ADC Structured Cabling Solutions

Plug-and-Play Cassettes

Issue 2

ADC's Fibre Panels (TFP) combine the unique features of vertical cable guides and our patented angle-left/angle right adapters, which offers bend radius protection, intuitive routing and easy connector access. Our TFP series can be ordered in one, two, or five rack-unit sizes to fit your unique needs. Designed for rack or cabinet mounting in the horizontal or equipment distribution area, the TFP's modularity, functionality and density make them ideal for mounting in close proximity to servers, switches, routers and SANs.

The TFP's functionality can be extended with its plug-and-play angled cassettes, which add up to 24-fiber terminations each for jumper management in SANs-rich environments. These cassettes snap into place effortlessly; and even come from the factory pre-labelled with simple installation instructions.

Features:

- Eliminates the need for on-site fiber terminations, which means rapid deployments
- Incorporates angle left/angle right adapters to ensure proper bend radius
- Use the same 1, 2, and 5 rack unit standard TFP chassis, which simplifies ordering

SPEC SHEET

Polarity Made Simple

One of the most common questions regarding MPO deployments is how the system design addresses the polarity issue of the fibre. ADC's Structured Cabling® system employs the recommendations made in TIA standard TIA-568.B.1-7.

ADC's plug-and-play trunks use a key up/key down fibre array as noted in TIA-568.B.1-7, and the ADC's plug-and-play cassettes are wired straight through. In addition, the ADC duplex jumpers have a duplex clip that is easily removed for polarity changes in the field.

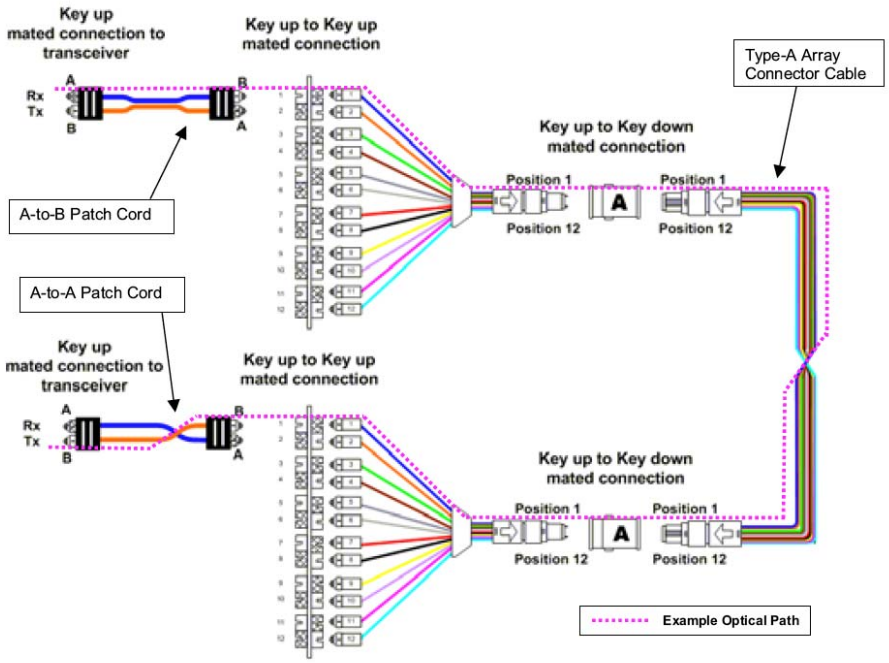


Figure 1: Connectivity Method A for Duplex Signals

Specifications

Panel Configurations

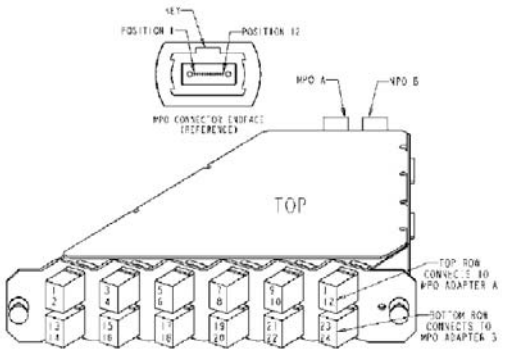
TFP Series chassis utilises modular adapter packs which are unique to either the right or left position of the chassis. The left / right position must be specified to ensure proper adapter orientation and colour order in the backplane. Information below illustrates the various configurations for the three TFP chassis.

1 RU Chassis	
MPL	MPR

2 RU Chassis	
MPL	MPR
MPL	MPR

5 RU Chassis	
MPL	MPR
MPL	MPR
MPL	MPR
MPL	MPR
MPL	MPR
MPL	MPR

MPL = angle left plug-and-play cassette
MPR = angle right plug-and-play cassette



Angle Left Polarity / Wiring Scheme

MPO – Fibre Position	LC Connector	Fibre Colour
MPO-1	LC-1 & LC-14	Blue
MPO-2	LC-2 & LC-13	Orange
MPO-3	LC-3 & LC-16	Green
MPO-4	LC-4 & LC-15	Brown
MPO-5	LC-5 & LC-18	Slate
MPO-6	LC-6 & LC-17	White
MPO-7	LC-7 & LC-20	Red
MPO-8	LC-8 & LC-19	Black
MPO-9	LC-9 & LC-22	Yellow
MPO-10	LC-10 & LC-21	Violet
MPO-11	LC-11 & LC-24	Rose
MPO-12	LC-12 & LC-23	Aqua

Angle Left Polarity / Wiring Scheme

MPO – Fibre Position	LC Connector	Fibre Colour
MPO-1	LC-1 & LC-13	Blue
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MPO-9	LC-9 & LC-21	Yellow
MPO-10	LC-10 & LC-22	Violet
MPO-11	LC-11 & LC-23	Rose
MPO-12	LC-12 & LC-24	Aqua

Plug-and-Play trunks

OPTICAL SPECIFICATIONS

	850nm	1310nm
Module Loss (measured through MPO mated pair to LC adapter)		
Insertion Loss		
Maximum	0.5 dB	1.0 dB
Typical	0.25 dB	0.4 dB
Return Loss		
Maximum	—	55 dB
Trunk Loss (per meter)		
Maximum	.0035 dB	.001 dB
Channel/Link Loss with 31 meter trunk (100feet) (as in figure above)		
Maximum	1.1085 dB	2.031 dB
Typical	0.6085 dB	0.831 dB

ENVIRONMENTAL CHARACTERISTICS

Storage Temperature: -40° to 70 °C (-40° to 158 °F)
Operating Temperature: 0° to 70 °C (-32° to 158 °F)
Installation Temperature: 0° to 70 °C (-32° to 158 °F)

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Plug-and-Play Cassettes

Ordering Information

Description	Product No.
Termination only rack or cabinet mount panel, black	
1 RU empty panel, black; accommodates 2 modular adapter packs; T-handle latch close	TFP-1UT00-000B
2 RU empty panel, black; accommodates 4 modular adapter packs; T-handle latch close	TFP-2UT00-000B
5 RU empty panel, black: accommodates 12 modular adapter packs; T-handle latch close	TFP-5TT00-000B
Plug-and-Play Cassette Pairs	
12-fibre cassettes; 6 LC (aqua) multimode adapters; 50/125 fibre laser optimised to 300 metres	
Angle **LEFT** cassette	TFP-12MPLDQ2
Angle **RIGHT** cassette	TFP-12MPRDQ2
24-fibre cassettes; 12 LC (aqua) multimode adapters; 50/125 fibre laser optimised to 300 metres	
Angle **LEFT** cassette	TFP-24MPLDQ2
Angle **RIGHT** cassette	TFP-24MPRDQ2
12-fibre cassettes; 6 LC singlemode adapters; singlemode fibre	
Angle **LEFT** cassette	TFP-12MPLSQ5
Angle **RIGHT** cassette	TFP-12MPRSQ5
24-fibre cassettes; 12 LC singlemode adapters; singlemode fibre	
Angle **LEFT** cassette TFP	24MPLSQ5
Angle **RIGHT** cassette TFP	24MPRSQ5

SPEC SHEET

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