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 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

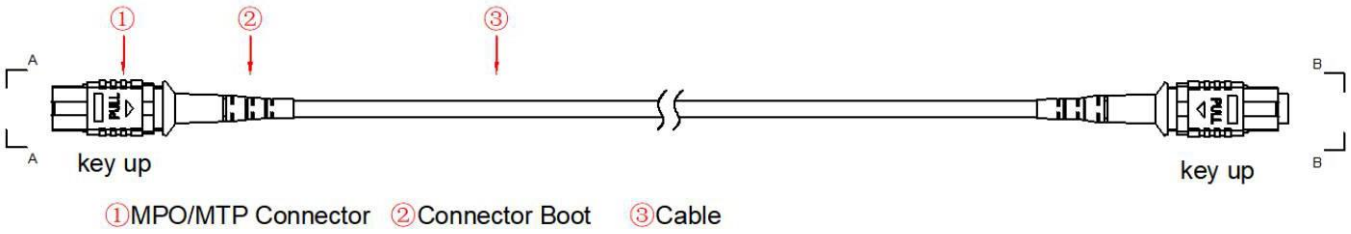
- US Conec MTP®connector, Senko MPO Plus premium connector
- Corning Clearcurve®multimode fiber, SMF-28®Ultra optical fiber
- OS2, OM3, OM4 available
- 0.35dB elite low loss connector
- Factory terminated and tested
- Allow easy migration from 10GbE to 40GbE or 100GbE
- Pulling eyes are provided as an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

Standards Compliance

- ROHS, CE (EN 50575 CPR) and ISO9001 Compliant
- EIA/TIA, Telecocordia GR-326-CORE Standards
- IEC61754-7
- TIA 605-4 (FOCIS 5)
- YD/Tl 272.5

b

Technical Specification



Construction (MPO/MTP)

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	4~72 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	Trunk
Cable Color	OS2:Yellow OM4: Magenta OM3: Aqua
Cable Jacket Material	Plenum (OFNP) /Low Smoke Zero Halogen (LSZH) /Riser (OFNR)
Cable Diameter	3.0±0.2 mm
Polarity	Type A /Type B /Type C

Optical performance (MPO/MTP)

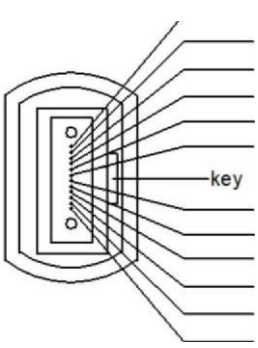
MPO/MTP connector			Standard SM MT	Low Loss(Elite)SM MT	Standard MM MT	Low Loss(Elite)MM MT
Insertion Loss	**Typical**	(dB)	0.35	0.20	0.35	0.20
	Max	(dB)	0.75	0.35	0.60	0.35
Retumloss		(dB)	APC>60, PC>S0		>20for PC	
M/F			Male:With Pins Female:Without Pins			
Wavelength		(nm)	Single Mode: 1310/1550 Multimode: 850/1300			
Transmission Distance			OM4: 150m at 40/100G, 550m at 10G OM3: 100m at 40/100G, 300m at 10G			

Geometry parameters

		Single Mode	Multi-mode
Radius of curvature X	(mm)	Min2000	Min 2000
Radius of curvature Y	(mm)	Mins	Mins
Fiber Height	(nm)	1000~3500	1000~3500
Max.Diff.Height All	(nm)	Max SO	Max SO
Max.Diff.Height Adjl	(nm)	Max300	Max300
TiltAngleX	(0)	-0.2~+0.2	-0.2~+0.2
TiltAngleY	(0)	PC:-0.2~+0.2;APC:7.8~8.2	-0.2~+0.2
Core Dip	(nm)	N/A	-100~+200

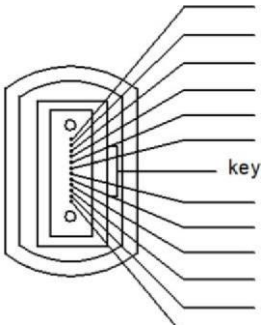
Polarity (12 Fibers)

Type A



1 Blue
2 Orange
3 Green
4 Brown
5 Slate
6White
7 Red
8 Black
9 Yellow
10 Violet
11 Pink
12Aqua

A-A



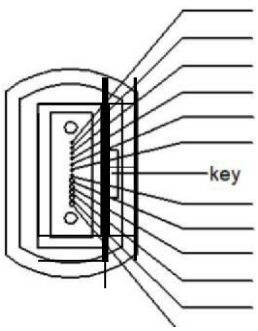
1 Blue
2 Orange
3 Green
4 Brown
5 Slate
6White
7 Red
8 Black
9Yellow
10 Violet
11 Pink
12Aqua

B-B

Fiber Chart

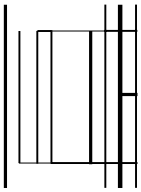
250um Fiber Colors	Side (Top)	SideB (Bottom)
Blue	Channel 1	Channel 1
Orange	Channel2	Channel 2
Green	Channel3	Channel 3
Brown	Channel4	Channel 4
Slate	Channels	Channel 5
White	Channel 6	Channel 6
Red	Channel?	Channel 7
Black	Channel8	Channel 8
Yellow	Channel9	Channel 9
Violet	Channel 10	Channel 10
Pink	Channel 11	Channel 11
Aqua	Channel 12	Channel 12

TypeB



1 Blue
2 Orange
3 Green
4 Brown
5Slate
6White
7 Red
8 Black
9 Yellow
10Violet
11 Pink
12Aqua

A-A



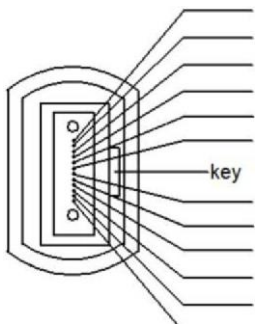
1 Aqua
2 Pink
3 Violet
4 Yellow
5 Black
6 Red
7 White
8 Slate
9 Brown
10 Green
11 Orange
12 Blue

B-B

Fiber Chart

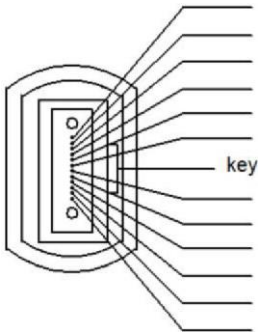
250um Fiber Colors	Side (fop)	SideB (Bottom)
Blue	Channel 1	Channel 12
Orange	Channel 2	Channel 11
Green	Channel 3	Channel 10
Brown	Channel 4	Channel9
Slate	Channel 5	Channel8
White	Channel 6	Channel 7
Red	Channel 7	Channel 6
Black	Channel 8	Channel5
Yellow	Channel 9	Channel 4
Violet	Channel 10	Channel3
Pink	Channel 11	Channel 2
Aqua	Channel 12	Channel 1

TypeC



1 Blue
2 Orange
3 Green
4 Brown
5 Slate
6White
7 Red
8 Black
g Yellow
10 Violet
11 Pink
12 Aqua

A-A



13 Orange
14 Blue
15 Brown
16 Green
17White
18 Slate
19 Black
20 Red
21 Violet
22 Yellow
23 Aqua
24 Pink

8-B

Fiber Chart

250Jm Fiber Colors	Side A (Top)	SldeB (Bottom)
Blue	Channel 1	Channel 2
Orange	Channel 2	Channel 1
Green	Channel 3	Channel4
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

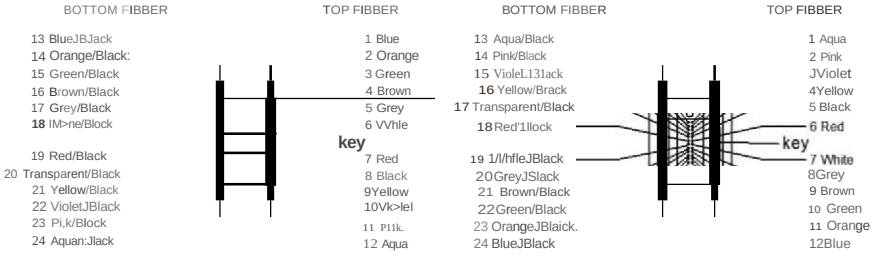
Polarity (24 Fibers)

Type A

Fiber Chart

50umFlber Colors	Side A 8'leB (Top)---(Bottom)		2SO u m F lber e O .. ,	Side A SideB (Bottom} (Top)	
Blue	Channel 1	Dloond 13	Blue/Black	Channel 13	Chamel 1
0-ange	Cllarnel2	O\annel 14	0-ooge!Black	Charv,el 14	Channel 2
Green	Ctiannel3	O\annel 15	Green/BLack	Channel 15	Channel 3
Bro-	CharTiel4	Channel 16	Browi/Black	Channel 16	Channel 4
Slate	CharTiel5	Channel 17	S\alelBlack	Channel 17	Channel 5
	Charnel6	Olannel 18	Wi1teJBlac.k,	Cmtnnel 18	Chanoel 6
Red	Chamel7	Channel 19	Red/Blrl	Channel 19	Chanr.e-17
Blade	Chamel8	Channel 20	Tran.-;parenllllade	Channel 20	Chaonel 8
Yellow	Ch::innel9	Oi.:imel21	YclowfBbck	Ch.::imel21	Chanoel 9
Violet	Channel 10	Channel 22	Violet/Blade	Channel 22	Channel 10
Pink	Ghaond 11	Channel 23	Pink/Black	Channel 23	Ghamel 11
Aqua	Charnel 12	Chaooel24	Aqua/Black	Channel 24	Chamel 12

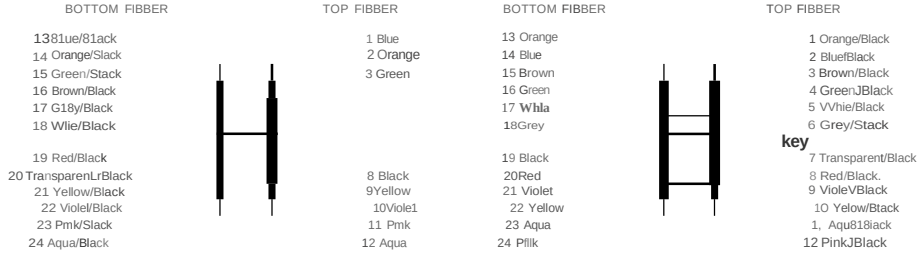
TypeB



Fiber Olan

50umFlber Colors	Side A (Top)---(Bottom) SideB		250.m Fiber Colors	Side A (Bott (Top) SideB	
Blue	Chamel1	0-.cfflcl 12	BWBlaci<	Channel 13	Charmel 24
Orange	Channel 2	Channel 11	Oange}Black	Channel 14	Channel 23
G,een	Channel 3	Oiamel 10	Green\'Black	Channel 15	Channet22
Brow,	Channel4	O,a,re 9	Bro'M\'Blad:	Channel 16	Challnel 21
Slale	Channel5		Slate/Black	Channel 17	Channel20
Wutc	Channel 6	O,a,re7	'MliteJBlack"	Channel 18	Channel 19
Red	Channel?	O,aMeJ 8	Red/Black	Channel 19	Channel 18
Black	Channel 8	Olannel5	Transparent/Ilack	Channel 20	Channel 17
Yellow	Channel 9	O,amel 4	Yellow/Blad!:	Channel 21	Chanr.el 16
Viole!	Channel 10	O,aMeJ3	Violet/Block	Channel 22	Channel 15
Pmk	Channel 11	Oiamel2	Pmk/Blaci<	Channel 2J	Channel 14
Aqua	Channel 12	O,onnel 1	Aqua,'Black	Channel 24	Channel 13

TypeC



Fiber Chart

Q50unFiber Colo<s	Sidc'1.__StdeB (Top) (Bottom}		250umFiber Colo<s	8'le_A S eB (Bottom)	(Top)
Bk>e	CflaiYlel1	ChalYlel 14	BJueJBlack	Charr.e! 13	Channel2
Orange	Channel 2	Chame(13	Dange/Black	Chamel 14	Chamell
G,e,n	Channel 3	Channef 16	Green/Black	Chamel 15	Channel4
ero-	Channel 4	ChalYlel 15	Bn.,1,11/Ilad	Chamell6	Channel 3
Sla1e	Channel 5	Chamel 18	Slate/Black	Chame!17	Chan!lel6
Vlhte	Channel 6	Chamel 17	Vlhte/Bladc	Chamell8	Channel 5
Red	Channel 7	Channel 20	Redl'Black	Chame!19	ChannelB
Black	Channel8	Chamel 19	TransparentJllack	Chamel20	Channell
Yellow	Chanrlel9	Cha 22	Yellow!Bl<tck	C nel21	Chamcl 10
Violet	Channel 10	Cha"liel21	Violet/Black	Charrie!22	Channel9
Pu	Ghamel 11	Ghamel 24	Pn!Black	Ghame!23	Chame! 12
Aqua	hanneJ12	Chamel 23	Aqua.tEbck	Chamel24	Channel 11

Connector view

8Fibers

12Fibers

24Fibers

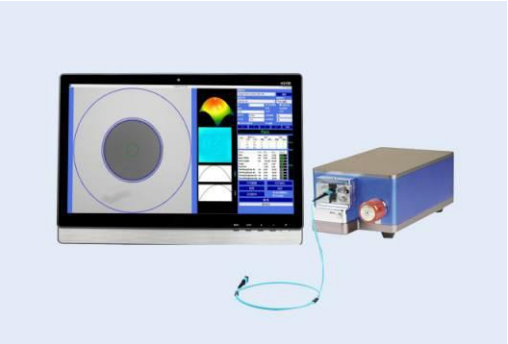
1 X18 Fiber

2 X16 Fiber

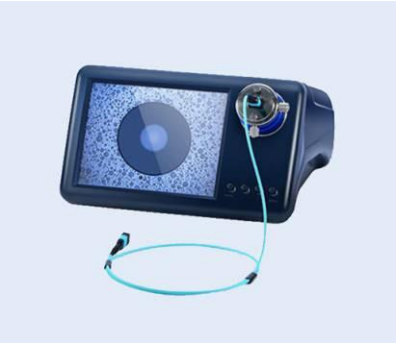
Testing Center

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 InterferometerTest



End-Face Inspection

Insertion loss/return loss tester