

MTP/MPO Trunk Cable

IDEAL FOR DATA CENTER HIGH DENSITY CABLING SYSTEM

Designed for data center applications requiring quick infrastructure deployment such as main, horizontal, and zone distribution areas.



MTP/MPO Trunk Cable

MTP/MPO trunk multifiber cable assemblies facilitate rapid deployment of high density backbone cabling in data centers and other high fiber environments, reducing network installation or reconfiguration time and cost. They are used to interconnect cassettes, panels or ruggedized MTP/MPO fanouts, spanning MDA, HDA and EDA zones.

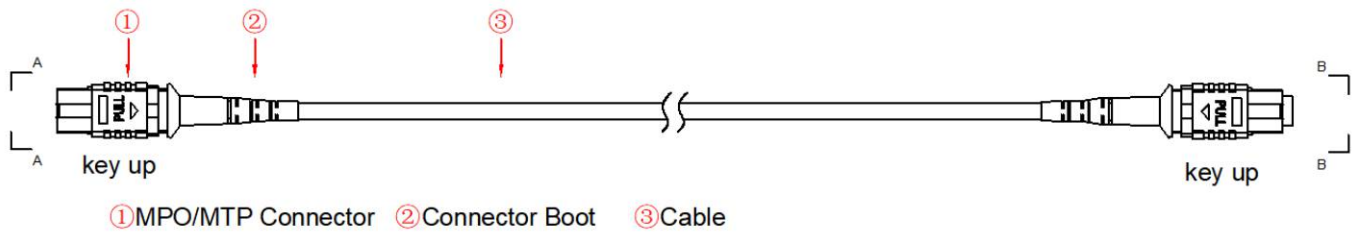
MTP/MPO Trunk Cable

- US Conec MTP® connector, Senko MPO Plus premium connector
- Corning Clearcurve® multimode fiber, SMF-28® Ultra optical fiber
- OS2, OM3, OM4 available
- 0.35dB elite low loss connector
- Factory terminated and tested
- Allow easy migration from 10GbE to 40GbE or 100GbE
- Pulling eyes are provided as an option to protect the fiber ends during installation

Standards Compliance

- ROHS, CE (EN 50575 CPR) and ISO9001 Compliant
- EIA/TIA, Telecordia GR-326-CORE Standards
- IEC61754-7
- TIA 605-4 (FOCIS 5)
- YD/T1272.5

Technical Specification



Construction (MPO/MTP)

Items	Description
Connector Type	MTP Female, Male; MPO Female, Male
Connector Brand	US Conec MTP, Senko MPO
Connector color	OS2: Green OM4/OM3: Aqua
Connectors Boots	Black
Fiber Count	4~32 Fibers
Fiber Mode	Single mode: OS2 9/125μm Multimode: OM4 50/125μm, OM3 50/125μm
Fiber Brand	Corning ClearCurve® multimode fiber and SMF-28® Ultra optical fiber
Cable Type	Bunch
Cable Color	OS2: Yellow OM4: Magenta OM3: Aqua
Cable Jacket Material	Plenum (OFNP) /Low Smoke Zero Halogen (LSZH) /Riser (PVC)
Cable Diameter	3.0±0.2 mm
Polarity	Type A / Type B / Type C

Optical performance (MPO/MTP)

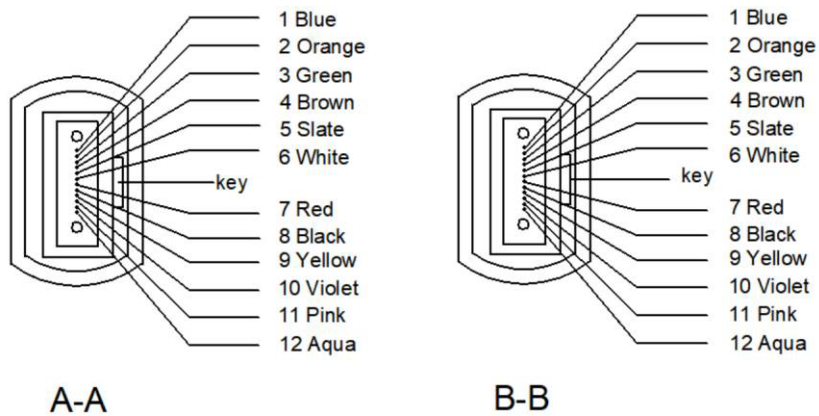
Type		Unit	Description			
MPO/MTP connector		--	Standard SM MT	Low Loss(Elite)SM MT	Standard MM MT	Low Loss(Elite)MM MT
Insertion Loss		(dB)	0.35	0.20	0.35	0.20
Return Loss	Typical	(dB)	0.75	0.35	0.60	0.35
	Max	(dB)	APC ≥ 60, PC ≥ 50		≥ 20 for PC	
M/F		--	Male:With Pins Female:Without Pins			
Wavelength		(nm)	Single Mode: 1310/1550 Multimode: 850/1300			
Transmission Distance		—	OM4: 150m at 40/100G, 400m at 10G OM3: 100m at 40/100G, 300m at 10G			

Geometry parameters

Type	Unit	Description	
		Single Mode	Multi-mode
Radius of curvature X	(mm)	Min 2000	Min 2000
Radius of curvature Y	(mm)	Min 5	Min 5
Fiber Height	(nm)	1000~3500	1000~3500
Max.Diff.Height All	(nm)	Max 50	Max 50
Max.Diff.Height AdjI	(nm)	Max 300	Max 300
Tilt Angle X	(°)	-0.2~+0.2	-0.2~+0.2
Tilt Angle Y	(°)	PC:-0.2~+0.2;APC:7.8~8.2	-0.2~+0.2
Core Dip	(nm)	N/A	-100~+200

Polarity (12 Fibers)

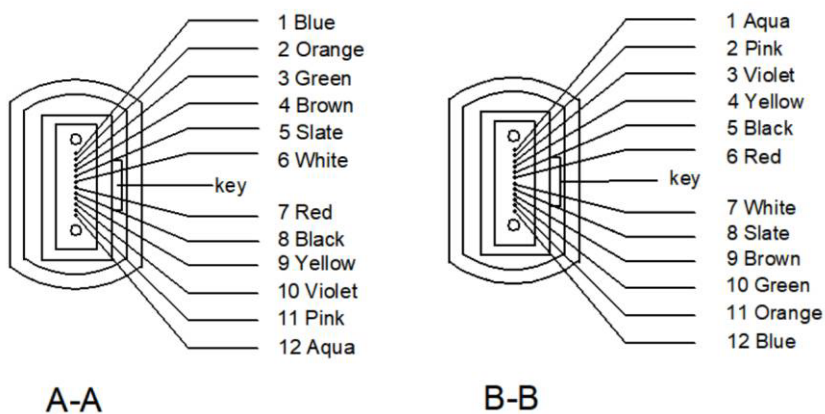
Type A



Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)
Blue	Channel 1	Channel 1
Orange	Channel 2	Channel 2
Green	Channel 3	Channel 3
Brown	Channel 4	Channel 4
Slate	Channel 5	Channel 5
White	Channel 6	Channel 6
Red	Channel 7	Channel 7
Black	Channel 8	Channel 8
Yellow	Channel 9	Channel 9
Violet	Channel 10	Channel 10
Pink	Channel 11	Channel 11
Aqua	Channel 12	Channel 12

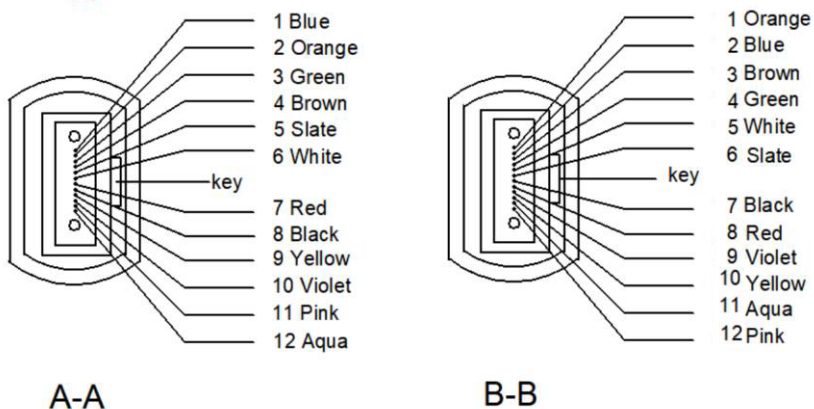
Type B



Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)
Blue	Channel 1	Channel 12
Orange	Channel 2	Channel 11
Green	Channel 3	Channel 10
Brown	Channel 4	Channel 9
Slate	Channel 5	Channel 8
White	Channel 6	Channel 7
Red	Channel 7	Channel 6
Black	Channel 8	Channel 5
Yellow	Channel 9	Channel 4
Violet	Channel 10	Channel 3
Pink	Channel 11	Channel 2
Aqua	Channel 12	Channel 1

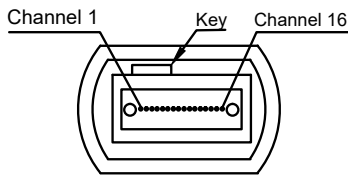
Type C



Fiber Chart

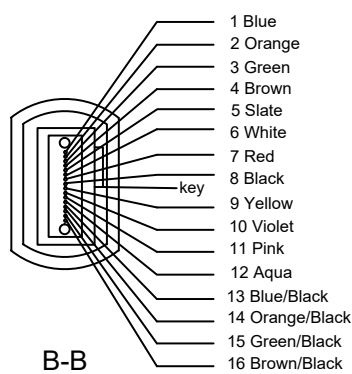
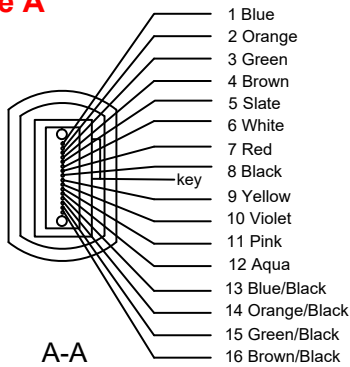
250um Fiber Colors	Side A (Top)	Side B (Bottom)
Blue	Channel 1	Channel 2
Orange	Channel 2	Channel 1
Green	Channel 3	Channel 4
Brown	Channel 4	Channel 3
Slate	Channel 5	Channel 6
White	Channel 6	Channel 5
Red	Channel 7	Channel 8
Black	Channel 8	Channel 7
Yellow	Channel 9	Channel 10
Violet	Channel 10	Channel 9
Pink	Channel 11	Channel 12
Aqua	Channel 12	Channel 11

Polarity (16 Fibers)



16F MPO Channel Definition (A&B Front View)

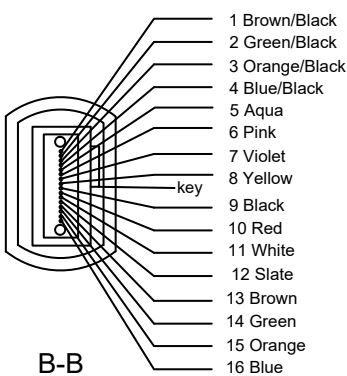
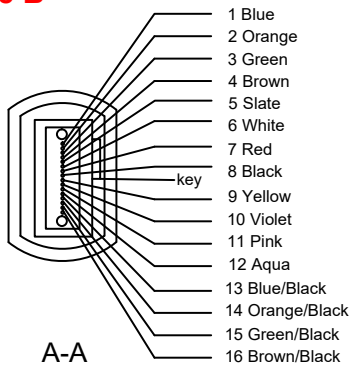
Type A



Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)
Blue	Channel 1	Channel 1
Orange	Channel 2	Channel 2
Green	Channel 3	Channel 3
Brown	Channel 4	Channel 4
Slate	Channel 5	Channel 5
White	Channel 6	Channel 6
Red	Channel 7	Channel 7
Black	Channel 8	Channel 8
Yellow	Channel 9	Channel 9
Violet	Channel 10	Channel 10
Pink	Channel 11	Channel 11
Aqua	Channel 12	Channel 12
Blue/Black	Channel 13	Channel 13
Orange/Black	Channel 14	Channel 14
Green/Black	Channel 15	Channel 15
Brown/Black	Channel 16	Channel 16

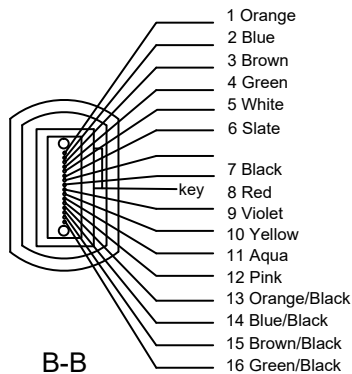
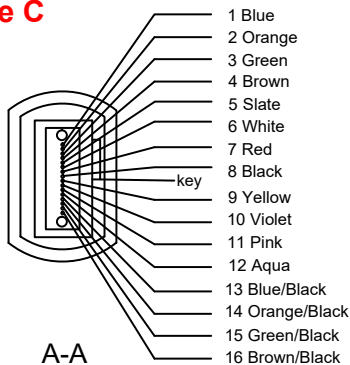
Type B



Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)
Blue	Channel 1	Channel 16
Orange	Channel 2	Channel 15
Green	Channel 3	Channel 14
Brown	Channel 4	Channel 13
Slate	Channel 5	Channel 12
White	Channel 6	Channel 11
Red	Channel 7	Channel 10
Black	Channel 8	Channel 9
Yellow	Channel 9	Channel 8
Violet	Channel 10	Channel 7
Pink	Channel 11	Channel 6
Aqua	Channel 12	Channel 5
Blue/Black	Channel 13	Channel 4
Orange/Black	Channel 14	Channel 3
Green/Black	Channel 15	Channel 2
Brown/Black	Channel 16	Channel 1

Type C

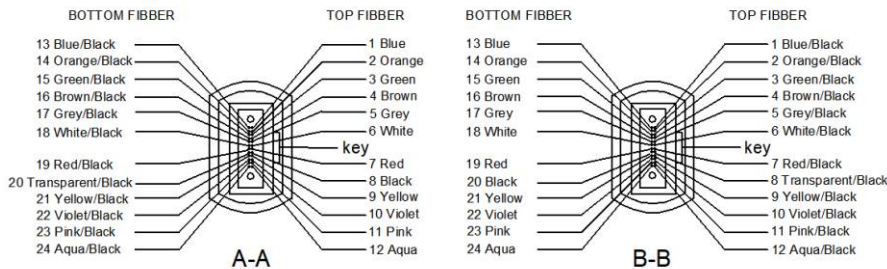


Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)
Blue	Channel 1	Channel 2
Orange	Channel 2	Channel 1
Green	Channel 3	Channel 4
Brown	Channel 4	Channel 3
Slate	Channel 5	Channel 6
White	Channel 6	Channel 5
Red	Channel 7	Channel 8
Black	Channel 8	Channel 7
Yellow	Channel 9	Channel 10
Violet	Channel 10	Channel 9
Pink	Channel 11	Channel 12
Aqua	Channel 12	Channel 11
Blue/Black	Channel 13	Channel 14
Orange/Black	Channel 14	Channel 13
Green/Black	Channel 15	Channel 16
Brown/Black	Channel 16	Channel 15

Polarity (24 Fibers)

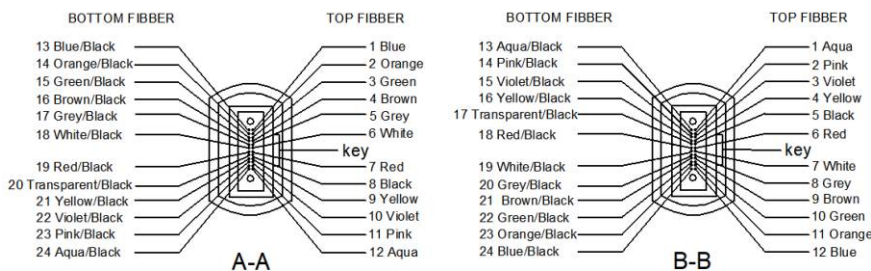
Type A



Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)	250um Fiber Colors	Side A (Bottom)	Side B (Top)
Blue	Channel 1	Channel 13	Blue/Black	Channel 13	Channel 1
Orange	Channel 2	Channel 14	Orange/Black	Channel 14	Channel 2
Green	Channel 3	Channel 15	Green/Black	Channel 15	Channel 3
Brown	Channel 4	Channel 16	Brown/Black	Channel 16	Channel 4
Slate	Channel 5	Channel 17	Slate/Black	Channel 17	Channel 5
White	Channel 6	Channel 18	White/Black	Channel 18	Channel 6
Red	Channel 7	Channel 19	Red/Black	Channel 19	Channel 7
Black	Channel 8	Channel 20	Transparent/Black	Channel 20	Channel 8
Yellow	Channel 9	Channel 21	Yellow/Black	Channel 21	Channel 9
Violet	Channel 10	Channel 22	Violet/Black	Channel 22	Channel 10
Pink	Channel 11	Channel 23	Pink/Black	Channel 23	Channel 11
Aqua	Channel 12	Channel 24	Aqua/Black	Channel 24	Channel 12

Type B



Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)	250um Fiber Colors	Side A (Bottom)	Side B (Top)
Blue	Channel 1	Channel 12	Blue/Black	Channel 13	Channel 24
Orange	Channel 2	Channel 11	Orange/Black	Channel 14	Channel 23
Green	Channel 3	Channel 10	Green/Black	Channel 15	Channel 22
Brown	Channel 4	Channel 9	Brown/Black	Channel 16	Channel 21
Slate	Channel 5	Channel 8	Slate/Black	Channel 17	Channel 20
White	Channel 6	Channel 7	White/Black	Channel 18	Channel 19
Red	Channel 7	Channel 6	Red/Black	Channel 19	Channel 18
Black	Channel 8	Channel 5	Transparent/Black	Channel 20	Channel 17
Yellow	Channel 9	Channel 4	Yellow/Black	Channel 21	Channel 16
Violet	Channel 10	Channel 3	Violet/Black	Channel 22	Channel 15
Pink	Channel 11	Channel 2	Pink/Black	Channel 23	Channel 14
Aqua	Channel 12	Channel 1	Aqua/Black	Channel 24	Channel 13

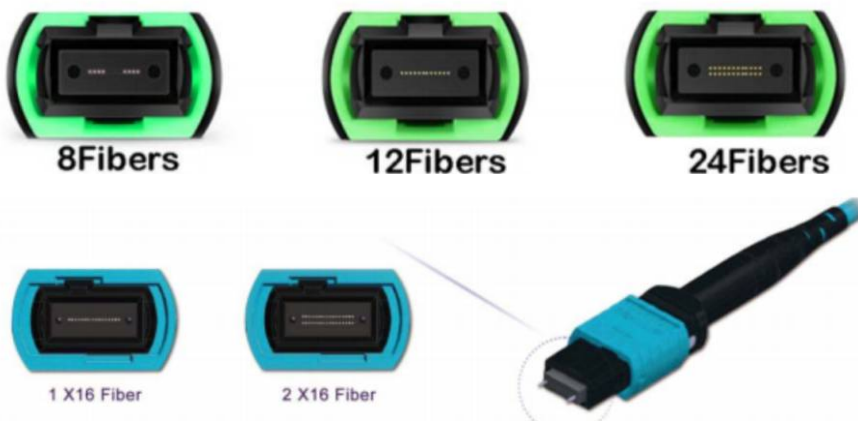
Type C



Fiber Chart

250um Fiber Colors	Side A (Top)	Side B (Bottom)	250um Fiber Colors	Side A (Bottom)	Side B (Top)
Blue	Channel 1	Channel 14	Blue/Black	Channel 13	Channel 2
Orange	Channel 2	Channel 13	Orange/Black	Channel 14	Channel 1
Green	Channel 3	Channel 16	Green/Black	Channel 15	Channel 4
Brown	Channel 4	Channel 15	Brown/Black	Channel 16	Channel 3
Slate	Channel 5	Channel 18	Slate/Black	Channel 17	Channel 6
White	Channel 6	Channel 17	White/Black	Channel 18	Channel 5
Red	Channel 7	Channel 20	Red/Black	Channel 19	Channel 8
Black	Channel 8	Channel 19	Transparent/Black	Channel 20	Channel 7
Yellow	Channel 9	Channel 22	Yellow/Black	Channel 21	Channel 10
Violet	Channel 10	Channel 21	Violet/Black	Channel 22	Channel 9
Pink	Channel 11	Channel 24	Pink/Black	Channel 23	Channel 12
Aqua	Channel 12	Channel 23	Aqua/Black	Channel 24	Channel 11

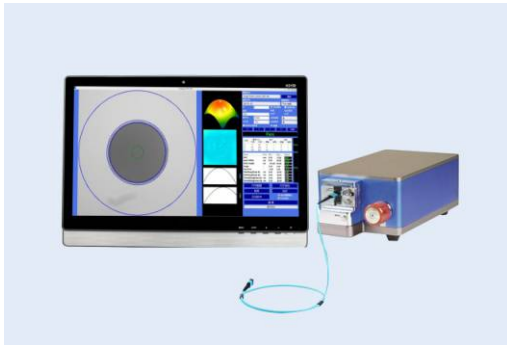
Connector view



est Center

Comprehensive performance testing system ensures more secure operation and keeps more stable and reliable data connection. 3D interferometer provides verification of MTP/MPO polishing process, and making all parameters of the polished MT ferrule complies and exceeds industry standards. Clean optical connectors are paramount in providing a reliable, high- performance fiber optic infrastructure.

Professional Test Equipment



3D Interferometer Test



End-Face Inspection



Insertion loss / return loss tester