

CHEX® Multi-port Passive Network Combiners

Organized, Manageable, Accessible

Product Description

CableServ CHEX® Network Combiners provide a standardized cable management platform, combining multiple input signals with output to one port. RF signals from a variety of sources can be routed using CHEX® combiners in a reliable and convenient modular format.

The rugged yet compact, modular design provides high port density with easy installation, maintenance and cable management. The unique mounting system allows flexibility in vertical and horizontal rack mounts to achieve the desired routing and density required in individual network layouts. A standard 8 input to 1 output configuration can provide as many as 80 input ports in a 4 Rack Unit, 10 module vertical installation. When two horizontal rack mounts are attached back-to-back to a mid-rack accessory rail, the 4 RU density increases to 160 input or output ports.

CHEX® Combiners are designed with the features needed in today's expanding services market. Full 5 MHz to 1 GHz bandwidth coverage provides for forward and return path applications. Modules are "plug and play" with hook-on mounting that allows easy removal without having to disconnect lash-ups. All are 100% Quality Assurance inspected. The use of high quality RF shielded componentry assures repeatable, dependable electrical performance.

CHEX® Combiners fit standard 19" racks with modules available in either a 10 unit Combiner Front Panel for maximized vertical installations or a 1 Rack Unit Front Panel for up to 24 port horizontal mounting. Product design assures high port-to-port isolation, low insertion loss and low input and output return loss. A -20 dB test/monitor port is standard and our two year warranty applies. Custom configurations can be designed in consultation with our product engineers.

Applications

- RF Network configuration and routing in Headend, Hub and Node facilities.



CHEX® Shown Mounted to Vertical Panel



CHEX® Shown Mounted to Horizontal Panel

Product Features

- Space saving modular design for maximized density and easier growth management.
- RF shielded componentry for high isolation and optimized electrical performance.
- High port-to-port isolation.
- Convenient "plug and play" with secure hook-on mounting.
- Vertical or horizontal configurations provide flexibility and streamline facility management.
- 5 MHz to 1 GHz frequency response for more network options.
- Full 24 Month Limited Warranty.

Product Specifications

Specification	Frequency (MHz) Units		CHEX [®] MODELS										
			8C	8S	4C	4S	4CS	3C	3S	3CS	2C	2S	2CS
Return Loss (Any Output Port)	5-10 MHz	dB	-16										
	10-200 MHz	dB	-18										
	10-870 MHz	dB	-18										
	870-1000 MHz	dB	-16										
Return Loss (Any Input Port)	5-10 MHz	dB	-16	-18	-20	-18	-21	-17	-17	-22	-22	-20	-21
	10-200MHz	dB	-17	-17	-19	-19	-19	-22	-22	-22	-21	-21	-21
	10-870 MHz	dB	-18	-21	-17	-20	-18	-19	-21	-18	-20	-23	-20
	870-1000 MHz	dB	-16	-20	-17	-18	-16	-18	-20	-16	-16	-22	-16
Insertion Loss (Maximum between any I/P or O/P port to any O/P or I/P port)	5-10 MHz	dB	-10.6	-10.6	-7.2	-7.2	-6.6	-6.0	-6.0	-5.5	-3.8	-3.8	-3.5
	10-200MHz	dB	-11	-11	-7.0	-7.0	-7.0	-6.0	-6.0	-6.0	-3.7	-3.7	-3.7
	10-870 MHz	dB	-12	-12	-8.1	-8.3	-7.1	-7.2	-7	-6.1	-4.5	-4.7	-3.7
	870-1000 MHz	dB	-12.8	-12.8	-9.0	-9.0	-7.7	-7.9	-7.5	-6.5	-5.0	-5.0	-4.2
RFI	5-1000 MHz	dB	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120	-120
Port to Port Isolation* Depending on Port Pair (Typical)	5-10 MHz	dB	-20										
	10-200MHz	dB	-27	-27	-30	-30	-30	-30	-30	-30	-30	-30	-30
	10-870 MHz	dB	-28	-28	-25	-25	-25	-25	-25	-25	-25	-25	-25
	870-1000 MHz	dB	-28	-28	-24	-24	-23	-22	-22	-22	-22	-25	-25
Test Point Port 20dB +/-1	All Frequencies	dB	-20	-20	-20	-20		-20	-20		-20	-20	

Specifications subject to change without notice.

Port Return Loss: With all unused ports terminated with a 75 Ohm load.

Forward Transmission Loss: With all unused ports terminated with 75 Ohm load.

Port-to-Port Isolation: With all unused ports terminated with a 75 Ohm load. * Individual model specifications list all port pair isolation specifications.

Order Information

PRODUCT MODEL	ORDER NUMBER
CHEX [®] 8C EIGHT WAY COMBINER	824-799-100-OCE
CHEX [®] 8S EIGHT WAY COMBINER	824-799-101-OCE
CHEX [®] 4C FOUR WAY COMBINER	824-799-102-OCE
CHEX [®] 4S FOUR WAY SPLITTER	824-799-103-OCE
CHEX [®] 4CS DOUBLE 4WAY COMBINER/SPLITTER	824-799-106-OCE
CHEX [®] 3C THREE WAY COMBINER	824-799-110-OCE
CHEX [®] 3S THREE WAY SPLITTER	824-799-111-OCE
CHEX [®] 3CS DOUBLE 3WAY COMBINER/SPLITTER	824-799-112-OCE
CHEX [®] 2C TWO WAY COMBINER	824-799-104-OCE
CHEX [®] 2S TWO WAY SPLITTER	824-799-105-OCE
CHEX [®] 2CS DOUBLE 2WAY COMBINER/SPLITTER	824-799-107-OCE
CHEX [®] VFP VERTICAL FRONT PANEL	824-799-108-OCE
CHEX [®] HFP HORIZONTAL FRONT PANEL	824-799-109-OCE

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