

ACT

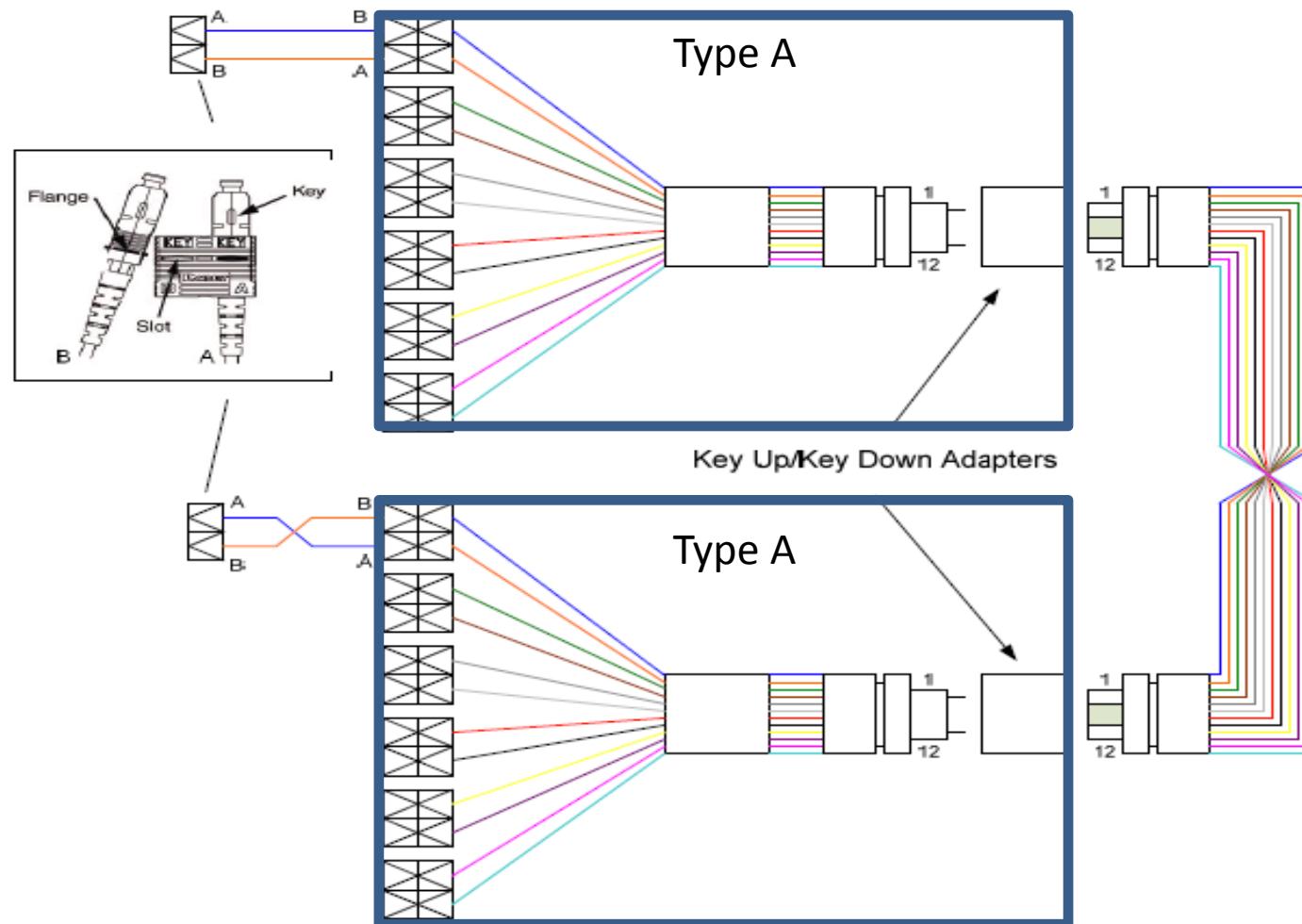


ACT

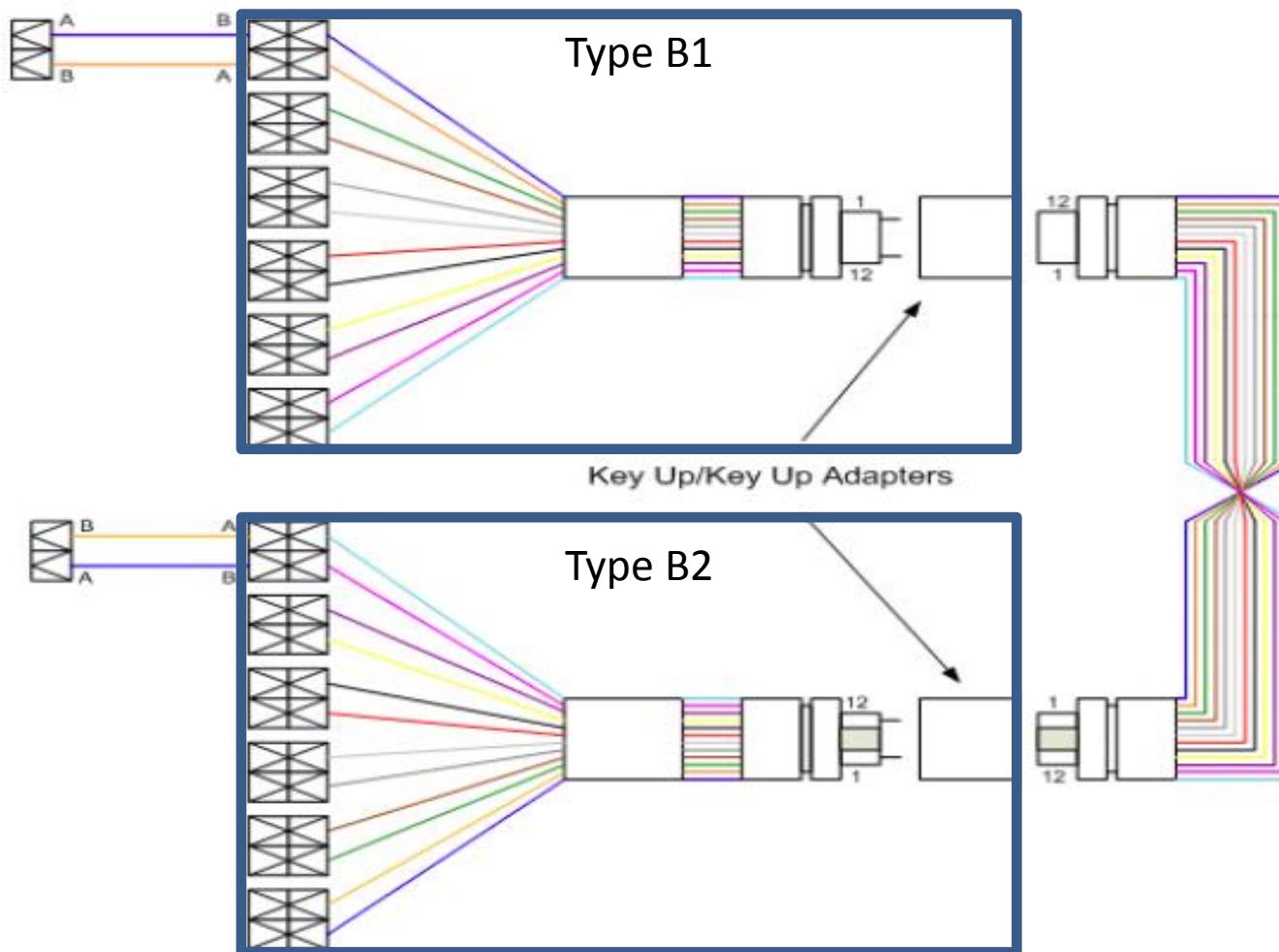
Fiber optic
Polarity



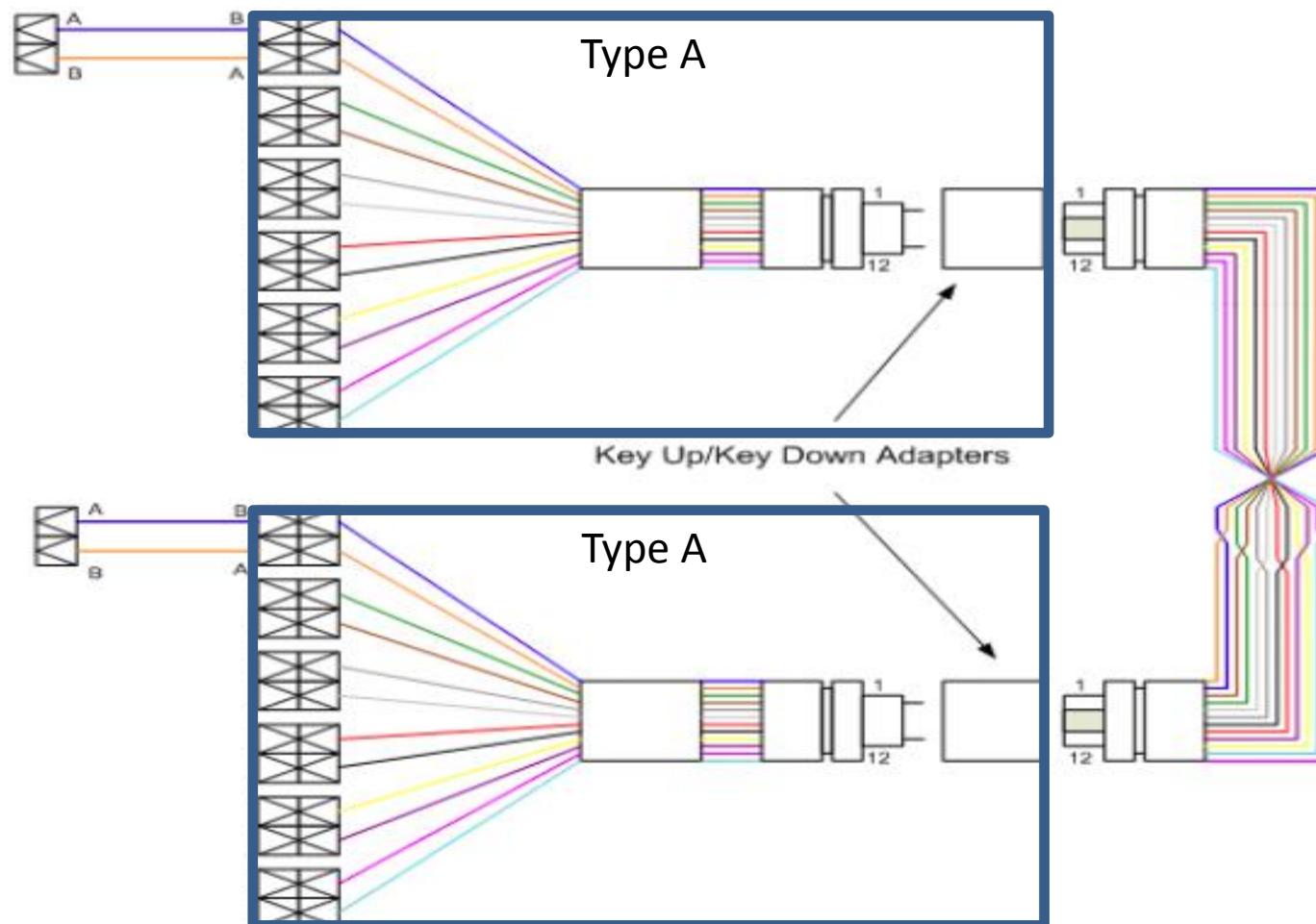
10G n 40G Migration – Polarity method A



10G n 40G Migration – Polarity method B



10G n 40G Migration – Polarity method C



10G and 40G Migration Table

TIA-568.C Standard (duplex signals)	Polarity Method	MPO/MTP® cable	MPO/MTP® Cassette	Duplex patch cable type
	A	Type A (Key-Up to Key-Down)	Type A (Opposed Key adaptor)	1 x A-to-B 1 x A-to-A
	B	Type B (Key-Up to Key-Up)	Type B1, B2 (Aligned Key adaptor)	2 x A-to-B
	C	Type C (Key-Up to Key-Down)	Type A (Opposed Key adaptor)	2 x A-to-B

Opposed Key



Aligned Key



A-to-A patch cord



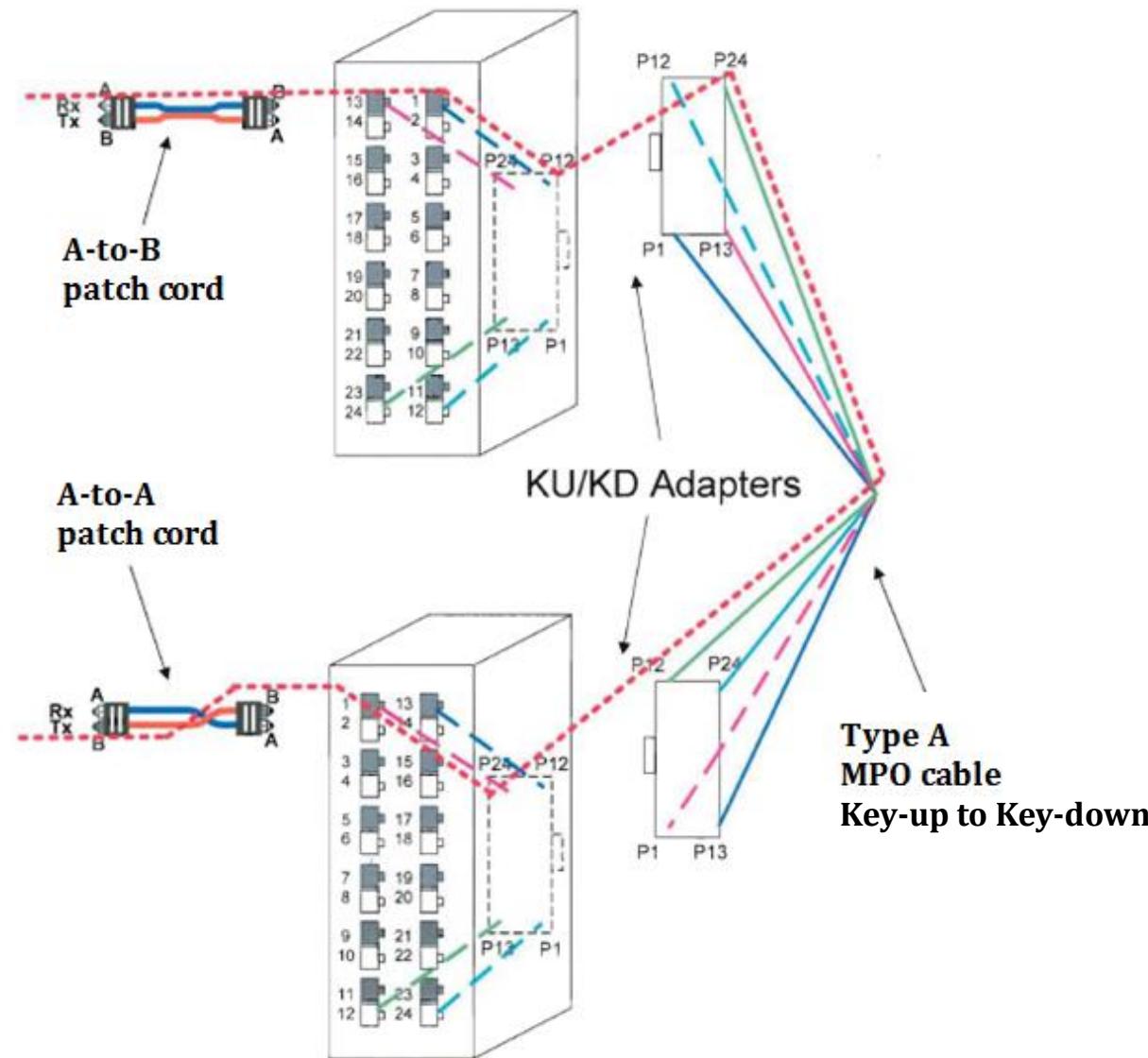
A-to-B patch cord



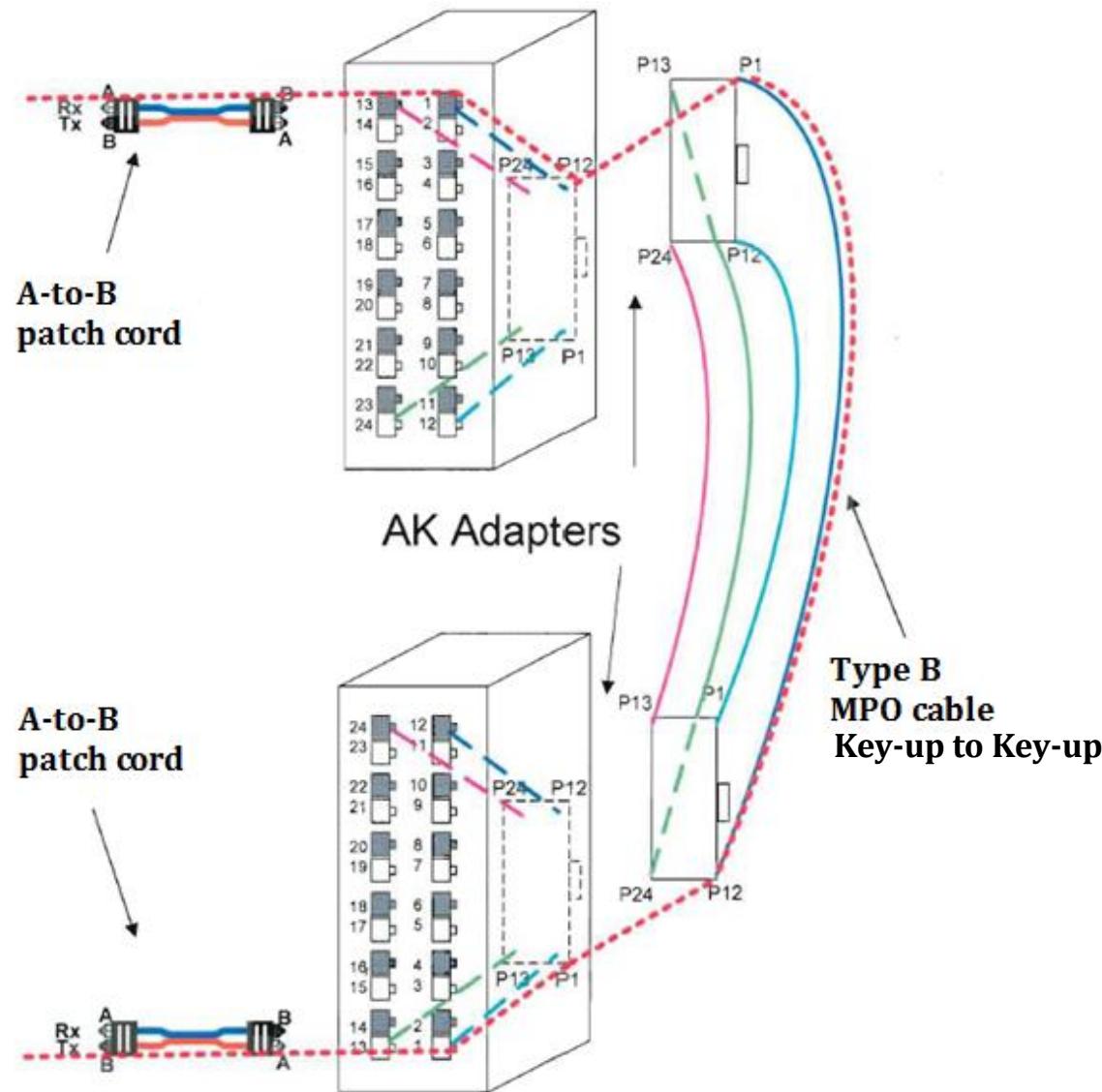
40G MPO/MTP® cable

Type A: Key-up to Key-down		Type B: Key-up to Key-up		Type C: Key-up to Key-down <i>Pair-wise Flip</i>	
Fibers	Fibers	Fibers	Fibers	Fibers	Fibers
1	1	1	12	1	2
2	2	2	11	2	1
3	3	3	10	3	4
4 Key-up	Key-down	4	9	4	3
5 Position 1	Position 1	5	8	5 Position 1	Position 1
6	6	6	7	6	5
7	7	7	6	7	8
8 Position 12	Position 12	8	5	8 Position 12	Position 12
9	9	9	4	9	10
10	10	10	3	10	9
11	11	11	2	11	12
12	12	12	1	12	11

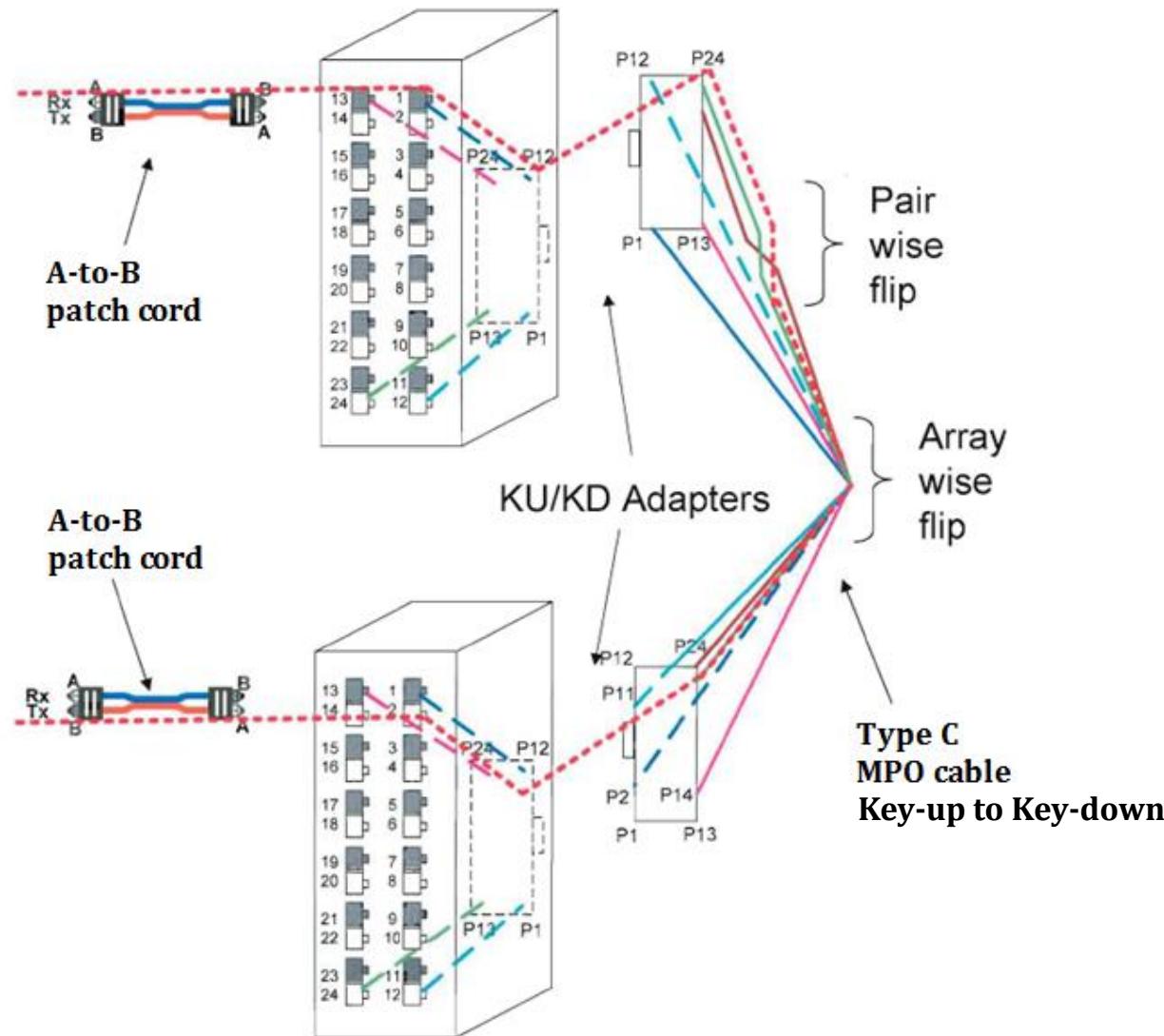
10G n 100G Migration – Polarity method A



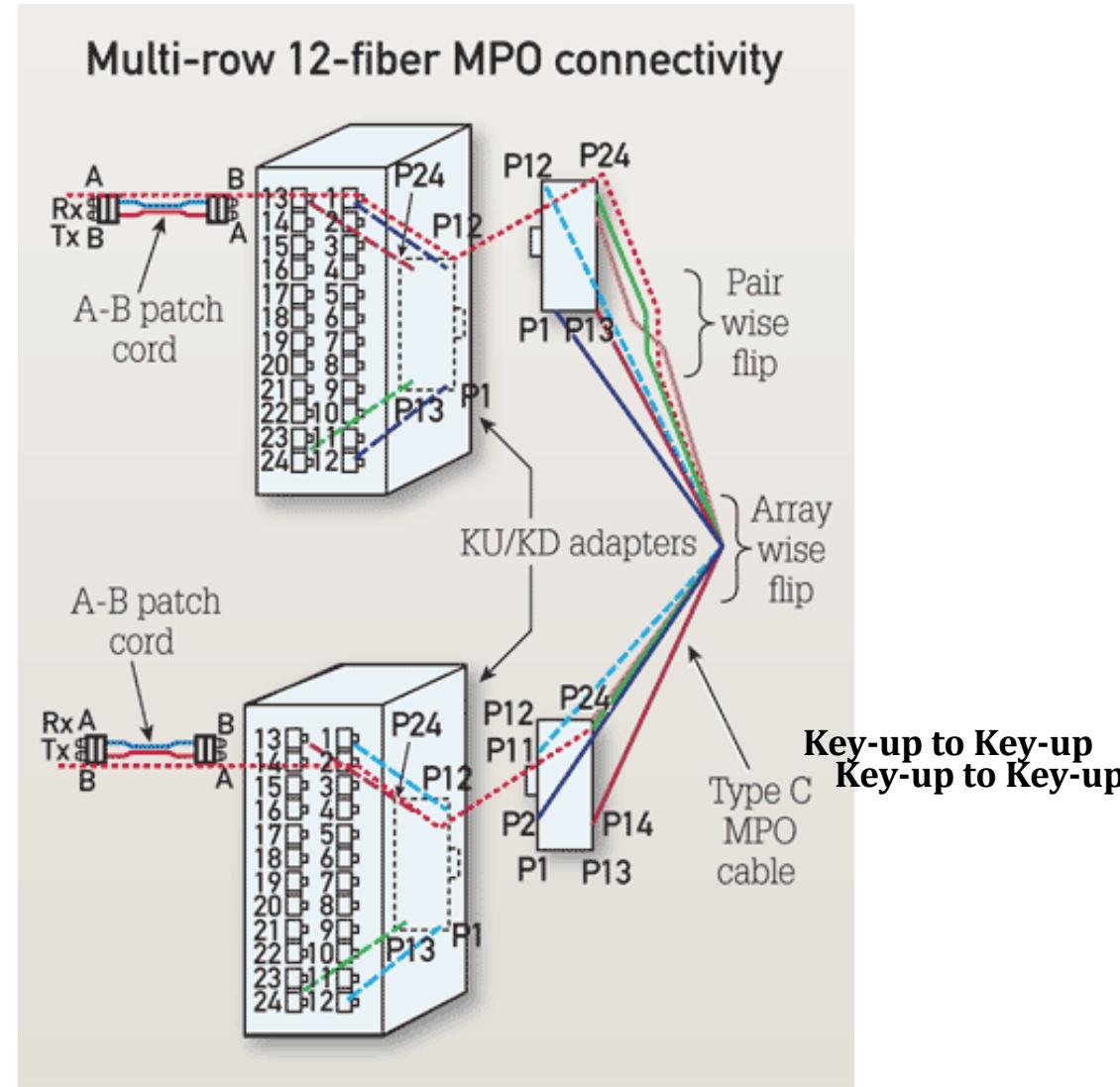
10G n 100G Migration – Polarity method B



10G n 100G Migration – Polarity method C



<http://www.cablinginstall.com/articles/print/volume-19/issue-3/features/maintaining-fiber-optic-polarity-with-array-cabling.html>



10G and 100G Migration Table

TIA-568.C Standard (duplex signals)	Polarity Method	MPO/MTP® cable	MPO/MTP® Cassette	Duplex patch cable type
	A	Type A (Key-Up to Key-Down)	Type A1, A2 (Opposed Key adaptor)	1 x A-to-B 1 x A-to-A
	B	Type B (Key-Up to Key-Up)	Type B1, B2 (Aligned Key adaptor)	2 x A-to-B
	C	Type C (Key-Up to Key-Down)	Type C (Opposed Key adaptor)	2 x A-to-B

Opposed Key



Aligned Key



A-to-A patch cord



A-to-B patch cord



100G MPO/MTP® cable wiring

Type A: Key-up to Key-down		Type B: Key-up to Key-up		Type C: Key-up to Key-down <i>Pair-wise Flip</i>	
Fibers	Fibers	Fibers	Fibers	Fibers	Fibers
1	13	1	24	1	14
2	14	2	23	2	13
3	15	3	22	3	16
4	16	4	21	4	15
5	17	5	20	5	18
6	18	6	19	6	17
7	19	7	18	7	20
8 Key-up	Key-down 20	8 Key-up	Key-up 17	8 Key-up	Key-down 19
9	21	9 Position	Position 16	9 Position	Position 22
10 Position	Position 22	10 1/13	Position 24/12	10 Position	Position 21
11 1/13	13/1	11 1/13	24/12	11 1/13	13/1
12	24	12	13	12	23
13	1	13	12	13	2
14 Position	Position 2	14 Position	Position 11	14 Position	Position 1
15 12/24	24/12	15 12/24	13/1	15 12/24	24/12
16	4	16	10	16	4
17	5	17	8	17	6
18	6	18	7	18	5
19	7	19	6	19	8
20	8	20	5	20	7
21	9	21	4	21	10
22	10	22	3	22	9
23	11	23	2	23	12
24	12	24	1	24	11