MHz	4.2	6.3	4.2	7.6	dB
601-800 MHz	4.5	6.7	4.6	8.1	dB
801-1002 MHz	5.1	7.7	5.2	9.3	dB

Output - Output Isolation (dB)

Frequency	DS66G-2	DS66G-3B	DS66G-3	
5-15 MHz	21	22	22	dB
16-400 MHz	25	22	24	dB
401-600 MHz	21	22	22	dB
601-800 MHz	20	21	22	dB
801-1002 MHz	20	20	20	dB

Return Loss - Input / Output (dB)

Frequency	DS66G-2	DS66G-3B	DS66G-3	
5-42 MHz	17	17	17	dB
43-600 MHz	18	18	18	dB
601-800 MHz	17	16	17	dB
801-1002 MHz	17	17	17	dB

Mainline Couplers - 1.0 GHz

Insertion Loss (dB) Tolerance: ± 0.25

Frequency	DC66G-8	DC66G-12	DC66G-16	DC66G-PI-x	
5-42 MHz	2.2	1.2	1.0	0.7	dB
43-600 MHz	2.2	1.3	1.2	0.7	dB
601-800 MHz	2.5	1.7	1.4	0.9	dB
801-1002 MHz	3.1	2.2	2.0	1.0	dB

Tap Value (dB) Tolerance: ± 1.5

Frequency	DC66G-8	DC66G-12	DC66G-16	DC66G-PI-x	
5-600 MHz	8	12	16		dB
601-800 MHz	8	12	16		dB
801-1002 MHz	8	12	16		dB

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Mainline Couplers - 1.0 GHz (cont.)

Output - Tap Isolation (dB)

Frequency	DC66G-8	DC66G-12	DC66G-16	DC66G-PI-x	
5-15 MHz	21	23	24	63	dB
16-400 MHz	28	27	30	60	dB
401-600 MHz	25	25	27	60	dB
601-800 MHz	21	21	20	60	dB
801-1002 MHz	20	20	20	52	dB

Return Loss - Input / Output (dB)

Frequency	DC66G-8	DC66G-12	DC66G-16	DC66G-PI-x	
5-42 MHz	17	17	17	18	dB
43-600 MHz	18	18	18	18	dB
601-800 MHz	17	17	17	17	dB
801-1002 MHz	17	17	17	17	dB

Hum Modulation @ 10 A (dB)

Frequency	DS66G-2	DS66G-3B	DS66G-3	DS66G-8	DS66G-12	DS66G-16	DS66G-PI-x
5-1002 MHz	≥ -70	≥ -70	≥ -70	≥ -70	≥ -70	≥ -70	≥ -70

Screening Effectiveness (dB)

Frequency	DS66G-2	DS66G-3B	DS66G-3	DS66G-8	DS66G-12	DS66G-16	DS66G-PI-x
5-30 MHz	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5
31-1002 MHz	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95

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