

Ixia Flex Tap™

Passive Network Monitoring

The Ixia Flex Tap™ provide reliable continuous visibility of 100% of network traffic to support performance and security with no network performance degradation or disruption.

Flex Taps are flexible and scalable, each Tap in the family is modular, can supports speeds up to 400G, and is 100 percent passive. Flex Taps are available in multimode and single mode fiber varieties with split ratios ranging from 50/50 up to 90/10. Depending on the model, the Flex Tap is available with either LC or MTP (MPO) connectors. Up to 36 taps can be deployed in a single 1U 19inch rack space.

The design of the Flex Tap is optimized and tested for high-performance fiber networks ranging from 1G to 400G. Flex Taps are deployed at any inline connection on the network, therefore no additional overhead or management burden is added to the network devices to copy traffic for the monitoring/ security infrastructure. The Flex Tap is compatible with all major manufacturers' monitoring devices, including protocol analyzers, probes, and intrusion detection systems, and is protocol agnostic.

Highlights

- Highly reliable fiber optic Tap technology
- Deploy up to 36 Taps in 1U
- Supports network speeds from 1G to 400G
- Available in multimode and single mode fiber models
- Cisco 40G/100G BiDi Tap model available
- Choice of standard size rack mount (up to 36 taps) or mini-chassis which is one third width - ideal for desk top or space constrained deployments
- Passes all full-duplex traffic (including errors) from all layers
- Secure+ model provides additional isolation for sensitive applications
- Non-disruptive and transparent
- 40G SR4 MTP model can be used as one 40/100G SR4 tap or 4 x 10G taps
- 100G MTP model can be used as one 100G (SR10) tap or 12 x 10G taps
- Requires no power and does not have an IP address, providing safety from remote attacks
- Black and tan LC connectors denote multimode fiber for network monitoring
- Color coded in blue and green for easy port monitoring on LC connectors in single mode fiber
- 40G and 100G Multimode MTP models include monitor port Y-Cable

Key Features

- Low insertion loss – minimize impact on data flows
- Flex Tap is fully passive – monitoring infrastructure does not impact network availability
- Does not modify traffic – tools see real copies of the packets from the network
- High density – Save valuable rack real estate
- Cost effective – avoid costly expenses managing SPAN ports



Ixia Flex Taps in RK-FLEX-24 Rack

Flex Tap Families



Flex Tap LC



Flex Tap MTP



Flex Tap BiDi



Flex Tap SECURE+



Flex Tap VHD

Rack Options

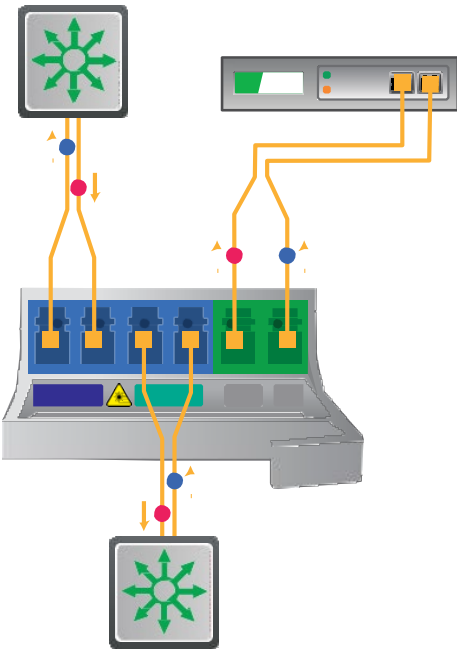


Assembly Rack Chassis – RK-Flex-24

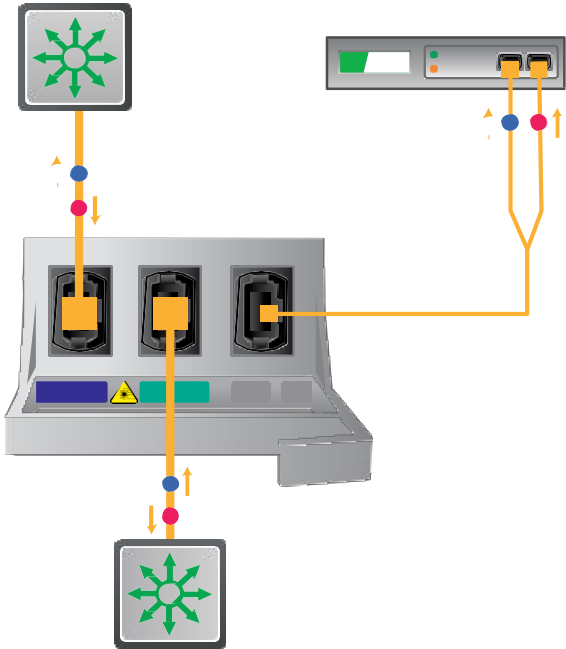


Mini Chassis – RK-Flex-8

Tap Deployment



LC Tap Deployment



MTP Tap Deployment

Specifications

Standard Models - LC			
	LC Models	Cisco BiDi Model	
Mechanical	1.6" High x 7.8" Deep x 0.7" Wide 24 taps in 19 inch 1U rack 1 tap per tap module	1.6" High x 10.1" Deep x 1.3" Wide 12 taps in 19 inch 1U rack	
Fiber Specs	<p>Multimode: 50/125µm; 850nm and 1310nm (LX4) Supports speeds of: 1G, 10G, 25G, 40G, 50G. Optical Protocols: SX, SR and LX4</p>	<p>Single Mode: 8.5/125µm; 1310nm/1550nm Supports speeds of: 1G, 10G, 25G, 40G, 100G and 400G Optical Protocols: LX, LR, ER, LR4, ELR4, CWDM4 and FR-4</p>	50/125µm; 850nm Supports speeds of 40G and 100G
Connectors	<ul style="list-style-type: none"> • Network Ports: 2 x Duplex LC • Monitoring Ports: 1 x Duplex LC 	<ul style="list-style-type: none"> • Network Ports: 2 x Duplex LC per tap • Monitoring Ports: 2 x Duplex LC per tap 	

VHD (Very High Density) Models - LC		
Mechanical	1.6" High x 10.1" Deep x 1.3" Wide 36 taps in 19 inch 1U rack 3 taps per tap module	
Fiber Specs	<p>Multimode: 50/125µm; 850nm Supports speeds of: 1G, 10G, and 25G Optical Protocols: SX, and SR</p>	<p>Single Mode: 8.5/125µm; 1310nm/1550nm Supports speeds of: 1G, 10G, 25G, 40G, 100G and 400G Optical Protocols: LX, LR, ER, LR4, ELR4, CWDM4 and FR-4</p>
Connectors	<ul style="list-style-type: none"> • Network Ports: 6 x Duplex LC • Monitoring Ports: 3 x Duplex LC 	

Standard Models - MTP	
Mechanical	1.6" High x 10.1" Deep x 1.3" Wide 12 taps in 19-inch 1U rack 1 tap per tap module
Fiber Specs	50/125µm OM4; 850nm Supports speeds of 4x10G, 4x25G, 40G, and 100G, for SR4 model Supports speeds of 10x10G and 100G for SR10 model
Connectors	Network Ports: 2 x MTP (MPO); 12 Fiber (SR4) or 24 Fiber (SR10) Monitoring Ports: 1 x MTP (MPO); 12 Fiber (SR4) or 24 Fiber (SR10)

Specifications	
Operating	<ul style="list-style-type: none"> Operating Temperature: 0° to 40°C Storage Temperature: -10° to 70°C Relative Humidity: 10% min, 95% max, non-condensing
Mechanical	Standard Rack Dimensions: 1.7" High x 8.4" Deep x 19" Wide Mini Rack Dimensions: 1.7" High x 8.4" Deep x 5.7" Wide
Certifications	<ul style="list-style-type: none"> Fully RoHS-compliant Safety Certifications: UL, CSA, CB

Ordering Information and Insertion Losses

Model/ Conn.	Type/ Diameter (um)	Taps in 1U	Speed Gbps	Optical Standards	Split Ratio/ Part Numbers	Insertion Loss Net.-Net./ Net.-Mon.	Y Cable Kits to Use
Std LC	SM 8.5um	1-24	1 10 25 40 100 400	LX LR LR4 ELR4 ER CWDM4 FR-4	50/50: TP-100-LR-85-50 60/40: TP-100-LR-85-60 70/30: TP-100-LR-85-70 80/20: TP-100-LR-85-80 90/10: TP-100-LR 85-90	3.7 dB/3.7dB 2.8 dB/4.8 dB 2.0 dB/6.1 dB 1.3 dB/8.0 dB 0.8 dB/12.0 dB	705-0014-001
Std LC	MM 50um	1-24	1	SX	50/50: TP-1-SX-50-50 60/40: TP-1-SX-50-60 70/30: TP-1-SX-50-70 80/20: TP-1-SX-50-80 90/10: TP-1-SX-50-90	4.5 dB/4.5 dB 3.1 dB/5.1 dB 2.4 dB/6.3 dB 1.8 dB/8.1 dB 1.3 dB/11.5 dB	705-0012-001
Std LC	MM 50um	1-24	1 10 25 50	SR	50/50: TPX-10-SR-50-50 60/40: TPX-10-SR-50-60 70/30: TPX-10-SR-50-70 80/20: TPX-10-SR-50-80	3.9 dB/3.9 dB 2.9 dB/4.9 dB 2.2 dB/6.1 dB 1.6 dB/7.9 dB	705-0012-001
Std LC	MM 50um	1-24	40	LX4	70/30: TP-40-SR-50-70-MR4	2.4 dB/6.3dB	705-0012-001
Cisco BiDi	MM 50um	1-12	40 100	BiDi	50/50: TPX-40-SR-50-50-BD	4.1 dB/4.1 dB	Use standard LC duplex
Std MTP	MM 50um	1-12	10 25 40 100	SR4	50/50: TPX-40-SR-50-50-MTP 70/30: TPX-40-SR-50-70-MTP	4.4 dB/4.4 dB 2.6 dB/6.6 dB	Included with tap MTP Y cable (8 strands - 4 each leg) for monitor ports.
Std MTP	MM 50um	1-12	100	SR10	50/50: TPX-100-SR-50-50-MTP 70/30: TPX-100-SR-50-70-MTP	4.4 dB/4.4 dB 2.6 dB/6.6 dB	Included with tap MTP Y cable (24 strands - 12 each leg) for monitor ports
Std MTP	SM 8.5um	1-12	40 100	PSM4 PLR4	70/30: TP-PSM4-85-70-MTP	2.6 dB/6.4 dB	MTP-SM-Y-CBL
Secure+	SM 8.5um	1-24	1 10 25 40 100 400	LX LR LR4 ELR4 ER CWDM4 FR-4	50/50: TPS-100-LR-85-50	3.7 dB/4.5 dB	705-0014-001
VHD LC	SM 8.5um	1-36	1 10 25 40 100 400	LX LR LR4 ELR4 ER CWDM4 FR-4	50/50: TPVHD-100-LR-85-50 60/40: TPVHD-100-LR-85-60 70/30: TPVHD-100-LR-85-70	3.7 dB/3.7dB 2.8 dB/4.8 dB 2.0 dB/6.1 dB	705-0014-001 x 3
VHD LC	MM 50um	1-36	1 10 25		50/50: TPVHD-10-SR-50-50 60/40: TPVHD-10-SR-50-60 70/30: TPVHD-10-SR-50-70	3.9 dB /3.9 dB 2.9 dB/4.9 dB 2.2 dB /6.1 dB	705-0012-001 x 3

Table Notes:

Y cable kits for LC taps contain 2 x network and 1 x Y cables

All insertion losses include one pair of connector losses

MM = Multi-mode SM = Single-mode

LX4 Tap is a multi-mode tap operating at 1310nm. All other multi-mode taps operate at 850nm nominal wavelength. All single-mode taps operate at 1310nm/1550nm nominal wavelengths

Secure+ contains optical diode to prevent light being injected back into a network link. Isolation >35dB

Specific Taps can also be used for Inverse Split ratio requirements with proper external cabling (Please contact Account/Solutions team for details).

Bundles

Flex Tap bundles include a rack mount chassis (RK-FLEX-24), Flex Taps and (where specified) spacer modules.

Part Number	Included Taps	# of Taps	# of Spacers	# Rack Chassis (RK-FLEX-24)	# Rack Chassis (RK-FLEX-24-ID)
TP-PACK-8-MM50	TPX-10-SR-50-50	8	0	1	0
TP-PACK-8-MM70	TPX-10-SR-50-70	8	0	1	0
TP-PACK-8-SM50	TP-100-LR-85-50	8	0	1	0
TP-PACK-8-SM70	TP-100-LR-85-70	8	0	1	0
TP-PACK-16-MM50	TPX-10-SR-50-50	16	8	1	0
TP-PACK-16-MM70	TPX-10-SR-50-70	16	8	1	0
TP-PACK-16-SM50	TP-100-LR-85-50	16	8	1	0
TP-PACK-16-SM70	TP-100-LR-85-70	16	8	1	0
TP-PACK-24-MM50	TPX-10-SR-50-50	24	0	1	0
TP-PACK-24-MM70	TPX-10-SR-50-70	24	0	1	0
TP-PACK-24-SM50	TP-100-LR-85-50	24	0	1	0
TP-PACK-24-SM70	TP-100-LR-85-70	24	0	1	0
TP-SR4-PACK-8-MM50	TPX-40-SR-50-50-MTP	8	0	1	0
TP-SR4-PACK-8-MM70	TPX-40-SR-50-70-MTP	8	0	1	0
TP-SR4-PACK8-MM70-ID	TPX-40-SR-50-70-MTP	8	0	0	1

Part details and Description

Part no.	Description
TP-100-LR-85-50	Ixia Flex Tap, Fiber, 1-400G, LR, 8.5um, LC, 50/50 (955-0250)
TP-100-LR-85-60	Ixia Flex Tap, Fiber, 1-400G, LR, 8.5um, LC, 60/40 (955-0251)
TP-100-LR-85-70	Ixia Flex Tap, Fiber, 1-400G, LR, 8.5um, LC, 70/30 (955-0252)
TP-100-LR-85-80	Ixia Flex Tap, Fiber, 1-400G, LR, 8.5um, LC, 80/20 (955-0253)
TP-100-LR-85-90	Ixia Flex Tap, Fiber, 1-400G, LR, 8.5um, LC, 90/10 (955-0254)
TPS-100-LR-85-50	Ixia Flex Tap Secure+, 1-400G, LR, 8.5um, 50/50 (955-0255)
TP-PSM4-85-70-MTP	IXIA Flex Tap, Fiber, 1G-400G, PSM4, 8.5um, MTP, 70/30 (955-0777)
TP-1-SX-50-50	IXIA Flex Tap, Fiber, 1G, SX, 50um, LC, 50/50. (955-0050)
TP-1-SX-50-60	IXIA Flex Tap, Fiber, 1G, SX, 50um, LC, 60/40. (955-0051)
TP-1-SX-50-70	IXIA Flex Tap, Fiber, 1G, SX, 50um, LC, 70/30. (955-0053)
TP-1-SX-50-80	IXIA Flex Tap, Fiber, 1G, SX, 50um, LC, 80/20. (955-0054)
TP-1-SX-50-90	IXIA Flex Tap, Fiber, 1G, SX, 50um, LC, 90/10. (955-0055)
TPX-10-SR-50-50	Ixia Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 50/50 (955-0163)
TPX-10-SR-50-60	Ixia Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 60/40 (955-0164)
TPX-10-SR-50-70	Ixia Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 70/30 (955-0165)
TPX-10-SR-50-80	Ixia Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 80/20 (955-0166)
TPVHD-100-LR-85-50	Ixia Flex Tap VHD, Fiber, 1-400G, LR/LX, 8.5um, LC, 50/50 (955-0763)
TPVHD-100-LR-85-60	Ixia Flex Tap VHD, Fiber, 1-400G, LR/LX, 8.5um, LC, 60/40 (955-0764)
TPVHD-100-LR-85-70	Ixia Flex Tap VHD, Fiber, 1-400G, LR/LX, 8.5um, LC, 70/30 (955-0765)
TPVHD-10-SR-50-50	IXIA Flex Tap VHD, 25G/10G/1G, SR/SX, 50um, 50/50. (955-0760)
TPVHD-10-SR-50-60	IXIA Flex Tap VHD, 25G/10G/1G, SR/SX, 50um, 60/40. (955-0761)
TPVHD-10-SR-50-70	IXIA Flex Tap VHD, 25G/10G/1G, SR/SX, 50um, 70/30. (955-0762)
TPX-40-SR-50-50-MTP	Ixia, Flex Tap, fiber, multi-mode 100G/40G/4x10G, SR4, 50um, MTP, 50/50 (955-0181)
TPX-40-SR-50-70-MTP	Ixia, Flex Tap, fiber, multi-mode 100G/40G/4x10G, SR4, 50um, MTP, 70/30 (955-0182)
TPX-100-SR-50-70-MTP	IXIA Flex Tap, Fiber, 100G/12x10G, SR10, 50um, MTP, 70/30. (955-0201)
TPX-100-SR-50-50-MTP	Ixia Flex Tap, Fiber, 100G/12x10G, SR10, 50um, MTP, 50/50 (955-0200) (TPX-100-SR-50-50-MTP)
TP-40-SR-50-70-MR4	Ixia Flex Tap, Fiber, 40G, SR, 50um, 1300nm Multimode WDM, LC, 70/30. Supports MR4, QSFP+ 40G-LX4 (955-0751) (TP-40-SR-50-70-MR4)
TPX-40-SR-50-50-BD	Ixia Flex Tap, fiber, multi-mode 40G/100G, SR, 50um, LC, 50/50, Cisco BiDi (955-0183)

TP-PACK-8-MM50	Ixia Partially populated Flex Tap rack along with 8 TPX-10-SR-50-50, 1G/10G/25G/50G, MM 50/50. (955-8301)
TP-PACK-8-MM70	Ixia Partially populated Flex Tap rack along with 8 TPX-10-SR-50-70 Flex Taps. (955-8302)
TP-PACK-8-SM50	Ixia Partially populated Flex Tap rack along with 8 TP-100-LR-85-50 Flex Taps. (955-8303)
TP-PACK-8-SM70	Ixia Partially populated Flex Tap rack along with 8 TP-100-LR-85-70 Flex Taps. (955-8304)
TP-PACK-16-MM50	Ixia Partially populated Flex Tap rack along with 16 TPX-10-SR-50-50 Flex taps plus 8 RK-FLEX-SPACER units. (955-0752)
TP-PACK-16-MM70	Ixia Partially populated Flex Tap rack along with 16 TPX-10-SR-50-70 Flex Taps plus 8 RK-FLEX-SPACER units. (955-0753)
TP-PACK-16-SM50	Ixia Partially populated Flex Tap rack along with 16 TP-100-LR-85-50 Flex Taps plus 8 RK-FLEX-SPACER units. (955-0754)
TP-PACK-16-SM70	Ixia Partially populated Flex Tap rack along with 16 TP-100-LR-85-70 Flex Taps plus 8 RK-FLEX-SPACER units. (955-0755)
TP-SR4-PACK-8-MM50	IXIA Partially populated Flex Tap rack - (8) 40G/100G SR4 MM 50/50 (955-8305) (TP-SR4-PACK-8-MM50)
TP-SR4-PACK-8-MM70	IXIA Partially populated Flex Tap rack - (8) 40G/100G SR4 MM 70/30 (955-8306) (TP-SR4-PACK-8-MM70)
TP-SR4-PACK8-MM70-ID	Ixia Flex Tap rack, partially populated with (8) 40G/100G SR4 MM 70/30 Flex Taps (955-8315)
TP-PACK-24-MM50	Ixia Fully populated Flex Tap rack along with 24 TPX-10-SR-50-50 Flex Taps. (955-0756)
TP-PACK-24-MM70	Ixia Fully populated Flex Tap rack along with 24 TPX-10-SR-50-70 Flex Taps. (955-0757)
TP-PACK-24-SM50	Ixia Fully populated Flex Tap rack along with 24 TP-100-LR-85-50 Flex Taps. (955-0758)
TP-PACK-24-SM70	Ixia Fully populated Flex Tap rack along with 24 TP-100-LR-85-70 Flex Taps. (955-0759)
705-0012-001	IXIA Cable Assembly Kit, LC/LC, 1G/10G, MM, 50um
705-0013-001	IXIA Cable Assembly Kit, LC/LC 1G/10G, MM, 62.5um
705-0014-001	IXIA Cable Assembly Kit, LC/LC 1G/10G, SM, 8.5um
705-0015-001	IXIA Cable Assembly Kit, LC/SC 1G/10G, MM, 50um
705-0016-001	IXIA Cable Assembly Kit, LC/SC 1G/10G, MM, 62.5um
705-0017-001	IXIA Cable Assembly Kit, LC/SC 1G/10G, SM,8.5um
705-0027-001	IXIA Cable Assembly Kit, MTP/MTP, MM, OM4, 50um
CKT-LC-LC-50-OM4	IXIA Cable Assembly Kit, LC/LC, 1G/10G, MM, OM4, 50um (955-8116)
CKT-MTP-4LC-85-LR	Ixia Cable Breakout Kit, MTP to 4 LCs, SM, 8.5um, (955-8162)
CKT-MTP-4LC-50-OM4	IXIA Cable Kit, Breakout, 40G, MTP to 4 LCs, 50um, OM4 (955-8115) (CKT-MTP-4LC-50-OM4)

CKT-MTP-12LC-50-OM4	Ixia Cable Breakout Kit, MTP to 12 LCs, MM, 50um, OM4 (955-8117)
MTP-SM-Y-CBL	IXIA Cable, Fiber, Y-Cable, MTP(12) to 2xMTP(12), APC Female, SM, 8.5um, 3 Meter (955-8188)
MTP-MM-Y-CBL	IXIA Cable, Fiber, Y-Cable, MTP(12) to 2xMTP(12), UPC Female, MM, 50um, 3 Meter (955-8189)
RK-FLEX-24	IXIA Assembly, Rack, 24 Flex Tap. (955-8001)
RK-FLEX-8	IXIA Assembly, Flex Tap Mini Chassis (955-8009)
RK-FLEX-ID-24	IXIA Rack Mount Chassis for Flex Taps, 24 Slots, with Slot ID Labels. (955-8186)
RK-FLEX-SPACER	Ixia Spacer Unit, Flex Tap (955-8002)
RK-FLEX-24-T	Ixia, TAA compliant, 19 Flex Tap Rack - holds up to 24 single-wide Flex Taps (955-8307)
RK-FLEX-8-T	Ixia, TAA compliant, Mini Flex Tap Rack - holds up to 8 single-wide Flex Taps (955-8308)
RK-FLEX-ID-24-T	Ixia, TAA compliant, 19" Flex Tap Rack with slot ID labels - holds up to 24 single-wide Flex Taps (955-8309)
TP-100-LR-85-50-T	Ixia, TAA compliant, Flex Tap, fiber, singlemode 1-400G, LR, 8.5um, LC, 50/50 (955-0280)
TP-100-LR-85-60-T	Ixia, TAA compliant, Flex Tap, fiber, singlemode 1-400G, LR, 8.5um, LC, 60/40 (955-0281)
TP-100-LR-85-70-T	Ixia, TAA compliant, Flex Tap, fiber, singlemode 1-400G, LR, 8.5um, LC, 70/30 (955-0282)
TP-100-LR-85-80-T	Ixia, TAA compliant, Flex Tap, fiber, singlemode 1-400G, LR, 8.5um, LC, 80/20 (955-0283)
TP-100-LR-85-90-T	Ixia, TAA compliant, Flex Tap, fiber, singlemode 1-400G, LR, 8.5um, LC, 90/10 (955-0284)
TPS-100-LR-85-50-T	Ixia, TAA compliant, Flex Tap Secure+, fiber, singlemode 1-400G, LR, 8.5um, LC, 50/50 (955-0285)
TPX-10-SR-50-50-T	Ixia, TAA compliant, Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 50/50 (955-8310)
TPX-10-SR-50-60-T	Ixia, TAA compliant, Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 60/40 (955-8311)
TPX-10-SR-50-70-T	Ixia, TAA compliant, Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 70/30 (955-8312)
TPX-10-SR-50-80-T	Ixia, TAA compliant, Flex Tap, fiber, multi-mode 1G/10G/25G/50G, SR, 50um, LC, 80/20 (955-8313)
TPX-40SR-50-50-MTP-T	Ixia, TAA compliant, Flex Tap, fiber, multi-mode 100G/40G/4x10G, SR4, 50um, MTP, 50/50 (955-0189)
TPX-40SR-50-70-MTP-T	Ixia, TAA compliant, Flex Tap, fiber, multi-mode 100G/40G/4x10G, SR4, 50um, MTP, 70/30 (955-0195)

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