



Innovation™ Directional Couplers

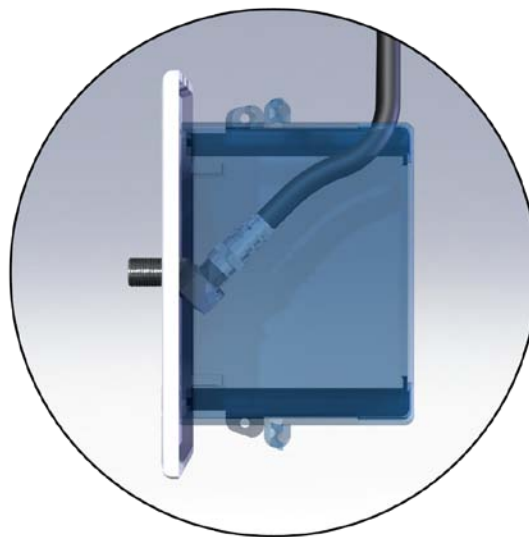
Ultra compact and high performance!

Gale Corporation's patented, ultra-compact Directional Couplers (DC) make "loop-through" cable design a breeze! Smart, ergonomically designed DC devices attach directly onto a standard wall plate making the most of limited space. Additionally, the Gale Corporation DC nearly eliminates the potential for crushed cables and stressed connectors – and return service calls.



FEATURES

- 5-1000 Mhz bandwidth
- Available in 6dB (DCA6), 9dB (DCA9), and 12dB (DCA12) tap port attenuation
- 25% improved circuit performance over our competitors' splitters
- 360° seizing pins on all ports
- SMT components on internal PCB
- Unmatched circuit performance
- Premium Intermodulation distortion and second harmonics performance
- Flat end machine-threaded F-ports with no parting lines at base
- Easy access to ports for cable installation
- Easily identified color-coded port labels
- Heavy duty cast zinc case with -130dB RFI



Part #	Description
DCA6	6 dB Directional Coupler
DCA9	9 dB Directional Coupler
DCA12	12 dB Directional Coupler

Gale Corporation

P.O. Box 7958 Auburn, CA 95604 | 888.566.5728 | info@galecorp.com | www.galecorp.com

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Directional Coupler Specifications

Model Number		DCA6	DCA9	DCA12
Insertion Loss (Out)	Frequency (MHz)	Maximum (dB)		
	5-15	2.0	1.3	0.6
	15-40	1.9	1.2	0.5
	40-300	1.8	1.1	0.5
	300-500	2.0	1.3	0.6
	500-750	2.1	1.4	0.7
	750-1000	2.6	2.1	1.0
Tap Insertion Loss Tolerance	Frequency (MHz)	(±dB)		
	5-15	0.3	0.1	0.5
	15-40	0.3	0.1	0.5
	40-300	0.2	0.1	0.3
	300-500	0.1	0.3	0.1
	500-750	0.2	0.4	0.4
	750-1000	0.3	0.2	0.2
Isolation	Frequency (MHz)	Minimum (dB)		
	5-15	31.0	32.2	41.0
	15-40	36.0	32.4	43.3
	40-300	33.1	31.2	39.1
	300-500	28.6	30.7	31.4
	500-750	29.5	33.2	29.3
	750-1000	30.5	30.3	25.5
Return Loss (In)	Frequency (MHz)	Minimum (dB)		
	5-15	23.1	25.0	21.1
	15-40	23.0	26.8	24.2
	40-300	22.6	25.5	23.9
	300-500	20.8	21.4	21.6
	500-750	22.4	23.4	21.9
	750-1000	33.8	23.4	29.7
Return Loss (Tap)	Frequency (MHz)	Minimum (dB)		
	5-15	31.4	22.5	24.9
	15-40	40.3	25.8	27.6
	40-300	36.8	26.7	30.9
	300-500	24.0	25.7	29.3
	500-750	24.5	26.9	25.0
	750-1000	31.0	24.1	26.0
Return Loss (Out)	Frequency (MHz)	Minimum (dB)		
	5-15	25.0	24.2	24.1
	15-40	28.2	27.3	31.6
	40-300	27.8	26.1	30.2
	300-500	21.9	20.5	22.6
	500-750	21.7	19.7	21.5
	750-1000	29.3	23.5	25.8
RFI Isolation	Frequency (MHz)	Minimum (dB)		
	5-1000	130	130	130

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