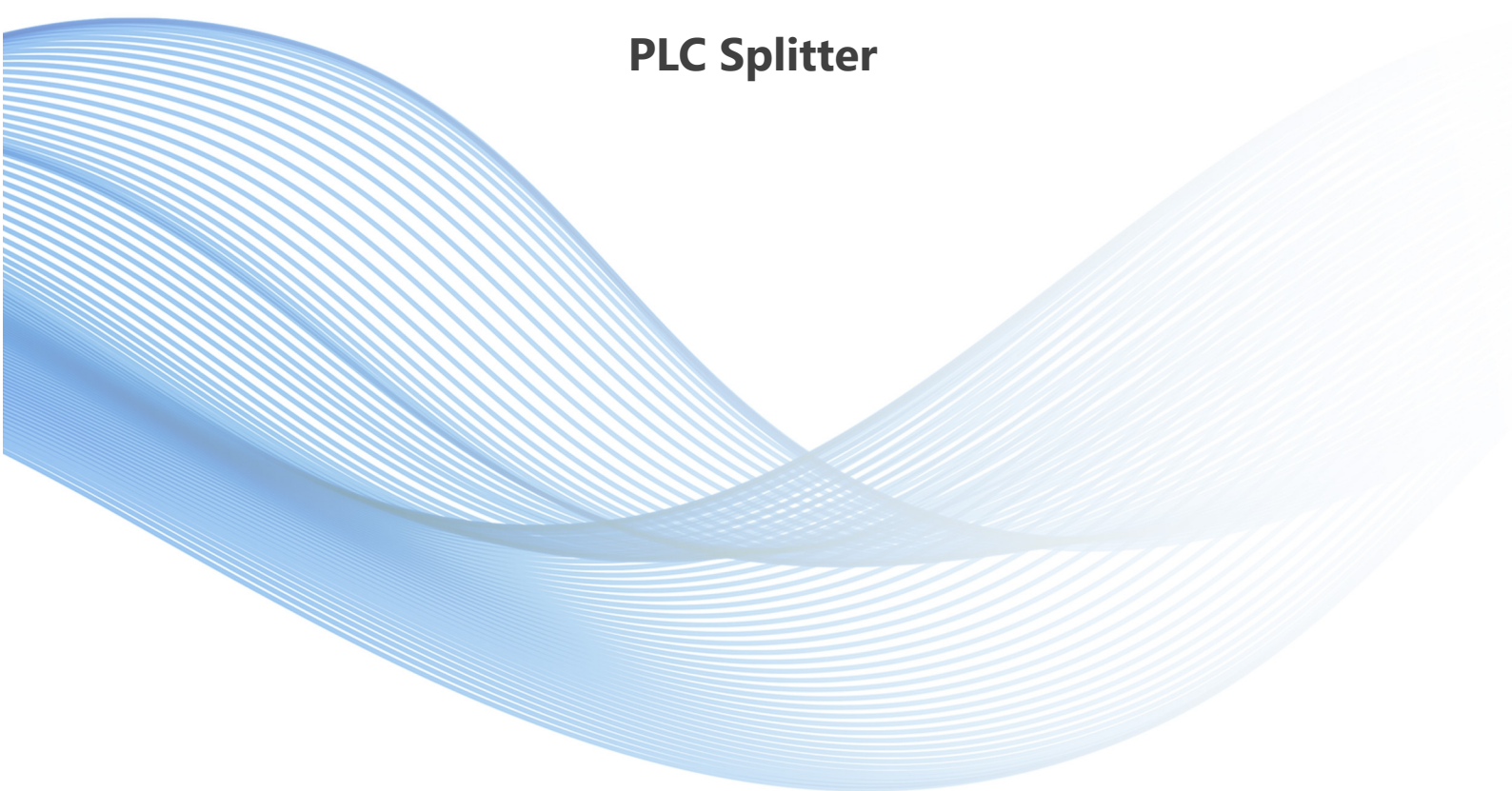


Spec No.: ZTT 23-XJ24243



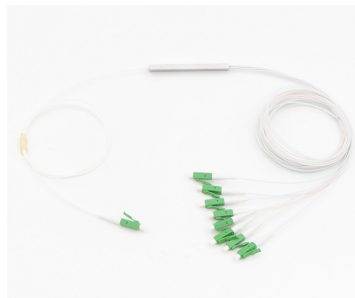
TECHNICAL SPECIFICATION

PLC Splitter



1. 19" Rack Type Optical PLC Splitter GPX-OPA, 1U, with 16x1:2 mini type splitter inside(LC/APC adapters, pigtail at input and output ports, $0.9 \pm 0.08\text{mm}$, length 0.8m, G657A1 fiber, Hytrel)
- 19" Rack Type Optical PLC Splitter GPX-OPA, 1U, with 8x1:4 mini type splitter inside(LC/APC adapters, pigtail at input and output ports, $0.9 \pm 0.08\text{mm}$, length 0.8m, G657A1 fiber, Hytrel)
- 19" Rack Type Optical PLC Splitter GPX-OPA, 1U, with 2x1:32 mini type splitter inside(duplex LC/APC adapter, pigtail at input and output ports, $0.9 \pm 0.08\text{mm}$, length 0.8m, G657A1 fiber, Hytrel)
- 19" Rack Type Optical PLC Splitter GPX-OPA, 1U,with 1x1:64 mini type splitter inside(duplex LC/APC adapter, pigtail at input and output ports, $0.9 \pm 0.08\text{mm}$, length 0.8m, G657A1 fiber, Hytrel)
- 19" Rack Type Optical PLC Splitter GPX-OPA, 1U,with 1x1:32 mini type splitter inside(duplex LC/APC adapter, pigtail at input and output ports, $0.9 \pm 0.08\text{mm}$, length 0.8m, G657A1 fiber, Hytrel)

1.1 General properties:



1.2 Application

- The body made of cold rolled steel.
- Powder coating Color: light gray (RAL7035).
- Kit for adapting with 19" & 21" rack.
- Add the patch cord organizer in front of the panel, two pieces on both sides.
- The connectors numbered consecutively.
- The input connector and the output connectors clearly marked.

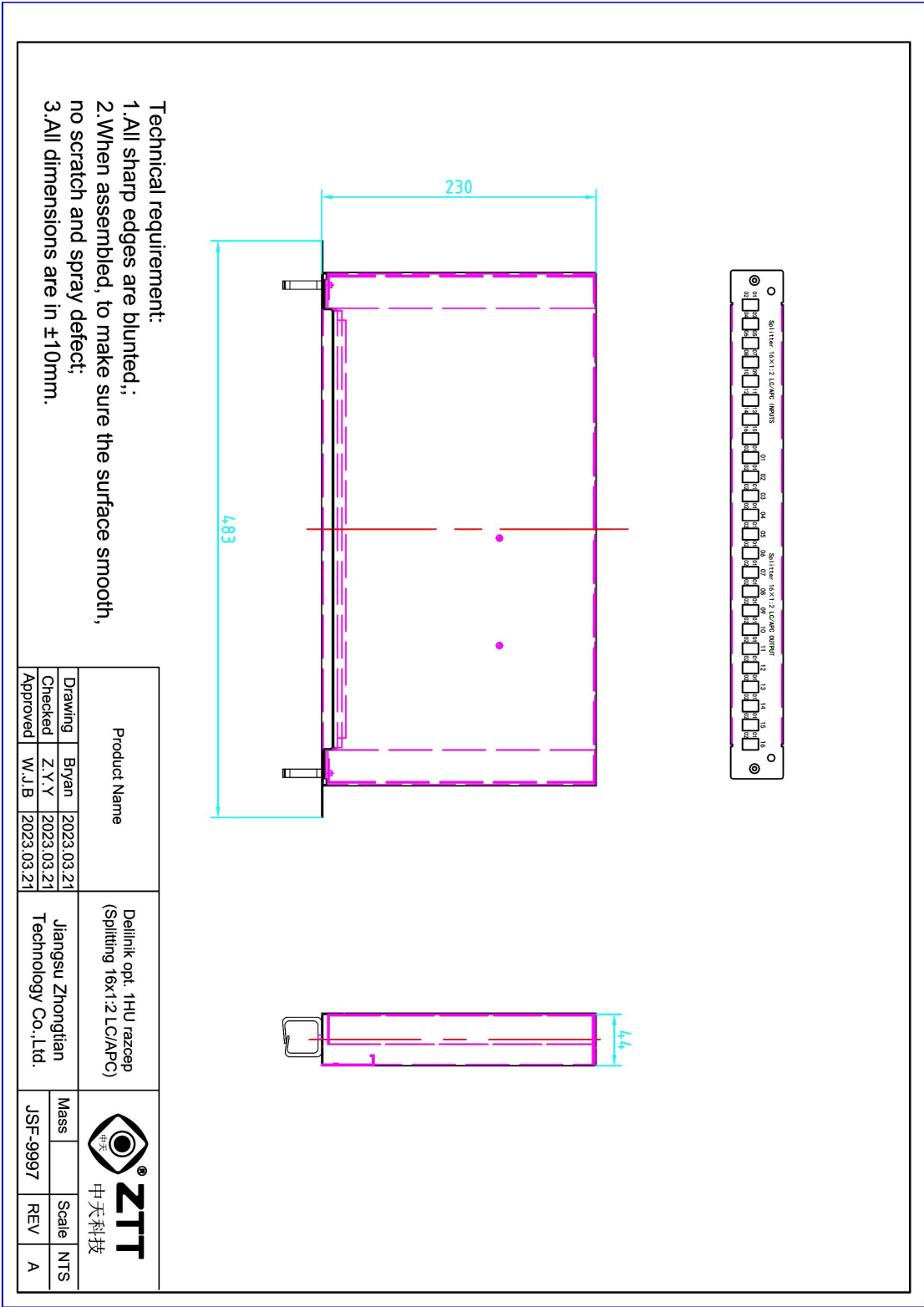
1.3 Features

- Small size and aesthetic appearance.
- Installation quick, reliable performance, stability.
- Employ integrated optic production process.
- Wide operating wavelength range.
- Good uniformity, in particular the application of PON.
- Product measure: 483mm (W) X230mm (D) X44mm (H).

Note: The nominal size may vary by $\pm 10\text{mm}$.

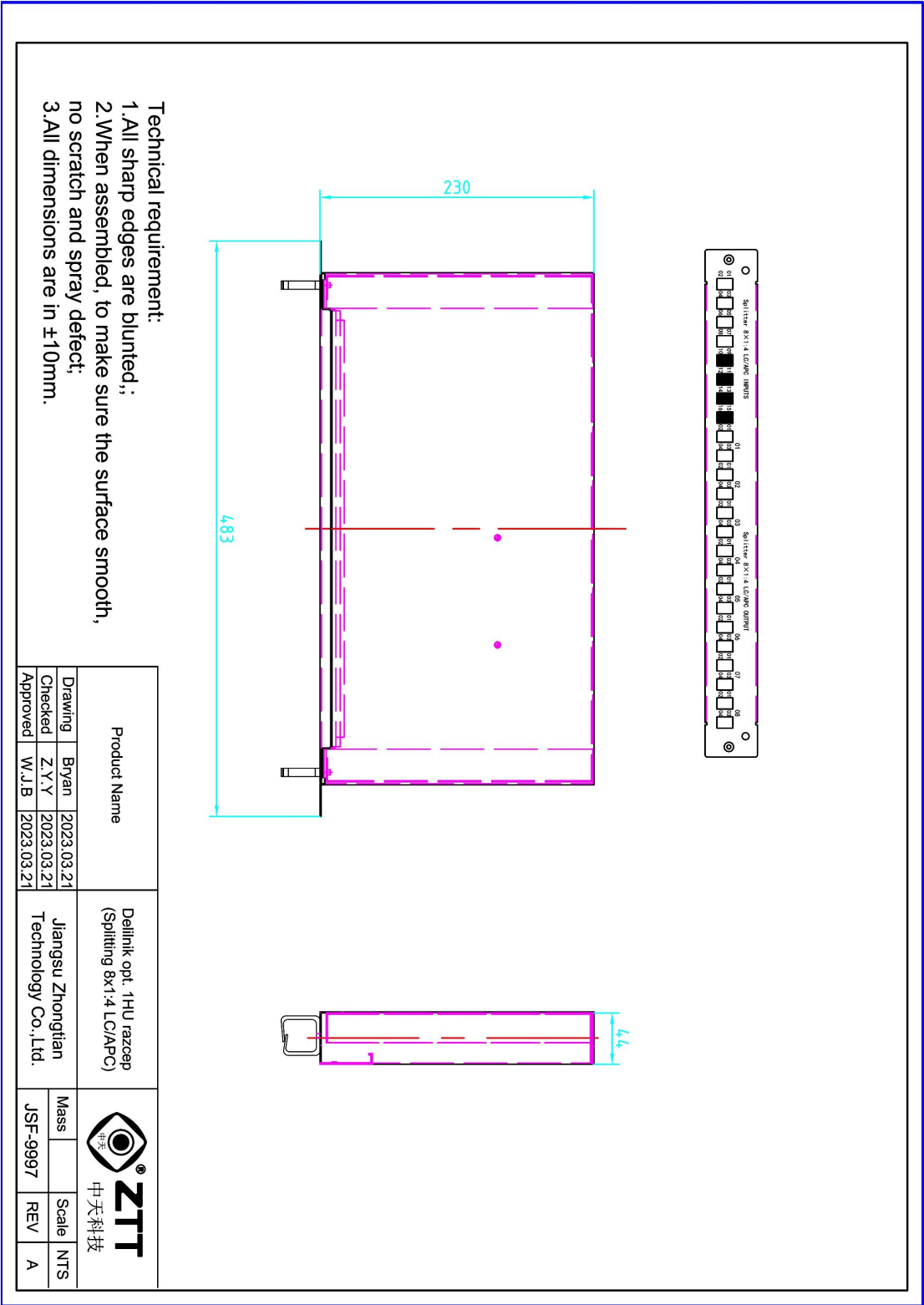


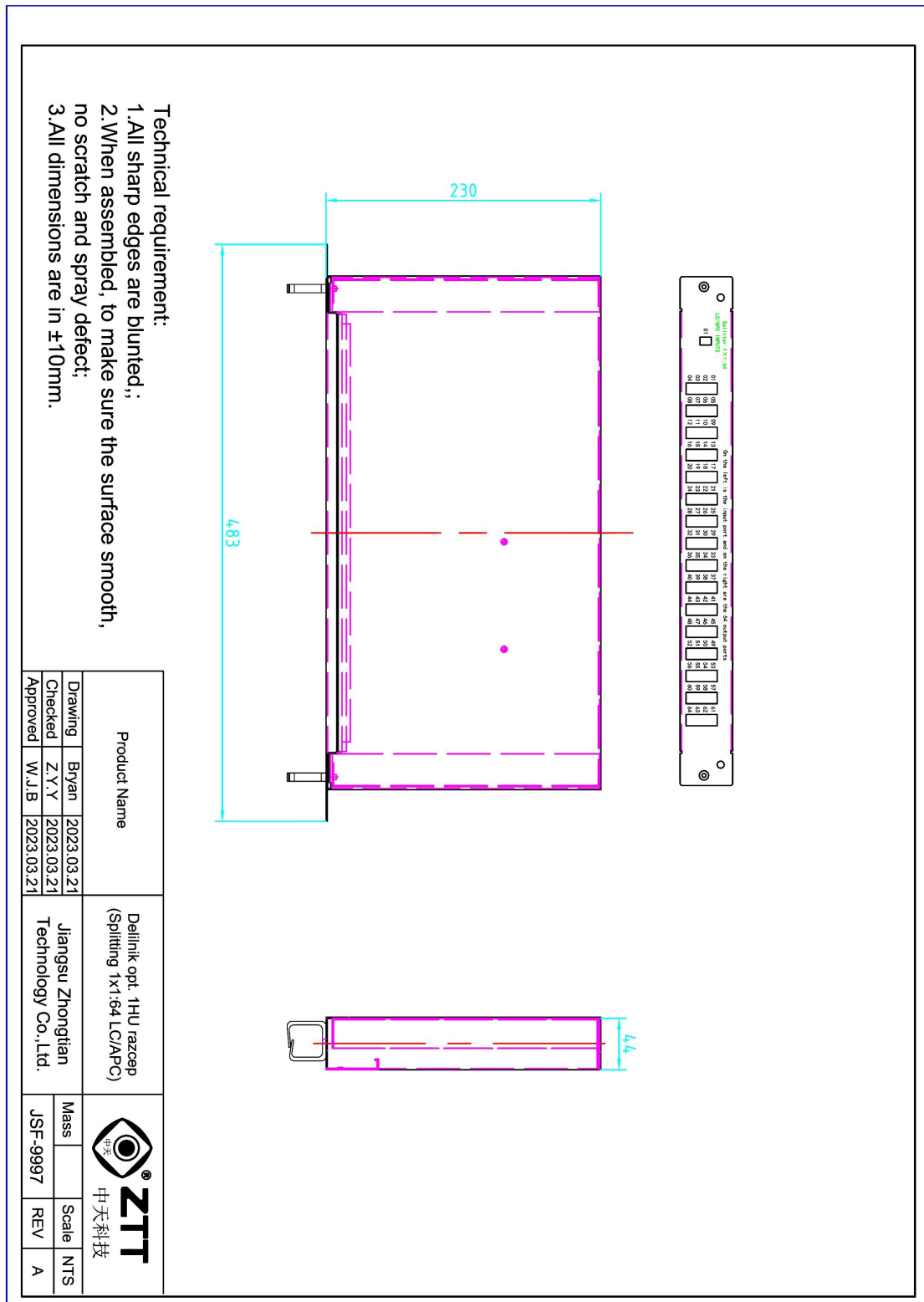
CAD Drawing (Splitting ratio 16x1:2 LC/APC)





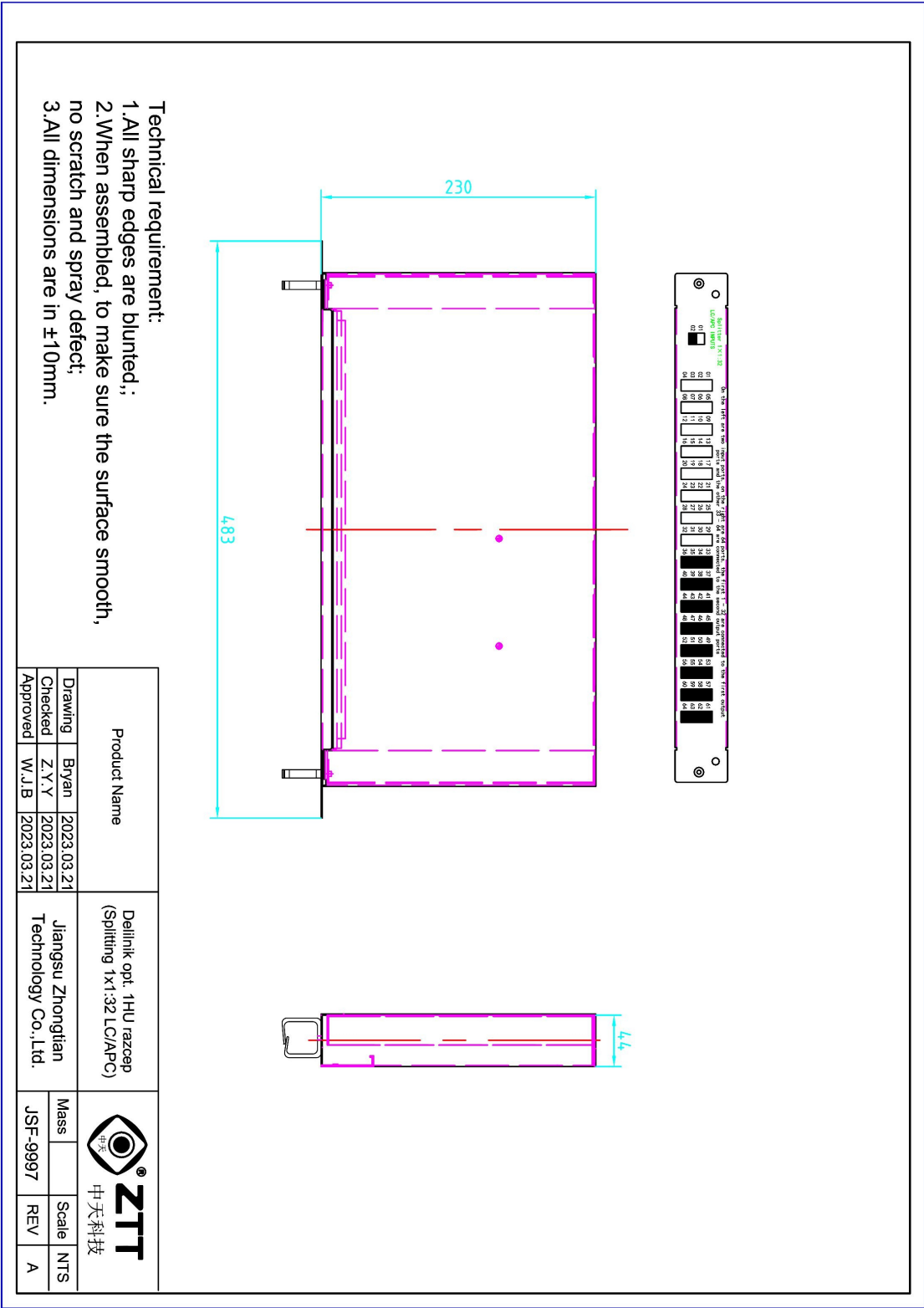
CAD Drawing (Splitting ratio 8x1:4 LC/APC)



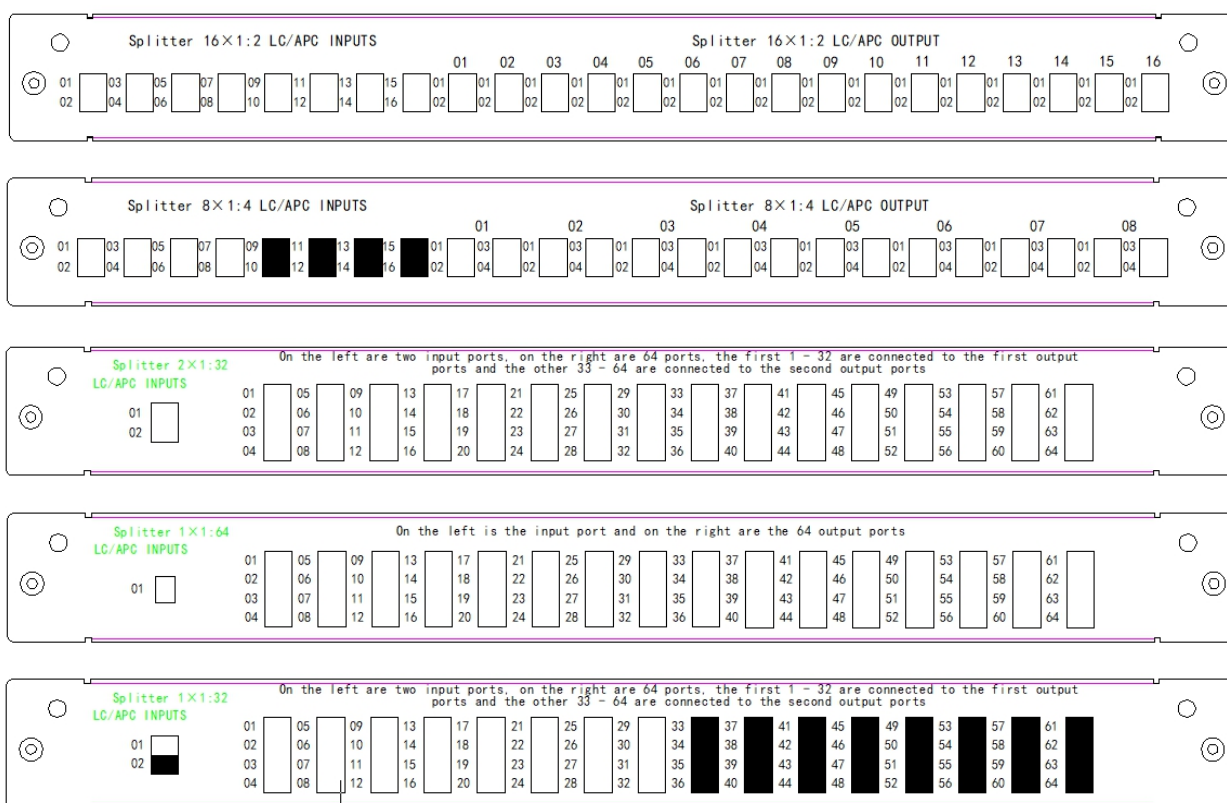




CAD Drawing (Splitting ratio 1x1:32 LC/APC)



1.4 Adapter Panel layout



1.5 Technical characteristics for splitter:

Type	1X2	1X4	1X8	1X16	1X32	1X64
Channel wavelength(nm)	1260-1650					
Insertion loss(dB)	≤4.0	≤7.3	≤11.0	≤13.9	≤17.0	≤20.3
Loss Uniformity (dB)	≤0.6	≤0.6	≤1.0	≤1.4	≤1.5	≤1.8
Return loss (dB)	≥55					
Polarization dependent loss(dB)	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3	≤0.3
Directivity(dB)	≥55					
Connector Standard	IEC 61755 (grade C)					
Operating temperature (℃)	-40~+85					
Storage temperature(℃)	-40~+85					

Note1: Focus on uniform distribution device; the fiber type is single-mode optical fiber.

Note2: All parameter tests without connectors.

1.6 LC/APC ADAPTER Duplex FLANGELESS, GREEN

1.6.1 General properties:



1.6.2 Technical parameter

Type	LC/APC
Insert loss (dB)	≤ 0.15
Interchangeability (dB)	≤ 0.20
Material of sleeve	Ceramic
Operating temperature (°C)	-5~+60
Storage temperature (°C)	-5~+60
Durability	>500 times
Industrial standard	IEC 61754-20

1.7 Optical fiber

G657A1 fiber

Category	Description	Specifications	
		Before cable	After cable
Optical Specifications	Attenuation @1310 nm	≤0.35 dB/km	≤0.40 dB/km
	Attenuation @1550 nm	≤0.21 dB/km	≤0.30 dB/km
	Zero Dispersion Wavelength	1300~1324 nm	
	Zero Dispersion Slope	≤ 0.092 ps/nm ² ·km	
	Cable Cutoff Wavelength (λ _{cc})	≤1260 nm	
	Macro Bending Loss		
	(10 turns; Φ30 mm) @1550 nm	≤ 0.25 dB	
	(10 turns; Φ30 mm) @1625 nm	≤ 1.0 dB	
	(1 turns; Φ20 mm) @1550 nm	≤ 0.75 dB	
	(1 turns; Φ20 mm) @1625 nm	≤ 1.5 dB	
	Mode Field Diameter @1310 nm	(8.6~9.5)±0.4μm	
Dimensional Specifications	Cladding Diameter	125±1μm	
	Cladding Non Circularity	≤1.0%	
	Core/Clad Concentricity Error	≤0.5μm	
Mechanical Specifications	Proof Stress	≥1.05%	

1.8 Test Standard

No.	Test	IEC reference
1	LC Connector	IEC 61754-20,TIA 604-10-A
2	Attenuation(random mate)	IEC 61300-3-34
3	Return loss(coupler method)	IEC 61300-3-6
4	Vibration(sinusoidal)	IEC 61300-2-1
5	Cold	IEC 61300-2-17
6	Dry heat(endurance)	IEC 61300-2-18
7	Damp heat(cyclic)	IEC 61300-2-30
8	Change of temperature	IEC 61300-2-22
9	Flexing of the strain relief of fibre optic devices	IEC 61300-2-44
10	Fibre/cable retention	IEC 61300-2-4
11	Impact(method A)	IEC 61300-2-12
12	Tensile strength of coupling mechanism	IEC 61300-2-6
13	Static side load	IEC 61300-2-42
14	Mating durability	IEC 61300-2-2
15	Dust	IEC 61300-2-27
16	Torsion	IEC 61300-2-5
17	Bending moment	IEC 61300-2-7
18	Salt mist	IEC 61300-2-26