



CABLE PRODUCT

WLAN | XDSL | 3G/4G | FTTH-GE PON/GPON | SWITCH | POE SWITCH | MEDIA CONVERTOR | SFP FIBER MODULES

AIRPRO TECHNOLOGY INDIA PVT. LTD.

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Company Profile

AirPro Technology Ltd. was established in 2006 by a group of highly motivated individuals having a rich experience in providing high class networking solutions. AirPro has its in-house R&D unit which specializes in design, development and customization of wired and wireless solutions, esp. for large scale Telecom industries. AirPro has built its credibility over the last 8 years with its best-in-class quality products which have high performance and are extremely user-friendly.

Our Solutions

- Wireless Internet Service Provider
- Point to Point Link
- Point to Multipoint Link
- Hotspot (Wi-Fi)

Our Vision

Our vision is to simplify the wireless experience for consumers and business customers by offering easy-to-understand, affordable rate plans and excellent customer service. AirPro Technology Ltd. is always up-to-speed in bringing next-generation wireless data products.

SINGLE MODE STANDARD OPTICAL COUPLERS

SPECIFICATIONS



KEY FEATURES

High stability and reliability
Excellent uniformity
Low loss
Low polarization dependence (PDL)
All wave band
Environmentally stable
Stable at high or low temperatures
Environmentally stable

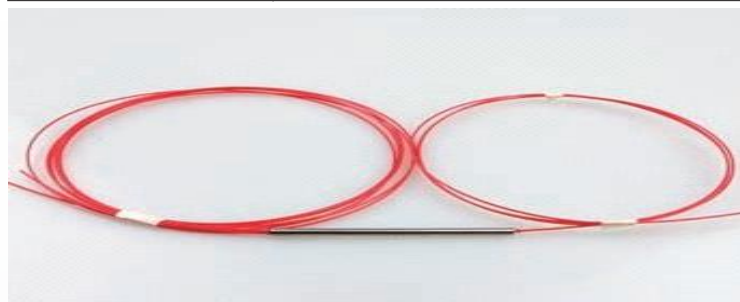
APPLICATIONS

Optic communication system
FTTH
LAN
CATV
Test instrument
Fiber optic sensor
EDFA equipment
Optical fiber switcher
Monitoring system

Name	SC-1x2.2x2 Single Mode Standard Optical Coupler			
Operating Wavelength (nm)	1310, 1490 or 1550nm, Others on request			
Bandwidth (nm)	$\pm 20\text{nm}$ or $\pm 40\text{nm}$			
Excess Loss (dB)	$\leq 0.1\text{dB}$ (0.06dB TYP)			
Coupling Ratio (%)	50/50	40/60	30/70	20/80
Typ. Insertion Loss (dB)	3.06	4.1/2.3	5.3/1.65	7.1/1.05
Max. Insertion Loss (dB)	3.3	4.4/2.6	5.6/1.9	7.4/1.3
Polarization Dependent Loss (dB)	0.1	0.1	0.15/0.1	0.15/0.1
Thermal Stability (dB/°C)	$\leq 0.2\text{dB}$			
Directivity (dB)	$\geq 55\text{ dB}$ ($\geq 60\text{dB}$ 2x2)			
Operating Temperature (°C)	-40°C to $+85^{\circ}\text{C}$			
Package Type	1. 900um loose tube 2. $\Phi 0.9$ $\Phi 3.0$ 900um loose tube or 3mm loose cable (or 2mm) 3. FC/APC FC/APC Pigtail			
Lead length	1 meter, others on request			
Package Dimensions (mm)	$\Phi 3 \times 54$	90 x 20 x 10	100 x 80 x 10	

TEST CONDITIONS FOR RELIABILITY

High Temperature	$85 \pm 2^{\circ}\text{C}$, 5000 hours
Humidity and Heat	$75 \pm 2^{\circ}\text{C}/90 \pm 5\%\text{RH}$, 5000 hours
Low Temperature	$-40 \pm 5^{\circ}\text{C}$, 5000 hours
Soaking Test	$43 \pm 2^{\circ}\text{C}/\text{PH}5.5 \pm 0.5$, 168 hours
Temperature Cycle	$40 \pm 2^{\circ}\text{C}$ \nlessgtr $85 \pm 2^{\circ}\text{C}$, 500 cycles
Vibration Test	10Hz to 2000Hz, Vibration range 1.52mm, 3 directions, 4 hours/direction
Impact Test	1.8m high, 3 directions, 8 times/directions



PATCH CORDS



KEY FEATURES

High stability and reliability

Excellent uniformity

1. Low Insertion loss
High Return loss
2. Comply with IEC Standard
3. Environmentally stable

Stable at high or low temperatures

Environmentally stable

APPLICATIONS

Optic communication system

FTTH

LAN

CATV

Test instrument

Fiber optic sensor

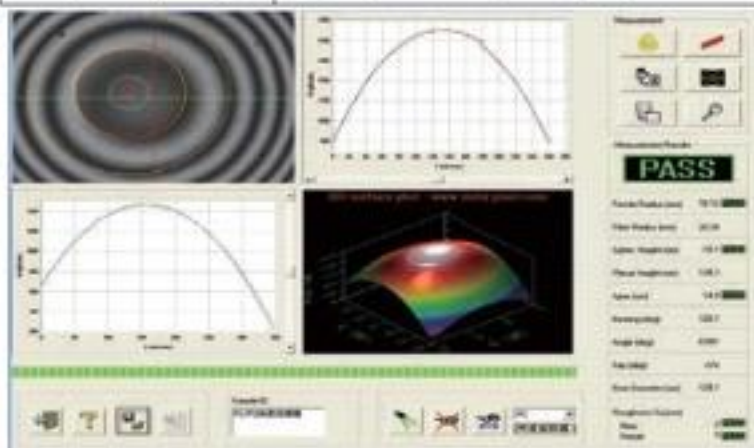
EDFA equipment

Optical fiber switcher

Monitoring system

SPECIFICATIONS

Connector	FC,SC,ST,LC,MU,SMA,DIN,D4, Toslink			
Mode	SM		MM	
Endface	PC	UPC	APC	PC
Insertion Loss (dB)	≤ 0.3	≤ 0.2	≤ 0.3	≤ 0.3
Return Loss (dB)	≥ 45	≥ 50	≥ 60	—
Cable Dia (mm)	$\Phi 3, \Phi 2.4, \Phi 2.0, \Phi 1.6, \Phi 0.9$			
Vibration (dB)	≤ 0.2 (5~50Hz, 1.5mm, Amplitude)			
Exchangeability (dB)	≤ 0.2 (Connect Randomly)			
Temp. Test (dB/°C)	≤ 0.2 (-40~+85°C, 21 Cycles)			



FASCICULAR OPTICAL PATCH CORDS



KEY FEATURES

Apply to ODF or cross connection cabinet

1. FBT, PLC Applicable for various kinds of couplers
2. 12 Cable number: 12-core
3. SC/PC, SC/APC, FC/PC, FC/APC, ST, LC Fiber connector type
4. Low insertion Loss, High Return Loss

WATERPROOF PIGTAILS



KEY FEATURES

CATV Connect main cable and optical receiver

1. Waterproof connector, reliable performance
2. Airproof proof, waterproof, high tensile
3. Various types of optical connectors are available Fiber connector type
4. Low insertion Loss, High Return Loss

E2000 OPTICAL PATCH CORDS



KEY FEATURES

Apply to ODF or cross connection cabinet

1. Small size, high density
2. High-precision mechanical
3. High environmental stability
4. Clamped connection, easy to operate

Structure is practical and beautiful

FC/SC/ST PATCH CORDS



KEY FEATURES

High stability and reliability

Excellent uniformity

1. Low loss
2. IEC, EIA/TIA, Telcordia Comply with IEC, EIA/TIA Telcordia Standard
3. Environmentally stable

Stable at high or low temperatures
Environmentally stable

APPLICATIONS

Optic communication system

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Test instrument

Fiber optic sensor

EDFA equipment

Optical fiber switcher

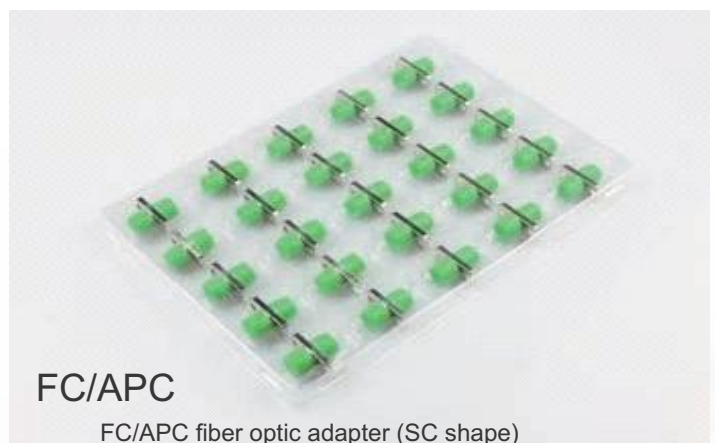
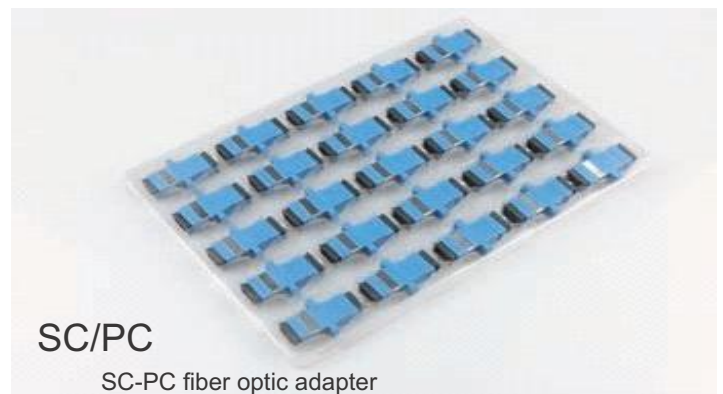
Monitoring system

SPECIFICATIONS

Type	SC/FC/ST/LC/MU/MT - RJ
Insertion Loss (dB)	SM < 0.2dB MM < 0.4dB
Repeatability (dB)	≤ 0.1dB
Mechanical Durability	≤ 0.2dB (500 cycles, dB)
Temperature Range	-40 ~+ 85°C
Material of Sleeve	Zirconia or Phosphor Bronze

RELIABILITY TESTING

No.	Test Name	Additional Insertion loss
A	Mechanical durability	≤ 0.2dB
B	Repeatability	≤ 0.1dB
C	Low temperature	≤ 0.2dB
D	High temperature	≤ 0.2dB
E	Steaming	≤ 0.2dB
F	Vibration	≤ 0.2dB
G	Drop	≤ 0.1dB



D TYPE FIBER OPTIC ADAPTERS



KEY FEATURES

Apply to ODF or cross connection cabinet

1. Fiber optic adapter type: small D type
2. Sleeve Material: Zirconia or Phosphor Bronze
3. FC/PC, FC/APC Fiber connector type
4. Housing Material: Copper or Zinc-alloy

LC DUPLEX FIBER OPTIC ADAPTERS



KEY FEATURES

Apply to ODF or cross connection cabinet

1. Type: Duplex, SC type
2. Sleeve Material: Zirconia or Phosphor Bronze
3. LC/PC Fiber connector type
4. PEI, PPO, PC Housing Material: PEI, PPO, PC

ST TYPE FIBER OPTIC ADAPTERS



KEY FEATURES

Apply to ODF or cross connection cabinet

1. ST Fiber optic adapter type: ST type
2. Sleeve Material: Zirconia or Phosphor Bronze
3. ST Fiber connector type
4. Housing Material: Copper or Zinc-alloy

FC/SC/ST

PATCH CORDS



KEY FEATURES

High stability and reliability

Excellent uniformity

1. Low loss
2. IEC, EIA/TIA, Telcordia Comply with IEC, EIA/TIA Telcordia Standard
3. Environmentally stable

Stable at high or low temperatures

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SPECIFICATIONS

Type	SC/FC/ST/LC/MU/MT - RJ
Insertion Loss (dB)	SM < 0.2dB MM < 0.4dB
Repeatability (dB)	< 0.1dB
Mechanical Durability	≤ 0.2dB (500 cycles, dB)
Temperature Range	-40 ~+ 85°C
Material of Sleeve	Zirconia or Phosphor Bronze

RELIABILITY TESTING

No.	Test Name	Additional Insertion loss
A	Mechanical durability	≤ 0.2dB
B	Repeatability	≤ 0.1dB
C	Low temperature	≤ 0.2dB
D	High temperature	≤ 0.2dB
E	Steaming	≤ 0.2dB
F	Vibration	≤ 0.2dB
G	Drop	≤ 0.1dB



Adjustable-type attenuator



LC

LC adapter-type attenuator



LC

LC Plug-in attenuator



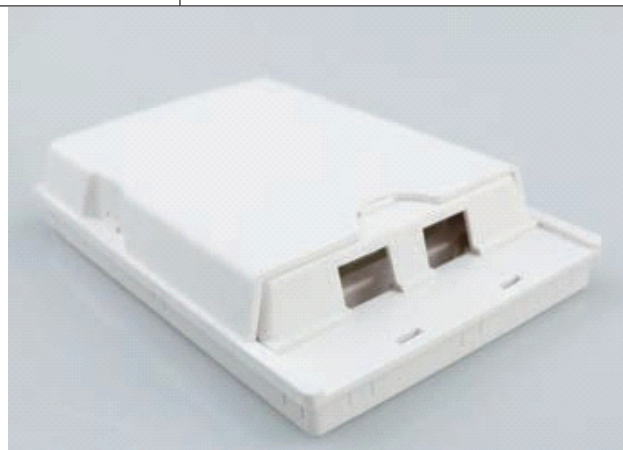
SC

SC Plug-in attenuator

6 CORE FIBER OPTIC DISTRIBUTION BOX

SPECIFICATIONS

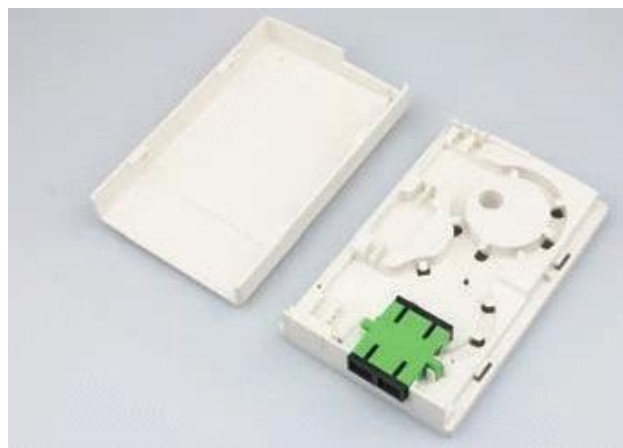
Name	Fiber optic distribution box
Dimension (L*W*H)	186*116*41mm
Material	PC + ABS
Working temperature	-40 ~+ 75°C
Relative humidity	≤ 85% (+30°C)
Atmospheric pressure	70 KPa ~ 106 KPa



2 core termination box



4 core termination box



2 core termination box

KEY FEATURES

Total enclosed structure, be in nice shape
Wet-proof, water-proof, dust-proof, anti-aging

1. Low loss
2. Environmentally stable

Stable at high or low temperatures
Environmentally stable

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(317*237*101mm)

24 core fiber optic distribution box



(250*190*72mm)

12 core fiber optic distribution box



(310*224*73mm)

16 core fiber optic splitter box



(301*224*73mm)

16 core fiber optic splitter box



(301*224*73mm)

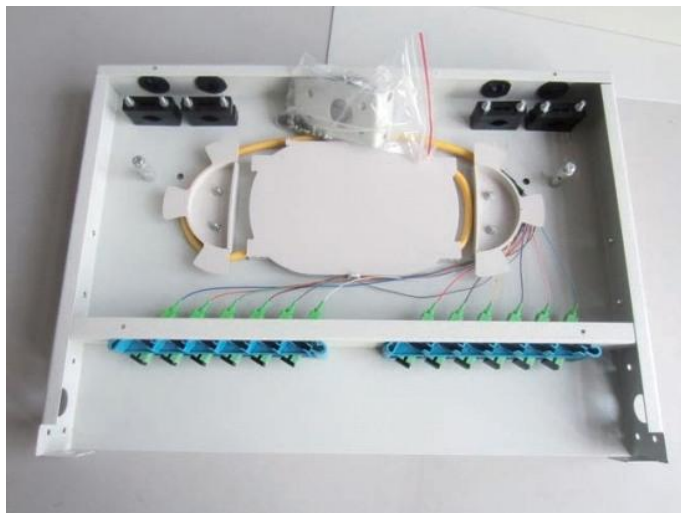
16 core fiber optic splitter box



(199*174*53mm)

8 core fiber optic splitter box

FIBER OPTIC TERMINATION BOX



SPECIFICATIONS

Name	Fiber optic termination box
Dimension	1U 19" Standard rack type
Material	Cold steel
Working temperature	-40 ~+ 85°C
Relative humidity	≤ 85% (+30°C)
Atmospheric pressure	70 KPa ~ 106 KPa

KEY FEATURES

High stability and reliability

Excellent uniformity

1. Low Insertion loss

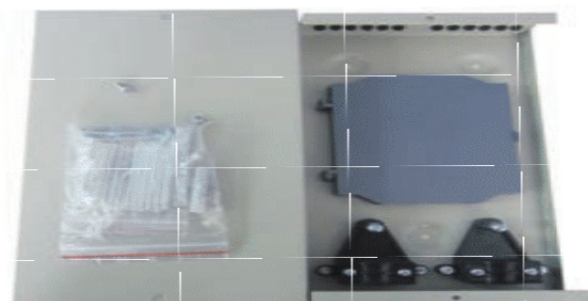
High Return loss

2. Comply with IEC Standard

3. Environmentally stable

Stable at high or low temperatures

Environmentally stable



12 core termination box



12 core termination box

APPLICATIONS

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