

HFC & COAXIAL CONNECTIVITY

Broadband Splitters & Directional Couplers

75-ohm passives for coaxial signal distribution, subscriber connections and planned network maintenance.



Representative splitter and directional-coupler configurations. Branding shown is illustrative.

SPLIT SIGNALS	SET BRANCH LEVELS
CX-SP Series 2-, 3-, 4-, 6- and 8-way options, including balanced and unbalanced 3-way models.	CX-DC Series One-way directional couplers with nominal 6, 9, 12 or 16 dB tap values.

Specified for 5-1000 MHz

Choose the branch count and signal loss to suit the installed network. Splitters distribute a signal among outputs; directional couplers feed a tap connection while retaining a lower-loss through path.

F-type interfaces • Die-cast zinc housing with tin plating • -40 to +60 °C operation

ComponexX, DIGITAL-1 and private-label programs can be discussed for the selected configuration, packaging and order volume.

Match the passive to the installation

Share the model, operating band, branch requirements and quantity. We can review the configuration and quote the supply program.

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CX-SP SERIES

Broadband Splitters

Horizontal and vertical configurations for 75-ohm, 5–1000 MHz coaxial networks.

Upper-band electrical limits | 870–1000 MHz

Model	Insertion loss max (dB)	Input return loss min (dB)	Output return loss min (dB)	Output isolation min (dB)
CX-SP-2WH-1G	4.0	21	21	22
CX-SP-3WH-1G	3.9 / 7.8	21	22	27
CX-SP-3WBH-1G	6.7	20	22	23
CX-SP-4WH-1G	7.9	20	21	24
CX-SP-2WV-1G	4.2	20	20	23
CX-SP-3WV-1G	4.3 / 8.3	20	20	23
CX-SP-3WBV-1G	6.9	20	20	23
CX-SP-4WV-1G	8.2	20	20	23
CX-SP-6WV-1G	10.5	20	20	23
CX-SP-8WV-1G	12.5	20	20	23

Quality-control limits for 870–1000 MHz. These are not typical values or limits for the entire 5–1000 MHz range.

Read the model consistently

2W, 3W, 4W, 6W and 8W identify the output count. 3WB identifies a balanced 3-way configuration; 3W identifies the unbalanced version. H and V distinguish horizontal and vertical configurations. The 1G suffix identifies the documented 1 GHz range.

Choose the loss pattern as well as the port count

Unbalanced 3-way models have two branch-loss values, shown with a slash in the table. Select the appropriate branch for the required signal level. Balanced models use the same specified loss value for each output.

Request the selected model's complete specification

Include the operating frequencies, port layout and required loss budget so the full response and installation details can be matched to your application.

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Need a wider operating band?

Open the HFC & Coaxial Technical Catalog for 1218 MHz, MoCA and extended-frequency selections.

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Overview

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CX-DC SERIES

Directional Couplers

One-way tap configurations for controlled signal branching in 75-ohm, 5–1000 MHz coaxial systems.



Representative private-label directional coupler.

Upper-band electrical limits | 870–1000 MHz

Model	Nominal tap value (dB)	Through insertion loss max (dB)	Input return loss min (dB)
CX-DC-1W-6dB	6	3.2	20
CX-DC-1W-9dB	9	2.2	20
CX-DC-1W-12dB	12	1.5	20
CX-DC-1W-16dB	16	1.3	18

Through-loss and return-loss figures are quality-control limits for 870–1000 MHz. Nominal tap values identify the model; they are not through-loss figures or a stated coupling tolerance.

Specify the through path and tap path

Select the tap value from the required branch level, then allow for through loss in the continuing cable run. Confirm the selected model's coupling tolerance, port-specific return loss and directivity for the intended network.

Built into your supply program

Discuss model selection, branding, packaging, labeling and recurring order quantities with ComponexX.

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Overview

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