

QUICK REFERENCE GUIDE TO TAPS

What taps do: Network Taps provide permanent access to 100% of all network traffic - which is required when monitoring and securing your network- without introducing costly bottlenecks or points of failure. Tool changes can be made without network downtime.

Why Ixia: Widest range of taps, short lead times, exceptional MTBF, global distribution, best in class worldwide Support

How to use this table: **COLUMN 1** provides: connector type- LC or MTP, fiber mode- Multimode (“MM”) or Single mode (“SM”), and fiber spec-LR, SR, etc. **COLUMN 2** provides: Network speed and fiber diameter. **COLUMNS 3-7** provide Part numbers for each Split Ratio. All of this information is determined by the network link to be tapped, and must be provided by your customer.

Useful Links:

Product Information: <https://ixia.keysight.com/products/network-taps-regenerators-and-aggregators>

Taps vs Spans: <https://ixia.keysight.com/resources/taps-vs-spans-total-visibility-anywhere>

Quick Reference Guide: <https://ixia.keysight.com/resources/flex-tap-quick-reference-guide>

OPTICAL TAPS		Ordering Information / Insertion Loss					Accessories	
Family Connector Fiber	Speed/Wavelength/Fiber Diameter	50/50 Split Part#/Insertion Loss	60/40 Split Part#/Insertion Loss	70/30 Split Part#/Insertion Loss	80/20 Split Part#/Insertion Loss	90/10 Split Part#/Insertion Loss	Y Cable Kits	Rack Mounts
FlexTap LC SM LR	All speeds to 400G 1260-1340nm, 1550nm 8.5µm	TP-100-LR-85-50 3.7dB/3.7dB	TP-100-LR-85-60 2.8dB/4.8dB	TP-100-LR-85-70 2.0dB/6.1dB	TP-100-LR-85-80 1.3dB/8.0dB	TP-100-LR-85-90 0.8dB/12.0dB	705-0014-001	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
PatchTap LC SM LR	All speeds to 100G 1260-1340nm, 8.5µm	TPPCH-100-LR-85-50 3.8dB/3.8dB	-	TPPCH-100-LR-85-70 2.3dB/6.1dB	-	-	705-0014-001	Patch Panels
FlexTap LC VHD SM LR/LX	All speeds to 400G 1260-1340nm, 1550nm 8.5µm	TPVHD-100-LR-85-50 3.7dB/3.7dB	TPVHD-100-LR-85-60 2.8dB/4.8dB	TPVHD-100-LR-85-70 2.0dB/6.1dB	-	-	705-0014-001 x3	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
FlexTap LC Secure+ SM LR	All speeds to 400G 1260-1340nm, 1550nm 8.5µm	TPS-100-LR-85-50 3.7dB/3.7dB	-	-	-	-	705-0014-001	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
FLEX TAP MTP PSM4 SM LR	All speeds to 400G 1260-1340nm, 1550nm 8.5µm	-	-	TP-PSM4-85-70-MTP 2.6dB/6.4dB	-	-	MTP-SM-Y-CBL (optional)	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
FlexTap LC MM SX	1G 50µm	TP-1-SX-50-50 4.5dB/4.5dB	TP-1-SX-50-60 3.1dB/5.1dB	TP-1-SX-50-70 2.4dB/6.3dB	TP-1-SX-50-80 1.8dB/8.1dB	TP-1-SX-50-90 1.3dB/11.5dB	705-0012-001	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
FlexTap LC MM SR	50/25G/10G/1G 810-890nm, 50µm	TPX-10-SR-50-50 3.9dB/3.9dB	TPX-10-SR-50-60 2.9dB/4.9dB	TPX-10-SR-50-70 2.2dB/6.1dB	TPX-10-SR-50-80 1.6dB/7.9dB	-	705-0012-001	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
PatchTap LC MM SR	25G/10G/1G 810-890nm, 50µm	TPPCH-10-SR-50-50 3.9dB/3.9dB	-	TPPCH-10-SR-50-70 2.2dB/6.1dB	-	-	705-0012-001	Patch Panels
FlexTap LC VHD MM SR/SX	50/25G/10G/1G 810-890nm, 50µm	TPVHD-10-SR-50-50 3.9dB/3.9dB	TPVHD-10-SR-50-60 2.9dB/4.9dB	TPVHD-10-SR-50-70 2.2dB/6.1dB	-	-	705-0012-001 x3	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
FlexTap LC BIDI MM SR	100G/40G 832-918nm, 50µm	TPX-40-SR-50-50-BD 4.1dB/4.1dB	-	-	-	-	N/A	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
FlexTap LC MM MR4	40G /25G/10G 1260-1360nm, 50µm	-	-	TP-40-SR-50-70-MR4 3.7dB/6.7dB	-	-	705-0012-0001	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
FlexTap MTP MM SR4	100G/40G/4x25/4x10G 810-890nm, 50µm	TPX-40-SR-50-50-MTP 4.4dB/4.4dB	-	TPX-40-SR-50-70-MTP 2.6dB/6.6dB	-	-	includes MTP Y cable	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8
FlexTap MTP MM SR10	100G/40G/12x10G 50µm	TPX-100-SR-50-50-MTP 4.4dB/4.4dB	-	TPX-100-SR-50-70-MTP 2.6dB/6.6dB	-	-	includes MTP Y cable	RK-FLEX-ID-24 RK-FLEX-24 RK-FLEX-8

What a bypass does: Bypass switches are in-line devices that provide fail-safe protection for in-line security and monitoring devices. When inline tools fail, bypass switches automatically redirect network traffic so that it flows around the failed tool, instead of through

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it. Bypass switches typically have heartbeats to detect security tool failure, and power fail protection to continue to operate with no power.

Why Ixia: External bypass architecture, pre-configured heartbeats, redundant or serial active tool support, centralized management with IFC, world class GUI interface for rapid deployment of complex topologies, highest density (VHD), and the only bypass with two management ports (DUO).

Useful Terminology:

An External bypass switch is purpose-built hardware that keeps your network safe in the event of tool failure. Some security tools come with **Internal bypass switches**, but internal switches could require you to break your network link to disconnect the tool for service maintenance.

High availability (“HA”) refers to a network architecture design that provides continued availability of network resources, even if individual components fail.

Failover modes: Active-Standby is defined as a primary active tool connected through the iBypass switch along with redundant inactive tools that are activated in event of primary tool failure. **Active-Active** is defined as duplicate primary active tools connected serially through the iBypass switch.

Useful Links:

Product Information: <https://ixia.keysight.com/products/iBypass>

Quick Reference Guide: <https://ixia.keysight.com/resources/ibypass-quick-reference-guide>

Video: <https://ixia.keysight.com/products/ibypass-duo>

Bypass Switches	Ordering Information		Specifications/Features					Accessories/Notes	
	FAMILY	Part Numbers	Speed	Networks per Device	Media Type	High Availability	Link Fault Detect	Accessories	Important Notes
iBypass 100G	IBP100G-CH-AC IBP100G-CH-DC (Up to 2 Modules per Chassis)	MIBP100G-SR4 MIBP100G-LR4	100G	1 or 2	Fiber	-	LFD	IBP100G-ACPS IBP100G-DCPS IBP100G-FAN-ASSY	Each Module supports 1 network and 1 tool segment Fail Open/Fail Close
iBypass VHD	IBPVHD-CH-AC IBPVHD-CH-DC IBPVHD-CHONLY-AC	IM-21-BYP LIC-IM-21-AR	10/1G	12 Segments	SFP+/SFP	Active-Active Active-Standby	LFD / LFDC	IM-21-BATT IBPVHD-PWR-AC IBPVHD-PWR-DC	Chassis includes one module that contains 4 bypass switches. Order SFP+KT or SFPKT Transceivers.
iBypass 40G	I2BP-40G-SR-50-Q	-	40G	1 Segment	Fiber	-	LFD	-	Two 3M MM MTP-MTP network cables included. Standard 40G MM MTP-MTP tool side cables not included.
iBypass DUO	IBPDUO-1X10-SR IBPDUO-2X10-SR IBPDUO-1X10-LR IBPDUO-2X10-LR	-	10G/1G	1 or 2	Fiber	Active-Active Active-Standby	LFD / LFDC	DUO-PWRAC DUO10G-VHD-FAN-ASSY	Mounting Brackets and Rack mounts included with 1x10 Chassis
iBypass HD	IBP-8000 IBP-8000-DC (Up to 4 Modules per Chassis)	DBM-100 DBM-200 DBM-250 DBM-300	10/100/1G	Up to 8 Segments	Copper or Fiber	Active-Standby	LFD	-	Chassis requires minimum 1 DBM module. Each DBM module contains 2 bypass switches. Order two SFPKT Transceiver kits per
iBypass 3	I3BP-CU3	-	10/100/1G Copper	1 Segment	Copper	-	LFD / LFDC	RK-8V2 rack mounts RK-8V2-BPL Blank Plates	Holds up to 8 taps in 1RU