

OPTICAL PATCH PANEL 1U/1,5U/2U

Alloptix supplies a series of universal patch panels produced in aluminium with high functionality for termination and splicing in 19" and ETSI racks. The patch panels are adjustable in depth and consists of a base with a pull-out drawer and replaceable adapter plates. The flexible construction gives a hassle-free work environment when there is need for upgrades, changes or expansions. An installation kit that ensures fast and safe administration of the optical fibers are included. The patch panels can be converted to ETSI standard mounting by turning the mounting brackets.



- Patch panel for x-connecting in telecommunications rooms
- Available in 3 different height: 1U, 1,5U and 2U
- Can be mounted in 19" or ETSI (metric) racks.
- Available with adapters, pigtails and factory fitted pre-terminated cable
- Wide range of accessories
- Sliding part with metal locking screw
- Installation kit and Fastening kit (M6 cage nut, screw and washer) included

1. Specification

Panel height	Weight (Empty panel)	Material	Color
1U	1,2 kg	Aluminium	White RAL9010
1,5U	1,4 kg		
2U	1,8 kg		

The patch panel is available in 4 different configurations:

- Empty with installation kit
- With adapters and installation kit
- With pigtails, adapters and installation kit
- With pre-terminated cable

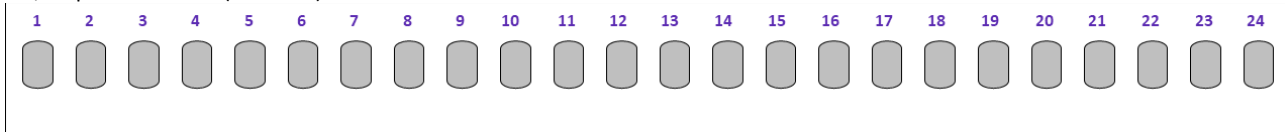
2. Fiber capacity

Panel variant	LC	SC	E2000	FC, ST	Size W x H x D (mm)
1U for or width adapters and pigtails	96	48	48	24	44 x 484(19") x 240
1U for or width pre-terminated cable	96	48	48	24	44 x 484(19") x 240
1,5U for or width adapters and pigtails	96	48	48	24	67 x 484(19") x 240
1,5U for or width pre-terminated cable	96	48	48	24	67 x 484(19") x 240
2U for or width adapters and pigtails	96	96	-	-	89 x 484(19") x 240
2U width pre-terminated cable	192 ¹⁾	96	-	-	89 x 484(19") x 240

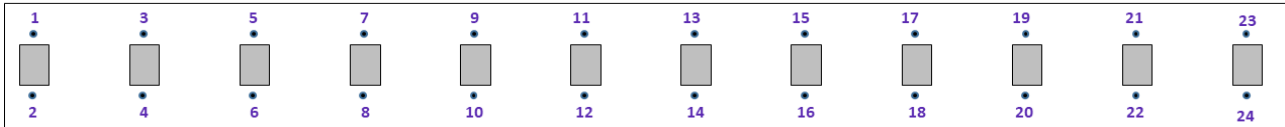
¹⁾ 192F panel is only available in pre-terminated version with LC connectors and is delivered with 2x 96F cable as standard.

3. Adapter plate lay-out 1U and 1,5U

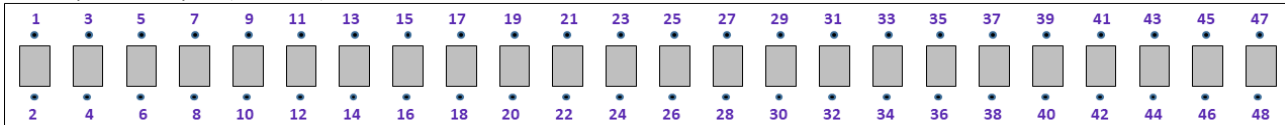
3.1, 24 port ST and FC (24 fibers)



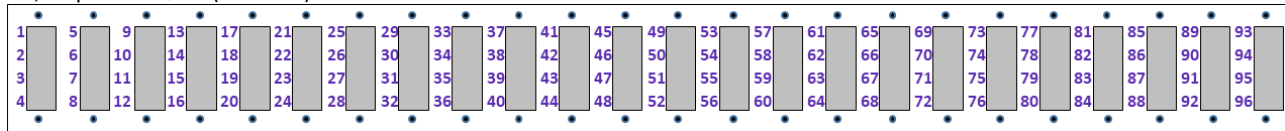
3.2, 12 port LC-Duplex (24 fibers)



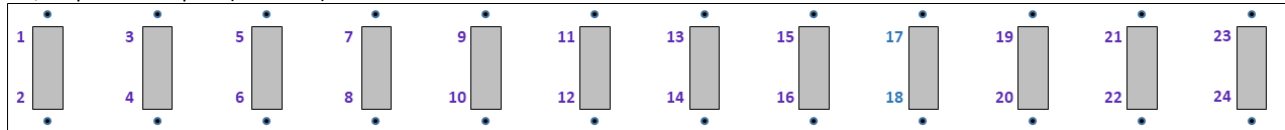
3.3, 24 port LC-Duplex (48 fibers)



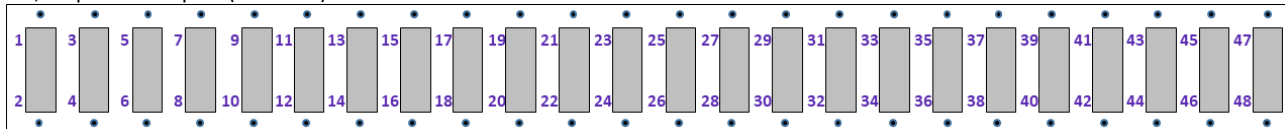
3.4, 24 port LC-Quad (96 fibers)



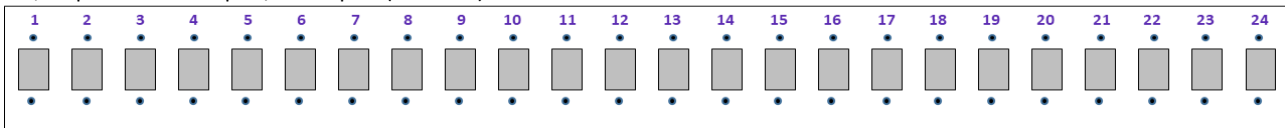
3.5, 12 port SC-Duplex (24 fibers)



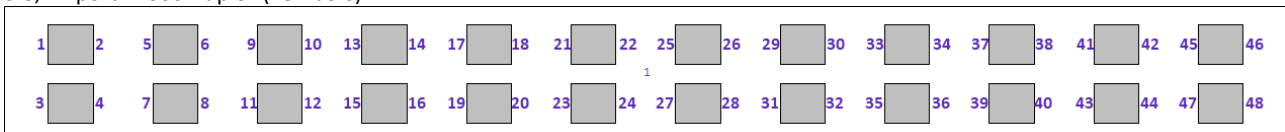
3.6, 24 port SC-Duplex (48 fibers)



3.7, 24 port E2000 Simplex/SC Simplex (24 fibers)



3.8, 24 port E2000 Duplex (48 fibers)



4. Adapter plate lay-out 2U

4.1 48 port SC-Duplex (96 fibers)

1	2	9	10	17	18	25	26	33	34	41	42	49	50	57	58	65	66	73	74	81	82	89	90
3	4	11	12	19	20	27	28	35	36	43	44	51	52	59	60	67	68	75	76	83	84	91	92
5	6	13	14	21	22	29	30	37	38	45	46	53	54	61	62	69	70	77	78	85	86	93	94
7	8	15	16	23	24	31	32	39	40	47	48	55	56	63	64	71	72	79	80	87	88	95	96

4.2 48 port LC-Quad (192 fibers)

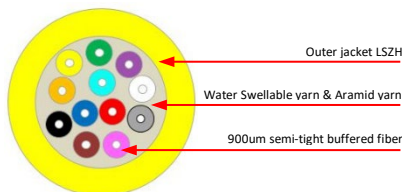
1	4	17	20	33	36	49	52	65	68	81	84	97	100	113	116	129	132	145	148	161	164	177	180
5	8	21	24	37	40	53	56	69	72	85	88	101	104	117	120	133	136	149	152	165	168	181	184
9	12	25	28	41	44	57	60	73	76	89	92	105	108	121	124	137	140	153	156	169	172	185	188
13	16	29	32	45	48	61	64	77	80	93	96	109	112	125	128	141	144	157	160	173	176	189	192

5. Available cable types for pre-terminated panels

Cable type	Fiber qty	Fiber type	Cable color					
			SM	OM1	OM2	OM3	OM4	OM5
AXAI-I/O Indoor/Outdoor distribution	12, 24, 48	SM/MM	Yellow	Grey	Orange	Aqua	Magenta	L. Green
AXAI-I/P Indoor break-out	12, 24, 48	SM/MM	Yellow	Orange	Orange	Aqua	Magenta	L. Green
QXAI-I/O (QXXI) Micro Sheath Indoor/Outdoor	24, 48, 96	SM	Yellow	-	-	-	-	-

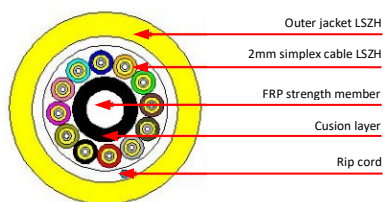
6. Cable parameters

6.1 AXAI-I/O, Indoor/outdoor. Water swellable yarn as moisture barrier. Semi-tight G.657A1 900µm buffered fibers



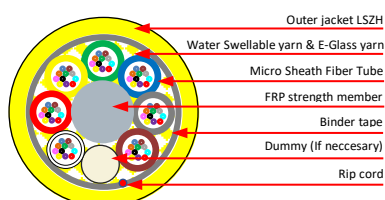
Fiber qty.	OD ± 0.5 (mm)	Nominal Weight (kg/km)	Max. tensile strength (N)		Max. Crush Resistance (N/100mm)		Min. Bending radius (mm)		Operation temp. (°C)
			Short-term	Long-term	Short-term	Long-term	Dynamic	Static	
12	6.0	38	600	200	1000	200	20x D	10x D	-30~+60
24	8.3	58	600	200	1000	200	20x D	10x D	-30~+60
48	10.0	96	600	200	1000	200	20x D	10x D	-30~+60
CPR Class	Dca s2.d2.a1								

6.2 AXAI-I/P, Break-out. Indoor only. 2mm sub-units. Semi-tight G.657A1 900µm buffered fibers



Fiber qty.	OD ± 0.5 (mm)	Nominal Weight (kg/km)	Max. tensile strength (N)		Max. Crush Resistance (N/100mm)		Min. Bending radius (mm)		Operation temp. (°C)
			Short-term	Long-term	Short-term	Long-term	Dynamic	Static	
12	12.5	128	430	140	1000	300	20x D	10x D	-20~+60
24	15.5	198	660	220	1000	300	20x D	10x D	-20~+60
48	20.5	246	660	220	1000	300	20x D	10x D	-20~+60
CPR Class		Dca s2.d2.a1							

6.3 QXAI-I/O (QXXI) Micro Sheath loose tube indoor/outdoor, no gel. With water swellable yarn as additional moisture barrier. G.657A1 250µm fibers. With E-glass yarn for rodent resistance



Fiber qty.	OD ± 0.5 (mm)	Nominal Weight (kg/km)	Max. tensile strength (N)		Max. Crush Resistance (N/100mm)		Min. Bending radius (mm)		Operation temp. (°C)
			Short-term	Long-term	Short-term	Long-term	Dynamic	Static	
24	6,7	30	720	250	1000	300	20x D	10x D	-30~+60
48	6,7	32	720	250	1000	300	20x D	10x D	-30~+60
96	7,4	35	720	250	1000	300	20x D	10x D	-30~+60
CPR Class		Dca s2.d2.a1							

7. Optical fiber

7.1 Single mode optical fiber parameters ITU-T G.657A1

Standard	ITU-T G.657A1		
Optical	Fiber attenuation, cabled	@ 1310 nm: ≤0.36dB/km	@ 1550 nm: ≤0.22dB/km
	Mode Field Diameter (MFD)	@ 1310 nm: 8.8 ± 0.4µm	@ 1550 nm: 9.8 ± 0.5µm
	Zero dispersion wavelength	1300~1324 nm	
	Zero dispersion slope	≤0.092 ps/nm ² · km	
	Polarization mode dispersion (PMD)	≤0.2 ps/√km	
	Cut-off wavelength	≤1260 nm	
	Macro bending loss	@1550 nm	@1625 nm
	10 turns ø15mm	≤0.25 dB	≤1.0 dB
	1 turn ø10mm	≤0.75 dB	≤1.5 dB
Geometric	Outer diameter (uncolored)	245 ± 0.7 µm	
	Cladding diameter	125 ± 1.0 µm	
	Core/clad concentricity error	≤0.5 µm	
	Cladding non-circularity	≤0.7 %	
Mechanical	Proof stress	≥0.69 Gpa	

7.2 Single mode optical fiber parameters ITU-T G.657A2

Standard	ITU-T G.657A2		
Optical	Fiber attenuation, cabled	@ 1310 nm: $\leq 0.36\text{dB/km}$	@ 1550 nm: $\leq 0.22\text{dB/km}$
	Mode Field Diameter (MFD)	@ 1310 nm: $8.8 \pm 0.4\mu\text{m}$	@ 1550 nm: $9.8 \pm 0.5\mu\text{m}$
	Zero dispersion wavelength	1300~1324 nm	
	Zero dispersion slope	$\leq 0.092\text{ ps/nm}^2 \cdot \text{km}$	
	Polarization mode dispersion (PMD)	$\leq 0.2\text{ ps}/\sqrt{\text{km}}$	
	Cut-off wavelength	$\leq 1260\text{ nm}$	
	Macro bending loss	@1550 nm	@1625 nm
	10 turns $\varnothing 15\text{mm}$	$\leq 0.03\text{dB}$	$\leq 0.1\text{dB}$
	1 turn $\varnothing 10\text{mm}$	$\leq 0.1\text{dB}$	$\leq 0.2\text{dB}$
	1 turn $\varnothing 7,5\text{mm}$	$\leq 0.5\text{dB}$	$\leq 1.0\text{dB}$
Geometric	Outer diameter (uncolored)	$245 \pm 0.7\mu\text{m}$	
	Cladding diameter	$125 \pm 1.0\mu\text{m}$	
	Core/clad concentricity error	$\leq 0.5\mu\text{m}$	
	Cladding non-circularity	$\leq 0.7\%$	
Mechanical	Proof stress	$\geq 0.69\text{ Gpa}$	

7.3 Multi mode optical fiber parameters

Standard	ITU-T G.651, ISO/IEC 11801, IEC 60793-2-10					
Fiber type		62,5/OM1	50/OM2 BIF ²⁾	50/OM3 BIF ²⁾	50/OM4 BIF ²⁾	50/OM5 BIF ²⁾
Attenuation	850nm	$\leq 2.7\text{dB/km}$	$\leq 2.3\text{dB/km}$	$\leq 2.4\text{dB/km}$	$\leq 2.4\text{dB/km}$	$\leq 2.4\text{dB/km}$
	953nm	-	-	-	-	$\leq 1.7\text{dB/km}$
	1300nm	$\leq 0.6\text{dB/km}$	$\leq 0.6\text{dB/km}$	$\leq 0.6\text{dB/km}$	$\leq 0.6\text{dB/km}$	$\leq 0.6\text{dB/km}$
Overfilled Modal Bandwidth	850nm	$\geq 200\text{MHz} \cdot \text{km}$	$\geq 500\text{MHz} \cdot \text{km}$	$\geq 1500\text{MHz} \cdot \text{km}$	$\geq 3500\text{MHz} \cdot \text{km}$	$\geq 3500\text{MHz} \cdot \text{km}$
	953nm	-	-	-	-	$\geq 1850\text{MHz} \cdot \text{km}$
	1300nm	$\geq 500\text{MHz} \cdot \text{km}$	$\geq 500\text{MHz} \cdot \text{km}$	$\geq 500\text{MHz} \cdot \text{km}$	$\geq 500\text{MHz} \cdot \text{km}$	$\geq 500\text{MHz} \cdot \text{km}$
Effective Modal Bandwidth	850nm	-	-	$\geq 2000\text{MHz} \cdot \text{km}$	$\geq 4700\text{MHz} \cdot \text{km}$	$\geq 4700\text{MHz} \cdot \text{km}$
	953nm	-	-	-	-	$\geq 2470\text{MHz} \cdot \text{km}$
Application support distance						
100Gb/s WDM ¹⁾	-	-	-	-	-	150mtr
40Gb/s WDM ¹⁾	-	-	-	-	-	440mtr
40GBASE-SR4/ 100GBASE-SR10 ²⁾	850nm	-	-	140mtr	170mtr	200mtr
10GBASE-SR	850nm	-	-	300mtr	550mtr	-
1000BASE-SR	850nm	300mtr	550mtr	1000mtr	1100mtr	-

8. Connector End-Face Geometry

Reference	IEC 61755-3-1 (UPC)		IEC 61755-3-2 (APC)
Connector	SC/FC/ST/E2000	LC/MU	LC/SC/FC/MU/E2000
Radius of curvature (mm)	10 ~ 25	7 ~ 25	5 ~ 12
Fiber height (mm)	-100 ~ +100	-100 ~ +100	-100 ~ +100
Apex offset (μm)	0 ~ +50	0 ~ +50	0 ~ +50
APC angle (°)	/	/	8 $\pm$ 2
Key error max. (°)	/	/	0.2

9. Connector End-Face quality

Zone	Range SM (μm)	Range MM (μm)	Scratches	Defects	Reference
A: Core	0 ~ 25	0 ~ 65	None	None	IEC 61300-3-35:2015
B: Cladding	25 ~ 115	65 ~ 115	None	None	
C: Adhesive	115 ~ 135	115 ~ 135	None	None	
D: Contact	135 ~ 250	135 ~ 250	None	None	
E: Rest of ferrule			None	None	

10. Connector optical characteristics

Item	Parameter		Reference
	Single mode	Multimode	
Insertion loss (IL)	Typ. ≤0.15dB / Max. ≤0.25dB	Typ. ≤0.15dB / Max. ≤0.30dB	IEC 61300-3-34
Return Loss (RL)	≥ - 50 (UPC) / ≥ - 60 (APC)	≥ - 30 (UPC)	IEC 61300-3-6
Quality class	C2 for UPC / C1 for APC	-	IEC 61755-1

11. Adapter characteristics LC, SC, ST, FC, E2000

Insertion loss			Durability (500 matings)	Withdrawal force	Guiding sleeve
SM UPC	SM APC	MM PC			
≤0,2dB	≤0,2dB	≤0,2dB	≤0,1dB	2,0N~5,9N	Zr. (Ceramic sleeve)

12. Installation kit

Accessories	24 fiber	48 fiber	96 fiber	w/o splice holder
Splice holder - 12 splices	2	4	8	-
Locking pin for splice holder	2	2	2	-
Fiber cross	2	2	2	2
Locking pin for fiber cross	2	2	2	2
Fiber guide, for fiber cross	8	8	-	8
Fiber guide, large for fiber cross	-	-	8	8
Fiber guide, small for fiber guiding	4	4	4	4
Cable tie, black	6	6	6	6
Spiral wrap tube, clear, ø12mm L:2m	1	1	1	-
Heat shrink tube, black, w/adhesive, ø19/5mm L:20cm	1	1	1	-
Heat shrink tube, black, w/adhesive, ø12/3mm L:10cm	1	1	1	-
Weight incl. packaging (kg)	0,20	0,25	0,35	0,15

13. Test center

Extensive testing ensures a stable and reliable connection.

The 3D interferometer test provides a confirmation that the polishing process is in accordance with specification and ensures that all parameters of the contact ferrule comply with / exceed the industry standards. Visual inspection of the end face of the ferrule ensures clean optical contacts that are essential for a reliable optical infrastructure. Insertion loss / return loss tests give results on (IL) insertion loss and (RL) return loss.



3D Interferometer test



End-Face inspection



IL an RL tester

14. Ordering information

14.1 Patch panel with SM adapters and installation kit

Product code	Product	
FP1024-FCS-U	1U PP with 24 FC SM adapters (24F)	x: Adapter type (color) U=SM/UPC (Blue) A=SM/APC (Green) FC and ST adapters are in metal.
FP1024-FCN-A	1U PP with 24 FC/APCN SM adapters (24F)	
FP1024-FCR-A	1U PP with 24 FC/APCR SM adapters (24F)	
FP1024-ST5-U	1U PP with 24 ST SM adapters (24F)	
FP1012-LCD-x	1U PP with 12 LC-DPX x adapters (24F)	
FP1024-LCD-x	1U PP with 24 LC-DPX x adapters (48F)	
FP1024-LCQ-x	1U PP with 24 LC-QUAD x adapters (96F)	
FP1012-SCD-x	1U PP with 12 SC-DPX x adapters (24F)	
FP1024-SCD-x	1U PP with 24 SC-DPX x adapters (48F)	
FP1024-E2S-x	1U PP with 24 E2000-SPX x adapters (24F)	
FP1024-E2D-x	1U PP with 24 E2000-DPX x adapters (48F)	
FP1524-FCS-U	1,5U PP with 24 FC SM adapters (24F)	
FP1524-FCN-A	1,5U PP with 24 FC/APCN SM adapters (24F)	
FP1524-FCR-A	1,5U PP with 24 FC/APCR SM adapters (24F)	
FP1524-ST5-U	1,5U PP with 24 ST SM adapters (24F)	
FP1512-LCD-x	1,5U PP with 12 LC-DPX x adapters (24F)	
FP1524-LCD-x	1,5U PP with 24 LC-DPX x adapters (48F)	
FP1524-LCQ-x	1,5U PP with 24 LC-QUAD x adapters (96F)	
FP1512-SCD-x	1,5U PP with 12 SC-DPX x adapters (24F)	
FP1524-SCD-x	1,5U PP with 24 SC-DPX x adapters (48F)	
FP1524-E2S-x	1,5U PP with 24 E2000-SPX x adapters (24F)	
FP1524-E2D-x	1,5U PP with 24 E2000-DPX x adapters (48F)	
FP204A-SCD-x	2U PP with 48 SC-DPX x adapters (96F)	
FP204A-LCQ-x	2U PP with 48 LC-QUAD x adapters (192F)	

14.2 Patch panel with SM adapters, pigtails and installation kit

Product code	Product	
FP1024-FCS-UPT	1U PP with 24 FC SM adapters and 24 pigtails	x: Adapter & connector (color) U=SM/UPC (Blue) A=SM/APC (Green) FC and ST adapters/connectors are in metal.
FP1024-FCN-APT	1U PP with 24 FC/APCN SM adapters and 24 pigtails	
FP1024-FCR-APT	1U PP with 24 FC/APCR SM adapters and 24 pigtails	
FP1024-ST5-UPT	1U PP with 24 ST SM adapters and 24 pigtails	
FP1012-LCD-xPT	1U PP with 12 LC-DPX x adapters and 24 pigtails	
FP1024-LCD-xPT	1U PP with 24 LC-DPX x adapters and 48 pigtails	
FP1024-LCQ-xPT	1U PP with 24 LC-QUAD x adapters and 96 pigtails	
FP1012-SCD-xPT	1U PP with 12 SC-DPX x adapters and 24 pigtails	
FP1024-SCD-xPT	1U PP with 24 SC-DPX x adapters and 48 pigtails	
FP1024-E2S-xPT	1U PP with 24 E2000-SPX x adapters and 24 pigtails	
FP1024-E2D-xPT	1U PP with 24 E2000-DPX x adapters and 48 pigtails	
FP1524-FCS-UPT	1,5U PP with 24 FC SM adapters and 24 pigtails	
FP1524-FCN-APT	1,5U PP with 24 FC/APCN SM adapters and 24 pigtails	
FP1524-FCR-APT	1,5U PP with 24 FC/APCR SM adapters and 24 pigtails	
FP1524-ST5-UPT	1,5U PP with 24 ST SM adapters and 24 pigtails	
FP1512-LCD-xPT	1,5U PP with 12 LC-DPX x adapters and 24 pigtails	
FP1524-LCD-xPT	1,5U PP with 24 LC-DPX x adapters and 48 pigtails	
FP1524-LCQ-xPT	1,5U PP with 24 LC-QUAD x adapters and 96 pigtails	
FP1512-SCD-xPT	1,5U PP with 12 SC-DPX x adapters and 24 pigtails	
FP1524-SCD-xPT	1,5U PP with 24 SC-DPX x adapters and 48 pigtails	
FP1524-E2S-xPT	1,5U PP with 24 E2000-SPX x adapters and 24 pigtails	
FP1524-E2D-xPT	1,5U PP with 24 E2000-DPX x adapters and 48 pigtails	
FP2048-SCD-xPT	2U PP with 48 SC-DPX x adapters and 96F pigtails	

14.3 Patch panel with SM pre-terminated cable

Product code	Product	
FP1024-FCS-Uy-zzz	1U PP pre-term. 24 SPX adapter, 24 FC/UPC connector, y cable, zzz mtr.	x: Polish U=SM/UPC (Adapter & connector Blue) A=SM/APC (Adapter & connector Green) FC and ST adapters/connectors are in metal. y: Cable type 1=AXAI Indoor/outdoor
FP1024-FCN-Ay-zzz	1U PP pre-term. 24 SPX adapter, 24 FC/APCN connector, y cable, zzz mtr.	
FP1024-FCR-Ay-zzz	1U PP pre-term. 24 SPX adapter, 24 FC/APCR connector, y cable, zzz mtr.	
FP1024-ST5-Uy-zzz	1U PP pre-term. 24 SPX adapter, 24 ST/UPC connector, y cable, zzz mtr.	
FP1012-LCD-xy-zzz	1U PP pre-term. 12 DPX adapter, 24 LC/x connector, y cable, zzz mtr.	
FP1024-LCD-xy-zzz	1U PP pre-term. 24 DPX adapter, 48 LC/x connector, y cable, zzz mtr.	
FP1024-LCQ-xy-zzz	1U PP pre-term. 24 QUAD adapter, 96 LC/x connector, y cable, zzz mtr.	
FP1012-SCD-xy-zzz	1U PP pre-term. 12 DPX adapter, 24 SC/x connector, y cable, zzz mtr.	
FP1024-SCD-xy-zzz	1U PP pre-term. 24 DPX adapter, 48 SC/x connector, y cable, zzz mtr.	

FP1024-E2S-xy-zzz	1U PP pre-term. 24 SPX adapter, 24 E2000/x connector, y cable, zzz mtr.	2=AXAI Indoor 3=QXAI Indoor/outdoor
FP1024-E2D-xy-zzz	1U PP pre-term. 24 DPX adapter, 48 E2000/x connector, y cable, zzz mtr.	
FP1524-FCS-Uy-zzz	1,5U PP pre-term. 24 SPX adapter, 24 FC/UPC connector, y cable, zzz mtr.	zzz: Cable length 020=20 mtr. 030=30 mtr. 050=50 mtr.
FP1524-FCN-Ay-zzz	1,5U PP pre-term. 24 SPX adapter, 24 FC/APCN connector, y cable, zzz mtr.	
FP1524-FCR-Ay-zzz	1,5U PP pre-term. 24 SPX adapter, 24 FC/APCR connector, y cable, zzz mtr.	...
FP1524-ST5-Uy-zzz	1,5U PP pre-term. 24 SPX adapter, 24 ST/UPC connector, y cable, zzz mtr.	
FP1512-LCD-xy-zzz	1,5U PP pre-term. 12 DPX adapter, 24 LC/x connector, y cable, zzz mtr.	...
FP1524-LCD-xy-zzz	1,5U PP pre-term. 24 DPX adapter, 48 LC/x connector, y cable, zzz mtr.	
FP1524-LCQ-xy-zzz	1,5U PP pre-term. 24 QUAD adapter, 96 LC/x connector, y cable, zzz mtr.	100=100 mtr.
FP1512-SCD-xy-zzz	1,5U PP pre-term. 12 DPX adapter, 24 SC/x connector, y cable, zzz mtr.	
FP1524-SCD-xy-zzz	1,5U PP pre-term. 24 DPX adapter, 48 SC/x connector, y cable, zzz mtr.	Cable ≥50 mtr. is supplied on drum
FP1524-E2S-xy-zzz	1,5U PP pre-term. 24 SPX adapter, 24 E2000/x connector, y cable, zzz mtr.	
FP1524-E2D-xy-zzz	1,5U PP pre-term. 24 DPX adapter, 48 E2000/x connector, y cable, zzz mtr.	1) 2x96F cable
FP2048-SCD-xy-zzz	2U PP pre-term 48 DPX adapter, 96 SC/x connector, y cable, zzz mtr.	
FP2048-LCQ-xy-zzz	2U PP pre-term 48 QUAD adapter, 192 LC/x connector, y cable, zzz mtr. ¹⁾	

14.4 Patch panel with MM adapters and installation kit

Product code	Product	
FP1024-FCS-x	1U PP with 24 FC SPX x adapters (24F)	x: Adapter (color) 1= OM1 (Beige) 2= OM2 (Beige) 3=OM3 (Aqua) 4=OM4 (Magenta) 5=OM5 (Lime Green)
FP1024-ST5-x	1U PP with 24 ST SPX x adapters (24F)	
FP1012-LCD-x	1U PP with 12 LC-DPX x adapters (24F)	FC and ST adapters are in metal.
FP1024-LCD-x	1U PP with 24 LC-DPX x adapters (48F)	
FP1024-LCQ-x	1U PP with 24 LC-QUAD x adapters (96F)	
FP1012-SCD-x	1U PP with 12 SC-DPX x adapters (24F)	
FP1024-SCD-x	1U PP with 24 SC-DPX x adapters (48F)	
FP1024-E2S-x	1U PP with 24 E2000-SPX x adapters (24F)	
FP1024-E2D-x	1U PP with 24 E2000-DPX x adapters (48F)	
FP1524-FCS-x	1,5U PP with 24 FC SPX x adapters (24F)	
FP1524-ST5-x	1,5U PP with 24 ST SPX x adapters (24F)	
FP1512-LCD-x	1,5U PP with 12 LC-DPX x adapters (24F)	
FP1524-LCD-x	1,5U PP with 24 LC-DPX x adapters (48F)	
FP1524-LCQ-x	1,5U PP with 24 LC-QUAD x adapters (96F)	
FP1512-SCD-x	1,5U PP with 12 SC-DPX x adapters (24F)	
FP1524-SCD-x	1,5U PP with 24 SC-DPX x adapters (48F)	
FP1524-E2S-x	1,5U PP with 24 E2000-SPX x adapters (24F)	
FP1524-E2D-x	1,5U PP with 24 E2000-DPX x adapters (48F)	
FP2048-SCD-x	2U PP with 48 SC-DPX x adapters (96F)	
FP2048-LCQ-x	2U PP with 48 LC-QUAD x adapters (192F)	

14.5 Patch panel with MM adapters, pigtails and installation kit

Product code	Product	
FP1024-FCS-xPT	1U PP with 24 FC SPX x adapters and 24 pigtails	x: Adapter & connector (color) 1=OM1 (Beige) 2=OM2 (Beige) 3=OM3 (Aqua) 4=OM4 (Magenta) 5=OM5 (Lime Green)
FPT1024-ST5-xPT	1U PP with 24 ST SPX x adapters and 24 pigtails	
FPT1012-LCD-xPT	1U PP with 12 LC-DPX x adapters and 24 pigtails	FC and ST adapters/connectors are in metal.
FPT1024-LCD-xPT	1U PP with 24 LC-DPX x adapters and 48 pigtails	
FPT1024-LCQ-xPT	1U PP with 24 LC-QUAD x adapters and 96 pigtails	
FPT1012-SCD-xPT	1U PP with 12 SC-DPX x adapters and 24 pigtails	
FPT1024-SCD-xPT	1U PP with 24 SC-DPX x adapters and 48 pigtails	
FPT1024-E2S-xPT	1U PP with 24 E2000-SPX x adapters and 24 pigtails	
FPT1024-E2D-xPT	1U PP with 24 E2000-DPX x adapters and 48 pigtails	
FPT1524-FCS-xPT	1,5U PP with 24 FC SPX x adapters and 24 pigtails	
FPT1524-ST5-xPT	1,5U PP with 24 ST SPX x adapters and 24 pigtails	
FPT1512-LCD-xPT	1,5U PP with 12 LC-DPX x adapters and 24 pigtails	
FPT1524-LCD-xPT	1,5U PP with 24 LC-DPX x adapters and 48 pigtails	
FPT1524-LCQ-xPT	1,5U PP with 24 LC-QUAD x adapters and 96 pigtails	
FPT1512-SCD-xPT	1,5U PP with 12 SC-DPX x adapters and 24 pigtails	
FPT1524-SCD-xPT	1,5U PP with 24 SC-DPX x adapters and 48 pigtails	
FPT1524-E2S-xPT	1,5U PP with 24 E2000-SPX x adapters and 24 pigtails	
FPT1524-E2D-xPT	1,5U PP with 24 E2000-DPX x adapters and 48 pigtails	
FPT2048-SCD-xPT	2U PP with 48 SC-DPX x adapters and 96F pigtails	

14.6 Patch panel with MM pre-terminated cable

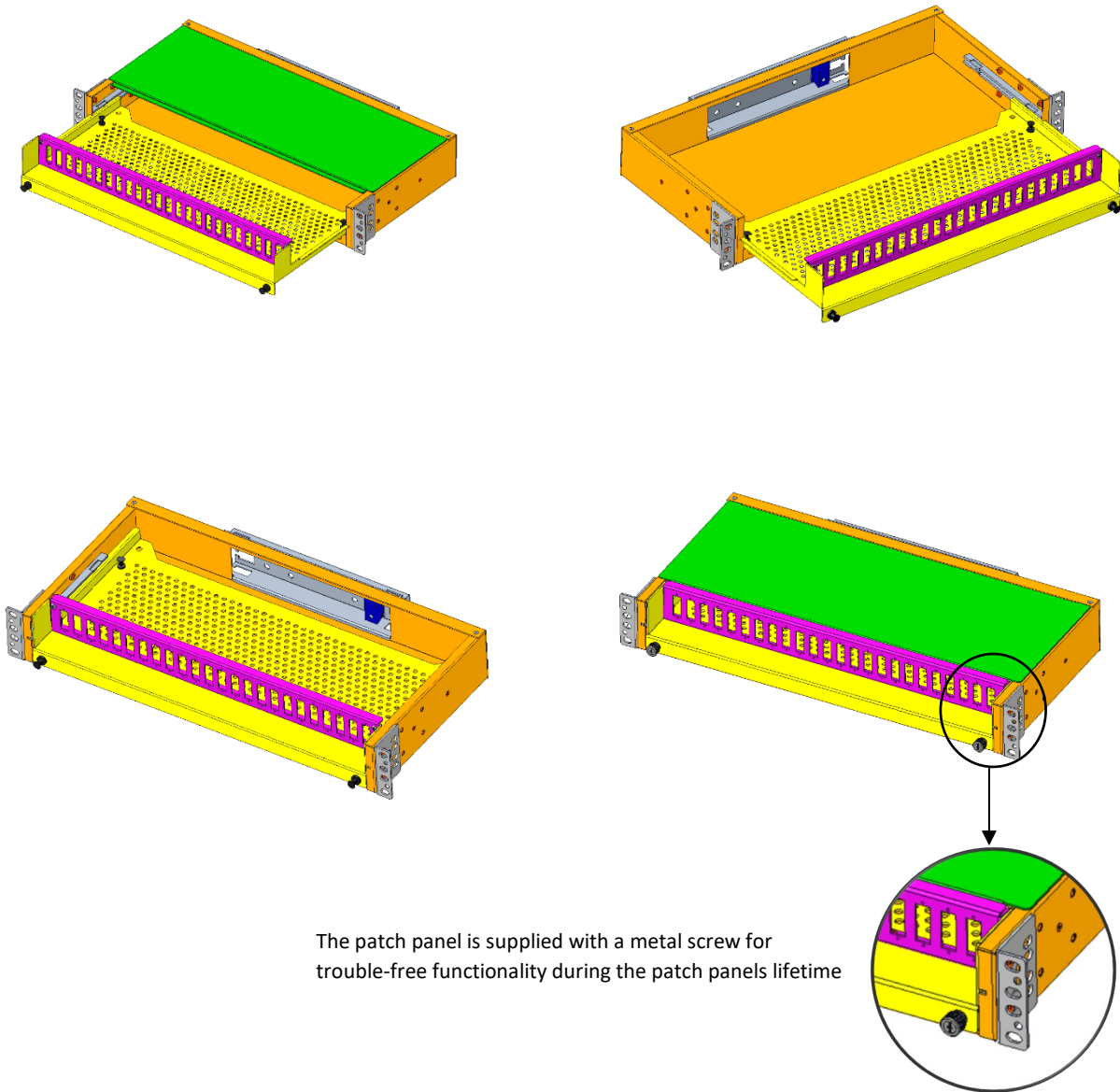
Product code	Product	
FP1024-FCS-xy-zzz	1U PP pre-term. 24 SPX adapter, 24 FC/UPC connector, y cable, zzz mtr.	x: Fiber type, 1= OM1, (Adapter/connector Beige) 2= OM2, (Adapter/connector Beige) 3= OM3, (Adapter/connector Aqua) 4= OM4, (Adapter/connector Magenta) 5= OM5, (Adapter/connector Lime Green) FC and ST adapters/connectors are in metal. y: Cable type 1=AXAI Indoor/outdoor 2=AXAI Indoor zzz: Cable lenght 020=20 mtr. 030=30 mtr. 050=50 mtr. ... 100=100 mtr. Cable ≥50 mtr. is supplied on drum
FP1024-ST5-xy-zzz	1U PP pre-term. 24 SPX adapter, 24 ST/UPC connector, y cable, zzz mtr.	
FP1012-LCD-xy-zzz	1U PP pre-term. 12 DPX adapter, 24 LC/x connector, y cable, zzz mtr.	
FP1024-LCD-xy-zzz	1U PP pre-term. 24 DPX adapter, 48 LC/x connector, y cable, zzz mtr.	
FP1024-LCQ-xy-zzz	1U PP pre-term. 24 QUAD adapter, 96 LC/x connector, y cable, zzz mtr.	
FP1012-SCD-xy-zzz	1U PP pre-term. 12 DPX adapter, 24 SC/x connector, y cable, zzz mtr.	
FP1024-SCD-xy-zzz	1U PP pre-term. 24 DPX adapter, 48 SC/x connector, y cable, zzz mtr.	
FP1024-E2S-xy-zzz	1U PP pre-term. 24 SPX adapter, 24 E2000/x connector, y cable, zzz mtr.	
FP1024-E2D-xy-zzz	1U PP pre-term. 24 DPX adapter, 48 E2000/x connector, y cable, zzz mtr.	
FP1524-FCS-xy-zzz	1,5U PP pre-term. 24 SPX adapter, 24 FC/UPC connector, y cable, zzz mtr.	
FP1524-ST5-xy-zzz	1,5U PP pre-term. 24 SPX adapter, 24 ST/UPC connector, y cable, zzz mtr.	
FP1512-LCD-xy-zzz	1,5U PP pre-term. 12 DPX adapter, 24 LC/x connector, y cable, zzz mtr.	
FP1524-LCD-xy-zzz	1,5U PP pre-term. 24 DPX adapter, 48 LC/x connector, y cable, zzz mtr.	
FP1524-LCQ-xy-zzz	1,5U PP pre-term. 24 QUAD adapter, 96 LC/x connector, y cable, zzz mtr.	
FP1512-SCD-xy-zzz	1,5U PP pre-term. 12 DPX adapter, 24 SC/x connector, y cable, zzz mtr.	
FP1524-SCD-xy-zzz	1,5U PP pre-term. 24 DPX adapter, 48 SC/x connector, y cable, zzz mtr.	
FP1524-E2S-xy-zzz	1,5U PP pre-term. 24 SPX adapter, 24 E2000/x connector, y cable, zzz mtr.	
FP1524-E2D-xy-zzz	1,5U PP pre-term. 24 DPX adapter, 48 E2000/x connector, y cable, zzz mtr.	
FP2048-SCD-xy-zzz	2U PP pre-term 48 DPX adapter, 96 SC/x connector, y cable, zzz mtr.	

14.7 Empty patch panel with installation kit

Product code	Product
FP1024-ST5	1U PP for 24 ST/FC (24F)
FP1012-LCD	1U PP for 12 LC-DPX (24F)
FP1024-LCD	1U PP for 24 LC-DPX (48)
FP1024-LCQ	1U PP for 24 LC-QUAD (96F)
FP1024-SCD	1U PP for 12 SC-DPX (24F)
FP1024-SCD	1U PP for 24 SC-DPX (48F)
FP1024-E2S	1U PP for 24 E2000-SPX (24F)
FP1024-E2D	1U PP for 24 E2000-DPX (48F)
FP1524-ST5	1,5U PP for 24 ST/FC (24F)
FP1512-LCD	1,5U PP for 12 LC-DPX (24F)
FP1524-LCD	1,5U PP for 24 LC-DPX (48)
FP1524-LCQ	1,5U PP for 24 LC-QUAD (96F)
FP1524-SCD	1,5U PP for 12 SC-DPX (24F)
FP1524-SCD	1,5U PP for 24 SC-DPX (48F)
FP1524-E2S	1,5U PP for 24 E2000-SPX (24F)
FP1524-E2D	1,5U PP for 24 E2000-DPX (48F)
FP2048-SCD	2U PP for 48 SC-DPX (96F)
FP2048-LCD	2U PP for 48 LC-QUAD (192F)

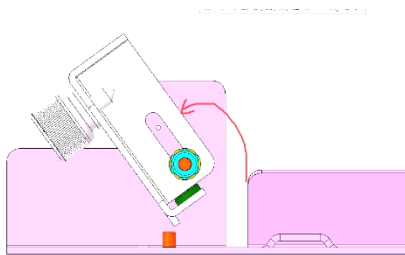
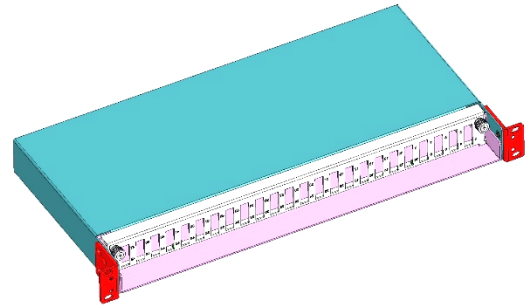
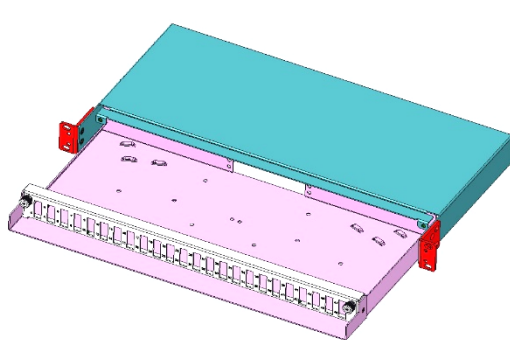
15. Gallery

15.1 FP15 (1,5U patch panel)

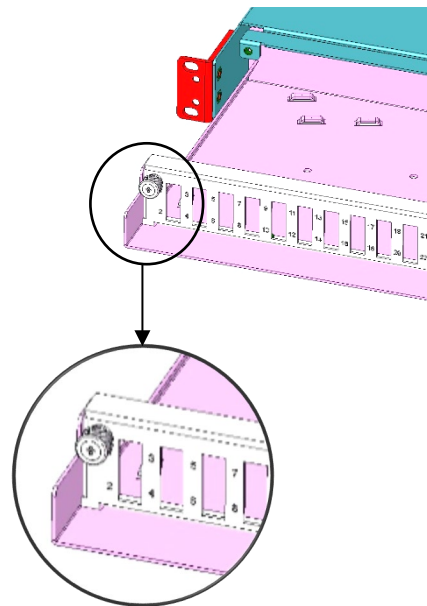


NOTE! FP20 (2U patch panel) is, except for height, equal in design and functionality to above FP15.

15.2 FP10 (1U patch panel)



The patch panel is supplied with a metal screw for trouble-free functionality during the patch panels lifetime



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