

# CommScope Directional Coupler, 8 dB, 555-6000 MHz, 4.3-10 Female, -165 dBc

SKU: ACC-CS-00027

MPN: C-8-UW-43-A16

## Description

The CommScope Directional Coupler (SKU: ACC-CS-00027) is designed for reliable RF signal management across a frequency range of 555 MHz to 2700 MHz. It features a coupling value of 8 dB and operates with a minimal insertion loss of 1.10 dB, ensuring efficient signal distribution. The device supports 4.3-10 Female connectors for all ports, offering ease of integration into existing systems.

With an IP65 rating, this coupler is protected against dust and low-pressure water jets, making it suitable for various indoor and outdoor applications. It functions effectively in temperatures from -35 °C to 85 °C, catering to diverse environmental conditions. The coupler's electrical performance is robust, with a VSWR of 1.2:1, return loss of  $\leq 20.80$  dB, and inter-port isolation of  $> 28$  dB, ensuring optimal signal clarity and minimal interference.

Manufactured to ISO 9001 and RoHS standards, the coupler guarantees high quality and environmental...

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CommScope (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. As a communications infrastructure leader, we shape the always-on networks of tomorrow. For more than 40 years, our global team of greater than 20,000 employees, innovators and technologists have empowered customers in all regions of the world to anticipate what's next and push the boundaries of ...

# RF Specification

Min. Frequency:	555 MHz	Input Impedance:	50
Max. Frequency:	2700 MHz	Max. Input Power:	300 W
Coupling / Split:	8 dB	PIM, 3rd Order:	-162 dBc

## Port Matrix

Port Function	RF Interface
Input	4.3-10 Female
Output	4.3-10 Female
Coupled	4.3-10 Female

## Frequency Test Data

Start Frequency	Stop Frequency	VSWR	Insertion Loss	Inter-Port Iso.	Return Loss
555 MHz	2700 MHz	< 1.2:1	1.1 dB	> 28 dB	≤ 20.8 dB

# Physical Specification

Input Ports:	1	Min. Operating Temperature:	-35 °C
Output Ports:	2	Max. Operating Temperature:	85 °C
Subtype:	Directional Coupler	Compliance/Certifications:	ISO 9001 Quality Management
Ingress Protection:	IP65	RoHS	
Dimensions:	158 mm x 75 mm x 22 mm		
Weight:	0.38 kg		

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