



Shanghai Aipu Waton Electronic Technology(group) Co.,ltd.

No.4888 of Hunan Road, Pudong New District, Shanghai, China
Fax: 021-38134888-8089

E-mail: kefu@aipu-waton.com

Http: www.aipu-waton.com

Customer Care Hotline (Domestic): 800-819-4888

Copyright © 2017 Shanghai AIPU WATON Electronic Industries Co., Ltd. All rights reserved. No part of this publication may be reproduced by any means without written permission from Shanghai AIPU WATON. The information in this publication is believed to be accurate in all respects. However, contained herein is subject to change without notice. Revision or new editions to this publication may be issued to incorporate such changes.

Generic Cabling System

Shanghai Aipu Waton Electronic Technology(group) Co.,ltd.





o.4888 of Hunan Road, Pudong New District, Shanghai, China Fax: 021-38134888-8089

E-mail: kefu@aipu-waton.com

Http: www.aipu-waton.com

Customer Care Hotline (Domestic): 800-819-4888

Shanghai Aipu Waton Group is a well-known high-tech company which integrates the research, development, manufacturing and marketing of a complete series of intelligent low voltage and security industrial products. With the corporate spirit of 'Vigorousness, Perseverance and Excellence', the company has accumulated rich business experiences and client resource in the designing and manufacturing and been the leading position of the trade.

AIPU is the pioneer and leader of data transmission and intelligent low voltage industry, we are rewarded as 'Top 10 National Brands of Security Industry in China', 'Top 10 Enterprise in China Security Industry' and 'Shanghai Enterprise Star' etc.

Currently, we have more than 3,000 employees (including more than 200 R&D staff) and the annual sale is over 100 million dollars. We have set up more than 100 sales branches at almost all the provincial, large and medium scale cities in China. Through more than two decades of fast-growing development, there are 8 wholly owned subsidiaries of AIPU Group, which develop and manufacture a wide range of products including ELV cables, data cables, instrumentation cables, control cables, high voltage cables and fiber optic cables, surveillance cameras, network recorder and Intelligent Structured Cabling products. In 2016, we supply low voltage cables more than 2 million kilometers which equals 50 times of equatorial circumference.

AIPU's reliable products, and its design, engineering and manufacturing excellence, enable it to create end-to-end solutions for signal and data transmission, video surveillance and Generic cabling systems.

AIPU WATON is your reliable partner truly.

CONTENTS

Network & Data Cable 5

Fiber Optic Cable 39

High Density Copper Cable Solution 69

Modules 77

Faceplate 93

Patch Panel 109

Patch Cord 128

Fiber Optic Cabling System 135

Smart Cabling 151

Network Cabinets 159

Closed Data Center (Cold Channel) 169

Home Wiring 171

GENERIC CABLING SYSTEM

AIPU WATON is one of the largest and best selling ELV cabling brands in China which covers DCM tested Cat.3, Cat5, Cat5e, Cat6, Cat6A and Cat7 Ethernet cables. AIPU provides full solutions for meeting installation requirements such as temperature and tensile strength. Meanwhile, AIPU WATON is capable of providing a range of generic cabling products including fiber optic cables and cable cabinet.

AIPU WATON launched 'FAST-LINK' series for generic cabling products which are extremely popular among different industrial application based on its easy-to-use functionality and unique design.

In 1993, AIPU WATON firstly released the Ethernet cable in China.

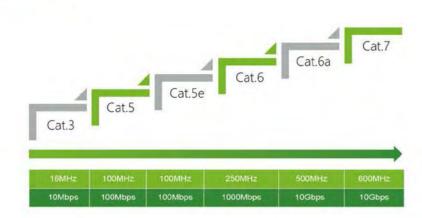
In 1996, AIPU WATON entered the manufacturing field of generic cabling products and was authorized as the OEM supplier for 14 well-known brands worldwide.

In 2006, AIPU WATON became one of the largest and most capability solution providers of generic cabling market



Network & Data Cable

Full Range of Products



From Cat .3 to Cat .7 products, AIPU WATON provides full range of network and data cable to meet all applications. All of our cable meets and exceeds data performance than standard index and provides plentiful system redundance.

Wide Temperature Range
From -40°C~+90°C, AIPU WATON
uses different material to meet temperature challenge.



J

Provide specific requirement for network

cable, such as anti-rat, specific used in lift

Building Fire Resistance for Safety

Strict complied with UL requirement, we provide UL

certified flame retardant network cable to all applica-

tions, which features low smoke, extinguished without fire, no burning drip and short burning distance.

Top sold & market share brand in ELV & the field of intelligentization





AIPU WATON Network & Data Cable **International National Brand** Marketing Supply Monthly 560,000 Boxes

INTEGRATED WIRING

Certification





Quality Assurance









Network & Data Cable

Generic Cabling System www.aipu-waton.com

LSZH Data Cable Passed IEC 60332-3

LSZH Cable

LSZH cable can emit less acid gas and smoke when burned. It's positive to environment protection. European countries initiated LSZH cable from 90s, China promoted it from 2000.

LSZH Data Cable Passed IEC 60332-3 Burning Test

As normal LSZH cable is flammable itself, which makes users in dangerous state for a long time, some well-known enterprises with social responsibility start to R&D LSZH cable with flame retardant ability.

AIPU WATON, the national enterprise with strong social responsibility always in the front rank to consider user safety, produces LSZH data cable meeting the requirement of IEC60332-3.

Standard

Burning Test for Traditional LSZH Cable

IEC60332-1 Flame Test On Single Vertical Insulated Wires/Cables

It's for single wire & cable burning test. It's stipulated that 1pc of 60cm length cable sample fixed in the metal case with open front side. Propane burner with flame height 175mm contacts sample with 45 degree angle to cone of fire 450mm from upper sample fixed point. Test is passed if sample burnt length less than 50mm from sample bottom.



IEC60332-1 Test

IEC 60332-3 Burning Test

> IEC60332-3 Flame Test On Bunched Wires/Cables

It's for bunched cable burning test. It's stipulated that bunched cable sample with 3.5m length fixed on ladder frame. Sample quantity is subject to non-metal parts required by different categories. Cable sample is hanged vertically on the back of burner, air gets in burner from the entrance of burner bottom, propane burner contacts sample with 750 °C flame. Sample must be not fired in 20 min, and flame is spread in 2.5m self-extinguished under ventilated by airflow 5m3/min, speed 0.9m/s.



IEC60332-3 Test

Network & Data Cable
www.aipu-waton.com
Generic Cabling System

Comparison of Flame Retardance between Normal LSZH Cable & passed IEC 60332-3

Item	Normal LSZH	IEC60332-1	IEC60332-3
Light Transmittance	≥ 60%	/	/
PH Value of Gas (Corrosivity)	≥ 4.3	/	/
Conductivity of Combustion Gas	< 100µs/cm	/	/
Sample Quantity	NONE	Single Wire	Multi-wires
Sample Length	NONE	60cm	3.5m
Fire Power	NONE	1KW	20KW
Test Time	NONE	60S	20MIN

Notes: Normal LSZH cable is not required flame retardance.required fLAMME

AIPU LSZH Data Cable Passed IEC 60332-3 Meets all standards below:

IEC 61034	Test for Light Transmittance
IEC 60754	Test for PH Value of Combustion Gas
IEC 60332-1	Test for Flame Retardance
IEC 60332-3	Test for Flame Retardance
TIA 568 C	Test for Data Transmission
ISO 11801	Test for Data Transmission
GB/T 17650	Test for Light Transmittance
GB/T 17651	Test for PH Value of Combustion Gas
GB/T 18380.1	Test for Flame Retardance, Equivalent to IEC 60332-1
GB/T 18380.3	Test for Flame Retardance, Equivalent to IEC 60332-3
YD/T 1019	Test for Data Transmission

Product List

Model No.	Model Name	Standard	Package	Unit
	Cat.6 Cable			
APWT-6-01-E3	Cat.6 UTP (Passed IEC 60332-3)	IEC60332-3	305m/Box	Box
APWT-6-01D-E3	Cat.6FTP (Passed IEC 60332-3)	IEC60332-3	305m/Reel	Reel
	Cat.6a Cable			
APWT-6A-01-E3	Cat.6a UTP (Passed IEC 60332-3)	IEC60332-3	305m/Reel	Reel
APWT-6A-01SF-E3	Cat.6a SF/TP (Passed IEC 60332-3)	IEC60332-3	305m/Reel	Reel

Network & Data Cable

UL Certified Network/LAN Cable

Uninflammable

- High performance of flame retardance cable
- Actively protect life and property under fire
- Provide multi-choise according to application and standard
- Use FEP with oxygen index > 95 for 800°C
- \bullet Flame retardance with average smoke density < 15%

Notes: The last 2 points is the performance by CMP cable











UL910





- UL Approved
- Pass flame retardance test of UL 1581, UL 1666, UL910
- Up to CMR, CMP
- CMP with High Flame Retardance, Low Smoke, Low Corrosion, Self-extinguish, No Droplet
- CMR with good flame retardance, self-extinguish, economical

UL Rated and Marks

Standard

YD/T 926.2-2009 ANSI/TIA 568-C.2 GB 50311-2007 EN 50173-2007 ISO/IEC 11801-2002 Ed2.0 NEC770, NEC800

Application

Rating	Application	Requirement
CMX	Horizontal in same floor	Vertical Single Wire or Cable: Max. burn distance 25.4mm (500W flame applied 5 times at 15s)
СМ	Horizontal in same floor, Ceiling	Bundled Cable: Max. char 2.4m (20.6KW flame applied 20min.)
CMR	Riser, Vertical run between floors in non-plenum areas	Bundled Cable: Max. char 3.6m (154KW flame applied 30min.)
CMP	Air Plenum or Air-conditioning system (not in conduit)	Bundled Cable: Max. char 1.5m (88KW flame applied 20min. with forced air)

Order Information

Part No.	Part Name	Specification	Unit
APWT-5EUC-GY	Cat.5e Cable UTP, 4P (CM)	3 0 5 m / B o x	Вох
APWT-5EUR-WH	Cat.5e Cable UTP, 4P (CMR)	3 0 5 m / B o x	Вох
APWT-5EUP-BU	Cat.5e Cable UTP, 4P (CMP)	3 0 5 m / B o x	Вох
APWT-6UC-GY	Cat.6 Cable UTP, 4P (CM)	3 0 5 m / B o x	Вох
APWT-6UR-WH	Cat.6 Cable UTP, 4P (CMR)	3 0 5 m / B o x	Вох
APWT-6FR-WH	Cat.6 Cable FTP, 4P (CMR)	3 0 5 m / R e e l	Reel
APWT-6UP-BU	Cat.6 Cable UTP, 4P (CMP)	3 0 5 m / B o x	Вох

300m **Transmission**

Special for HD Data Long Distance Transmission

AIPU WATON Network Cable for IP Video Surveillance







Poor Quality

Distance Limit in 90m

No Specific Standard

There is no standard for IP video surveillance transmission system to define transmission distance, performance and

applications.

No Special-used Products

In each link of IP video surveillance project, like design, installation, test and acceptance, copper cable and optic fiber cable standard is followed.

Insufficient Transmission Distance

mission from 90m

Industry Status of Data Cable for Video Surveillance

Features PoE functionality

Network Cable for IP Video Surveillance

(Spotlighted Function)

No Specific Standard

No Special-used Products

Insufficient Transmission Distance

Meet Industry Characteristics

Create Value to User

Provides the solutions of signal transmission and PoE over one cable.

AIPU WATON IP VIDEO CABLE

6









Compatible with IEEE 802.3af and 802.3at standards, Type 2: Class 4: 25.5W (2-pair) PDs.Connecting with AIPU WATON 8-Port PoE Switch, it also extends signal transmission and PoE distance up to 300m. (A few types of high power IR cameras can only reach to 250m).

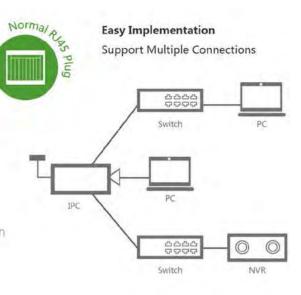
Long Distance

Transmission: 3 times than Ethernet

Limit of Ethernet Permanent link: 90m

Transmission of Network Cable for IP Video Surveillance: Up to 300m





Before: Status of IP Video Surveillance Project

Heavy Work

Difficult Maintenance Complex System Many Fault Points

High Cost Relay Device

Now: Using Network Cable for IP Video Surveillance

Save Work

Reduce Maintenance Cost Troubleshooting

Reduce **Products Cost** consider cable

Before



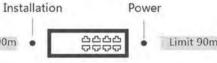




Installation









Back End

Now

Simplify Design & Installation, Reduce Cost

Power



AIPU Network Cable for IP Video Surveillance

Relay 1



Relay 2

Back End



Indoor Network Cable for IP Video Surveillance

Part No.: AP-SS-VWH Indoor Pack: 300m/Reel

Outdoor Network Cable for IP Video Surveillance Part No.: AP-SS-VYBK Outdoor Pack: 300m/Reel

Shanghai AIPU WATON Electronic Technology Group Co.,Ltd. Honour Product, Patent Product, Counterfeiting not Allowed

Diagram







Specialized



Specialized Keystone Jack AP-SSW-CC Used for loading specialized plug.



Description:

Terminating the IP VIDEO CABLE with specialized plug.

- > Widely used in Indoor application.
- > ABS housing
- > Fasten punching, good durability and stability, fit for AIPU WATON IP VIDEO CABLE.

Parameter:

Parameter	Data
Туре	Direct-access
Color	White
Housing Material	ABS
RJ45 Plug Introduction	8P8C
RJ45 Plug Insertion Life	>750
Insertion Loss	≤ 0.4dB@100MHz

Order Information:

Model	Part	Specification	Unit
AP-SSW-CC	Specialized direct-	Used for loading specialized plug	4.5
	access Keystone Jack	to connect with IP VIDEO CABLE	pc





Description:

The AP-SSW-8PTH1UEA is an 8 10/100M ports plus an 10/100M uplink port unmanaged switch that requires no configuration and provides 8 PoE (Power over Ethernet) ports. It can automatically detect and supply power with all IEEE 802.3af/at compliant Powered Devices (PDs).

In this situation, the electrical power is transmitted along with data in one single cable allowing you to expand your network to where there are no power lines or outlets, where you wish to fix devices such as APs, IP Cameras or IP Phones, etc.

AP-SSW-8PTH1UEA works with AIPU WATON IP Video Cable to provide IP video signal and POE up to 300 meters.

Features:

- > Complies with IEEE802.3, IEEE802.3u, IEEE802.3af standards, IEEE 802.3x flow control for Full-duplex Mode, Backpressure for Half-duplex Mode.
- > 8 10/100Mbps Auto-Negotiation RJ45 ports.
- > With PoE function (port-1 to port-9), all of them support Auto MDI/MDIX.
- > Supports PoE IEEE 802.3af compliant PDs.
- > LED indicators for monitoring power, link, activity and speed.
- > Supports Priority function to protect the system when the system power is overloaded.
- > Auto-MDI/MDIX.
- > Auto-negotiation.
- > Store and forward.
- > Easy to use.
- > Plug and Play design.
- > Fanless design.
- > Provide 300m transmission distance by activating EXTEND mode.

Operation mode:

- 1. Default : Default setting, providing transmission and PoE distance up to 100m:
- 2. VLAN: The switch automates the process of setting up VoIP devices on a network. The switch implements a broadcast storm control mechanism to provide a means of securing each broadcast domain, segregating them from each other.
- 3. Extend: Support signal transmission and PoE up to 300m. (A few types of high power IR cameras can only reach to 250m).

Specification:

8-7	8 10/100Mbps PoE ports
Port	1 10/100Mbps port for uplink with greater distance
	All ports support automatic MDI/MDIX crossover
Transmission speed	Network Port: 10BASE-T or 100BASE-TX RJ45
	Support IEEE 802.3 10BASE-T Ethernet
	IEE 802.3u 100BASE-TX
Network Protocol and tandards Compatibility	ANSI/IEEE 802.3 NWay Auto Adjustment
	IEEE 802.3x full-duplex flow control
	IEEE 802.3at/af Power Over Ethernet
	Bandwidth:1.8Gbps
	Network latency , Less than 4 μs for 64-byte frames
Performance	Frames filter and transfer rate
	10M:14,800pps
	100M : 148,800pps
	Power
Status LEDs	Per RJ45 port: Link/activity, speed, PoE status
	1/2(+) , 3/6(-);
Power Supply	Total Power : 96W
rower zabbil	Input Power : DC 52V
hysical Specification	Dimension (W x D x H) : 184mm x 94mm x 27mm
10,743.41.41.41.41.41.41.41.41.41.41.41.41.41.	Weight : 1.05kg
Approxima temporatura	Operating temperature : 0°~40°C
peration temperature	Operating humidity: 10%- 90%, non-condensing
	CE Class B
EMC	FCC Part 15 , Class B
	VCCI Class B
	C-Tick
Certification	CE/ROHS/FCC/CCC
Warranty	Full device: 1 year

Order Information:

Model	Part	Specification	Unit
AP-SSW=8PTH1UEA	8-Port PoE Switch	8 10/100Mbps PoE ports + 1 100Mbps uplink	рс



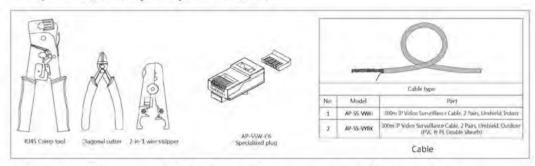


Description:

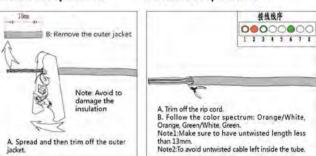
Perfectly working with AIPU IP VIDEO CABLE,

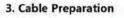
Installation Guide:

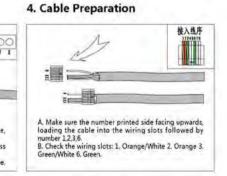
1. Preparation (Tools, keystone jacks and cables)



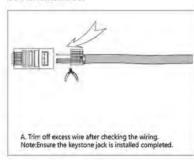
2. Cable Preparation



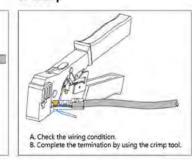




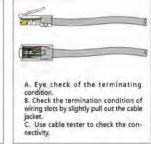
5. Termination



6. Crimp



7. Complete

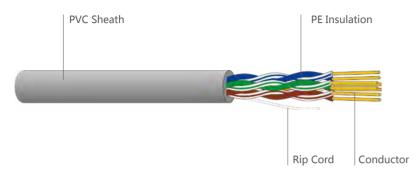


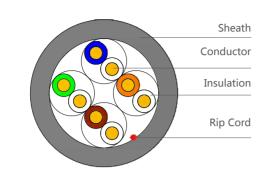
Order Information:

Model	Part	Specification	Unit
AP-SSW-C6	Specialized Plug (100pcs/box)	Specialized RJ45 Plug	Box

Cat.5e UTP

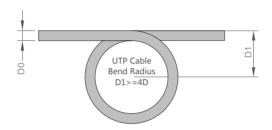
Photo





Description

- >Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps
- >Widely used for horizontal cabling in working area and LAN indoor
- >Superior OFC (oxygen free copper) conductor, reliable electric transmission, meets or exceeds Cat.5e standard, provide plentiful redundancy for system link, fast and convenient installation



Installation Bend Radius: > 4x Diameter

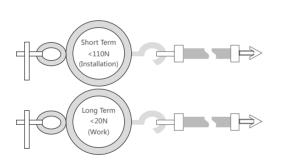
www.aipu-waton.com

Standard

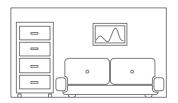
YD/T 1019-2013

Specification

Parameter	Data
Conductor Diameter	24AWG
Insulation Diameter	0.88±0.01mm
Sheath Material	PVC
Overall Diameter	5.4±0.2mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	5.6nF/100m



Installtion Tension: <110N (short term), <20N (long term)



Indoor

Order Information

Model No.	Model Name	Package	Unit
APWT-5E-01	Cat.5e UTP 4Pairs	305m/Box	Box





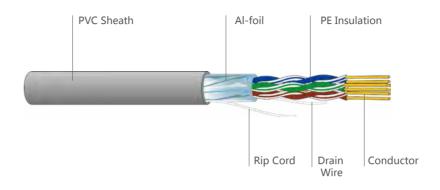
0~40°C

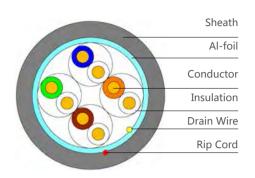


Operating Temp:

Cat.5e 4-Pair F/UTP

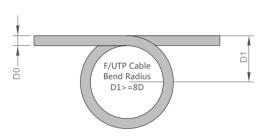
Photo





Description

- > Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps
- >Anti-EMI for confidential system, widely used for horizontal cabling in working area and LAN indoor
- >High grade OFC (oxygen free copper) conductor, reliable electric transmission, meets or exceeds Cat.5e standard
- >Wrapping 0.06mm thickness Al-foil over 4pairs to improve antiinterference to 85dB, which is 20dB higher than UTP cable, used in EMI environment for signal screen and confidentiality



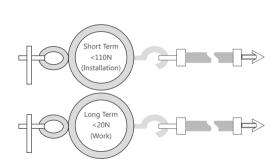
Installation Bend Radius: > 8x Diameter

Standard

YD/T 1019-2013

Specification

Parameter	Data
Conductor Diameter	24AWG
Insulation Diameter	1.0±0.1mm
Sheath Material	PVC
Overall Diameter	6.0±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
Unbalanced DCR Between Pairs	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m



Installation Tension: <110N (short term), <20N (long term)



Indoor







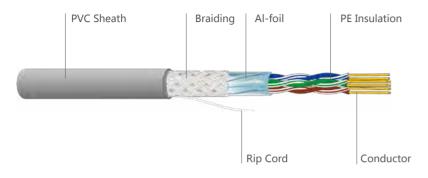
Operating Temp: -10~60°C

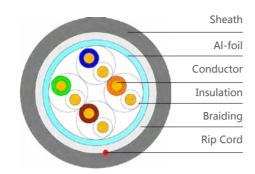
Order Information

Model No.	Model Name	Package	Unit
APWT-5E-01D	Cat.5e F/UTP	305m/Box	Box

Cat.5e SF/UTP

Photo





Description

- >Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps
- >Anti-EMI function for high-level confidential system, widely used for horizontal cabling in working area and LAN indoor
- >High grade OFC (oxygen free copper) conductor, reliable electric transmission, meets or exceeds Cat.5e standard
- >rapping 0.06mm thickness Al-foil and TC braiding screen over 4p wires to improve anti-interference to 90dB, which is 25dB higher than UTP cable, used in EMI environment for high-level signal screen and confidentiality

Standard

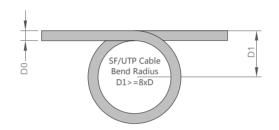
YD/T 1019-2013

Specification

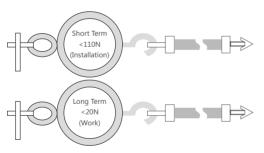
Parameter	Data
Conductor Diameter	24AWG
Insulation Diameter	0.92±0.02mm
Sheath Material	PVC
Overall Diameter	6.4±0.2mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

Order Information

Model No.	Model Name	Package	Unit
APWT-5E-01S	Cat.5e SF/UTP	305m/Reel	Reel



Installation Bend Radius: > 8x Diameter



Installation Tension: <110N (short term), <20N (long term)



Indoor





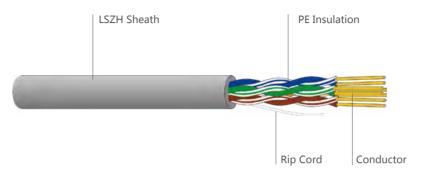
0~40°C

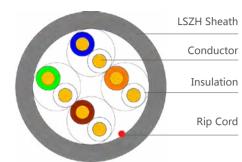


Operating Temp: -10~60°C

Cat.5e UTP with LSZH Sheath

Photo





Description

- >Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps
- >Widely used for horizontal cabling in working area and LAN indoor, meets or exceeds Cat.5e standard
- >High grade OFC (oxygen free copper) conductor, reliable electric transmission
- >Comparing with normal PVC sheath, LSZH emits lower smoke when burnt (according to IEC 61034) and chloric acid <2mg/g (according to IEC 60754), decreasing smoke density and hazards for escape and rescue, eco-friendly product

Standard

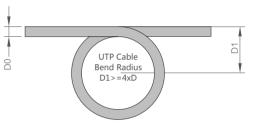
YD/T 1019-2013 GB/T 17650.1-1998 GB/T 17651.1-2-1998 IEC 61034 IEC 60754

Specification

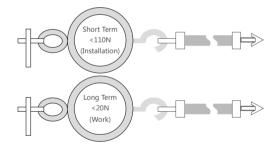
Item	Data
Conductor Diameter	24AWG
Insulation Diameter	0.88±0.01mm
Sheath Material	LSZH
Overall Diameter	5.3±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

Order Informaiton

Model No.	Model Name	Package	Unit
APWT-5E-01-WD	Cat.5e UTP LSZH	305m/Box	Box



Installation Bend Radius: > 4x Diameter



Installation Tension: <110N (short term), <20N (long term)



Indoor



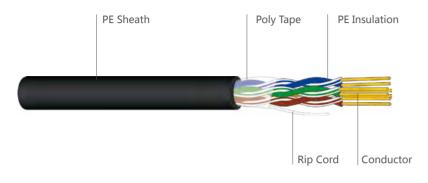


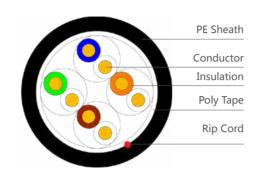


Operating Temp: -10~60°C

Cat.5e UTP Cable Outdoor

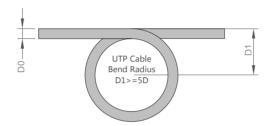
Photo





Description

- > Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps
- >Widely used for outdoor horizontal cabling, LAN, by aerial or on
- > High grade OFC (oxygen free copper) conductor, reliable transmission performance, meets or exceeds Cat.5e standard
- >PE with good water blocking ability instead of PVC jacket and 4pairs wrapped by polyester tape used under water environment in short term (not immersing in water) and UV environment long term



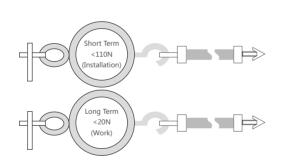
Installation Bend Radius: > 5x Diameter

Standard

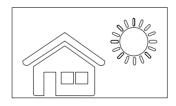
YD/T 1019-2013

Specification

Parameter	Data
Conductor Diameter	24AWG
Insulation Diameter	0.88±0.01mm
Sheath Material	PE
Overall Diameter	5.2±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m



Installation Tension: <110N (short term), <20N (long term)



Outdoor

Order Information

Model No.	Model Name	Package	Unit
APWT-5E-01-FS	Cat.5e F/UTP Outdoor	305m/Box	Box





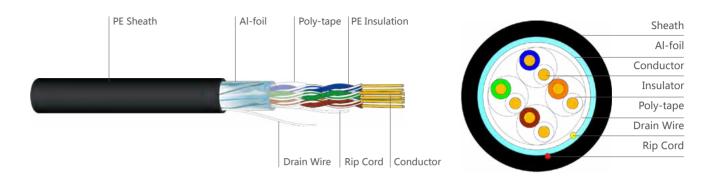
0~40°C



Operating Temp:

Cat.5e FUTP Cable Outdoor

Photo



Description

- >Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps
- >Anti-EMI for confidential system, widely used for horizontal cabling in working area and LAN outdoor by aerial or on wall
- >High grade OFC (oxygen free copper) conductor, reliable electric transmission, meets or exceeds Cat.5e standard
- >Wrapping 0.06mm thickness Al-foil outer 4p wires to improve anti-interference to 85dB, which is 20dB higher than UTP cable, used in EMI environment for signal screen and confidentiality. PE with polyester tape wrapped over 4pairs for good water blocking ability used under water environment in short term (not immersing in water) and UV environment long term

Standard

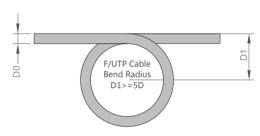
YD/T 1019-2013

Specification

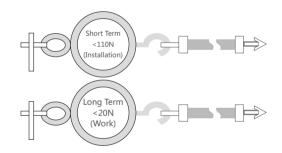
Parameter	Data
Conductor Diameter	24AWG
Insulation Diameter	1.0±0.1mm
Sheath Material	PE
Overall Diameter	6.0±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

Order Information

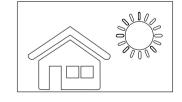
Model 1	No.	Model Name	Package	Unit
APWT-5E-	01D-FS C	at.5e F/UTP Outdoor	305m/Box	Box



Installation Bend Radius: > 5x Diameter



Installation Tension: <110N (short term), <20N (long term)



Outdoor



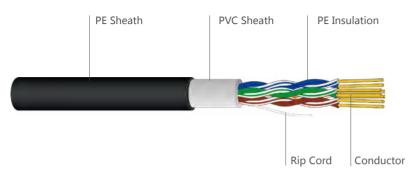


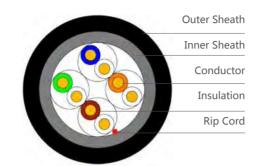


Operating Temp: Installation Temp:

Cat.5e UTP Cable Double Sheath (PE+PVC)

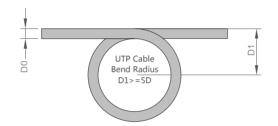
Photo





Description

- > Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps
- >Widely used for outdoor horizontal cabling, LAN, by aerial or on wall
- > High grade OFC (oxygen free copper) conductor, reliable transmission performance, meets or exceeds Cat.5e standard
- >Double Sheath (PE+PVC) with good water blocking ability used under water environment in short term (not immersing in water) and UV environment long term



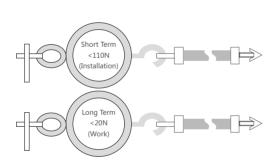
Installation Bend Radius: > 5x Diameter

Standard

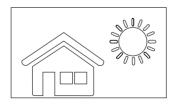
YD/T 1019-2013

Specification

Data
24AWG
0.89±0.05mm
PVC
PE
6.0±0.3mm
≤ 9.5Ω/100m
≤ 2.5%
1Kv/1min
≤ 5.6nF/100m



Installation Tension: <110N (short term), <20N (long term)



Outdoor

Order Information

Model No.	Model Name	Package	Unit
APWT-5E-01VY-FS	Cat.5e Outdoor (PE+PVC)	305m/Reel	Reel





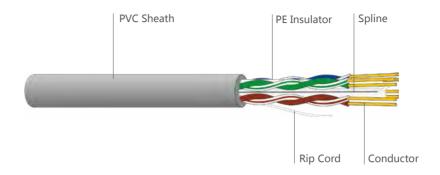
0~40°C

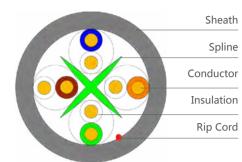


Operating Temp:

Cat.6 UTP Cable

Photo





Description

- > Provide 250MHz bandwidth in 100m, typical speed rate: 1000Mbps
- >Widely used for horizontal cabling in working area and LAN indoor
- >High grade OFC (oxygen free copper) conductor, 4pairs separately design by crossed PE spline, reliable transmission performance, meets or exceeds standard, provide plentiful redundancy for system link, fast and convenient installation

UTP Cable Bend Radius D1>=8D

Installation Bend Radius: > 8x Diameter

Standard

YD/T 1019-2013

Specification

Order Information

APWT-6-01

Parameter	Data
Conductor Diameter	23AWG
Insulation Diameter	1.02±0.05mm
Sheath Material	PVC
Overall Diameter	6.3±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

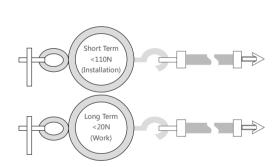
Model Name

Cat.6 UTP Cable

Package

305m/Box

Unit



Installation Tension: <110N (short term), <20N (long term)



Indoor



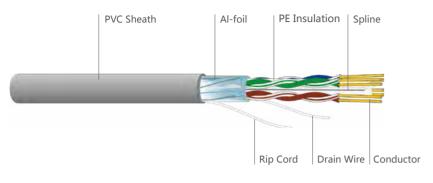


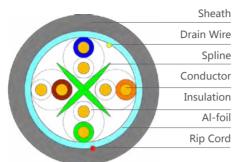


Installation Temp: O~40°C Operating Temp: -10~60°C

Cat.6 F/UTP Cable

Photo





Description

- >Provide 250MHz bandwidth in 100m, typical speed rate: 1000Mbps
- >Widely used for horizontal cabling in working area and LAN indoor
- >High grade OFC (oxygen free copper) conductor, 4pairs separately design by crossed PE spline, reliable transmission, performance, meets or exceeds Cat.6 standard, provide plentiful redundancy for system link
- >Wrapping 0.06mm thickness Al-foil screen over 4p wires to improve anti-interference to 85dB, 20dB higher than UTP cable, used in EMI environment for signal screen and confidentiality

Standard

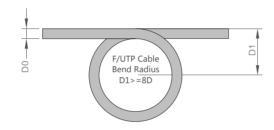
YD/T 1019-2013

Specification

Parameter	Data
Conductor Diameter	23AWG
Insulation Diameter	1.1±0.1mm
Sheath Material	PVC
Overall Diameter	7.6±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

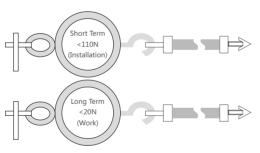
Order Information

Model No.	Model Name	Package	Unit
APWT-6-01D	Cat.6 F/UTP Cable	305m/Reel	Reel

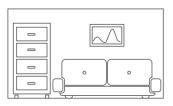


Installation Bend Radius: > 8x Diameter

www.aipu-waton.com



Installation Tension: <110N (short term), <20N (long term)



Indoor





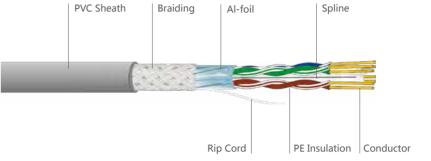
0~40°C



Operating Temp: -10~60°C

Cat.6 SF/UTP Cable

Photo



Sheath Braiding Spline Insulation Al-foil Conductor Rip Cord

Description

- >Provide 250MHz bandwidth in 100m, typical speed rate: 1000Mbps
- >Widely used for horizontal cabling in working area and LAN indoor
- >High grade OFC (oxygen free copper) conductor, 4pairs separatelyf design by crossed PE spline, reliable transmission performance, meets or exceeds Cat.6 standard, provide plentiful redundancy for system link
- >Wrapping 0.06mm thickness Al-foil and TC braid screen over 4p wires to improve anti-interference to 90dB, 25dB higher than UTP cable, used in EMI environment for high-level signal screen and confidentiality

Standard

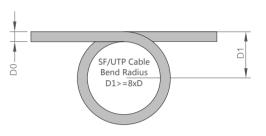
GB 50311-2007 YD/T 926.2-2009

Specification

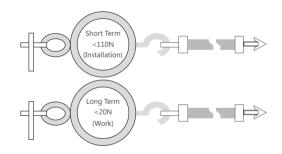
Parameter	Data
Conductor Diameter	23AWG
Insulation Diameter	1.1±0.05mm
Sheath Material	PVC
Overall Diameter	7.8±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

Order Information

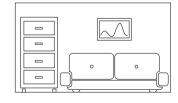
Model No.	Model Name	Package	Unit
APWT-6-01S	Cat.6 SF/UTP Cable	305m/Reel	Reel



Installation Bend Radius: > 8x Diameter



Installation Tension: <110N (short term), <20N (long term)



Indoor





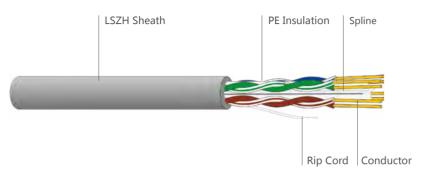
Installation Temp: Opera
0~40°C -1

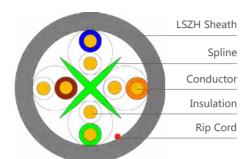
-10°C -60°C

Operating Temp:

Cat.6 UTP Cable LSZH

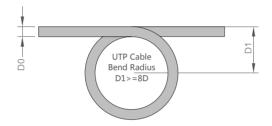
Photo





Description

- > Provide 250MHz bandwidth in 100m, typical speed rate: 1000Mbps
- >Widely used for horizontal cabling in working area and LAN
- >High grade OFC (oxygen free copper) conductor, reliable transmission performance
- >Comparing with normal PVC jacket, LSZH emits much lower smoke emission when burnt (IEC 61034), chloric acid <2mg/g (IEC 60754), decreasing smoke density and hazards for escape and rescue, eco-friendly product



Installation Bend Radius: > 8x Diameter

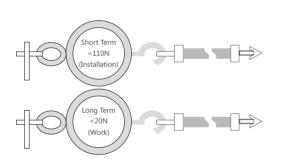
www.aipu-waton.com

Standard

YD/T 1019-2013 GB/T 17650.1-1998 GB/T 17651.1-2-1998 IEC 61034 IEC 60754

Specification

	Data
Conductor Diameter	23AWG
Insulation Diameter	1.06±0.05mm
Sheath Material	LSZH
Overall Diameter	6.3±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m



Installation Tension: <110N (short term), <20N (long term)



Indoor

Order Information

Model No.	Model Name	Package	Unit
APWT-6-01-WD	Cat.6 UTP LSZH	305m/Box	Box





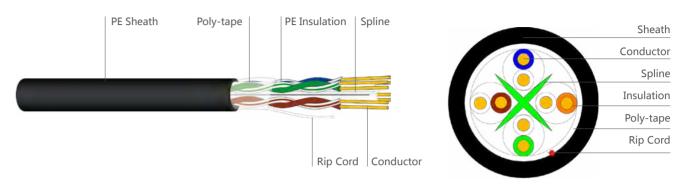
0~40°C



Operating Temp:

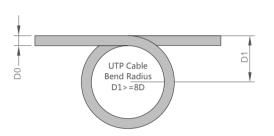
Cat.6 UTP Cable Outdoor

Photo



Description

- >Provide 250MHz bandwidth in 100m, typical speed rate: 1000Mbps
- >Widely used for horizontal cabling in working area and LAN outdoor by aerial or on wall
- > High grade OFC (oxygen free copper) conductor, reliable transmission performance, meets or exceeds Cat.6 standard
- >PE with polyester tape wrapped over 4pairs for good water blocking ability used under water environment in short term (not immersing in water) and UV environment long term



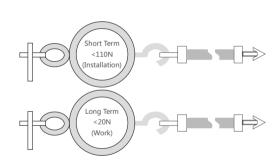
Installation Bend Radius: > 8x Diameter

Standard

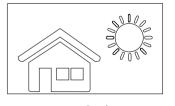
YD/T 1019-2013

Specification

Parameter	Data
Conductor Diameter	23AWG
Insulation Diameter	1.06±0.05mm
Sheath Material	PE
Overall Diameter	6.2±0.2mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m



Installation Tension: <110N (short term), <20N (long term)



Outdoor







Installation Temp: 0~40°C

Operating Temp:

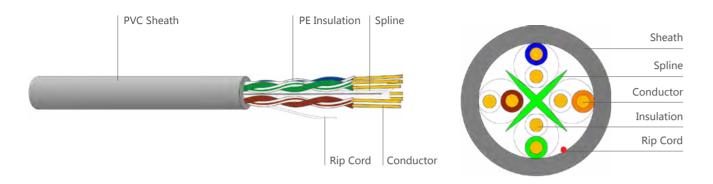
Order Information

Model No.	Model Name	Package	Unit
APWT-6-01-FS	Cat.6 UTP Outdoor	305m/Box	Box

Network & Data Cable Generic Cabling System

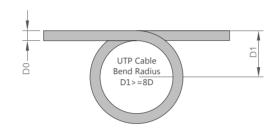
Cat.6A UTP Cable

Photo



Description

- >Provide 500MHz bandwidth in 100m, typical speed rate: 10Gbps
- >Widely used for horizontal cabling in working area and LAN indoor
- > High grade OFC (oxygen free copper) conductor, 4pairs separately design by crossed PE Spline, reliable transmission performance, meets or exceeds Cat.6a standard, provide plentiful redundancy for system link, fast and convenient installation



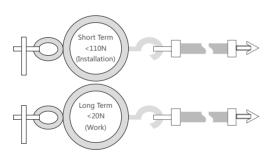
Installation Bend Radius: > 8x Diameter

Standard

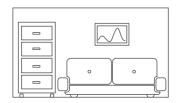
YD/T 1019-2013

Specification

Parameter	Data
Conductor Diameter	23AWG
Insulation Diameter	1.1±0.1mm
Sheath Material	PVC
Overall Diameter	6.6±0.2mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m



Installation Tension: <110N (short term), <20N (long term)



Indoor

Order Information

Model No.	Model Name	Package	Unit
APWT-6A-01	Cat.6a UTP Cable	305m/Box	Box





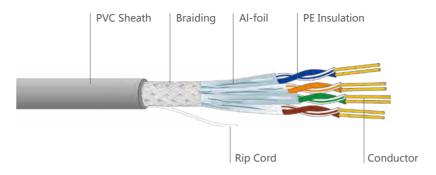
0~40°C

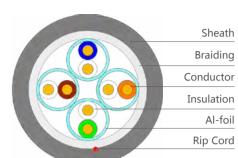


Operating Temp:

Cat.6A SFTP

Photo





Description

- > Provide 500MHz bandwidth in 100m, typical speed rate: 10Gbps
- > Optimized Cat.6a design(S/FTP) for high-level shield confidential system anti-EMI, used in horizontal cabling in working area and LAN indoor
- >High grade OFC (oxygen free copper) conductor, reliable transmission performance, meets or exceeds Cat.6a standard
- >Wrapping Al-foil paired separately and TC braid screen over 4p wires to improve anti-interference to 90dB, 25dB higher than UTP cable, used in EMI environment for high-level signal screen and confidentiality

SFTP Cable Bend Radius D1>=8D

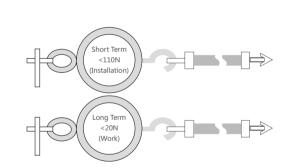
Installation Bend Radius: > 8x Diameter

Standard

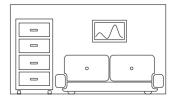
YD/T 1019-2013

Specification

Parameter	Data
Conductor Diameter	23AWG
Insulation Diameter	1.15±0.05mm
Sheath Material	PVC
Overall Diameter	7.6±0.3mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m



Installation Tension: <110N (short term), <20N (long term)



Indoor





Installation Temp:

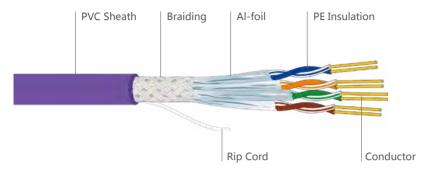
Operating Temp: -10~60°C

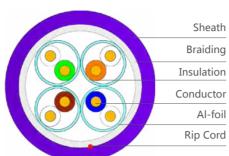
Order Information

Model No.	Model Name	Package	Unit
APWT-6A-01S	Cat.6 SFTP Cable	305m/Reel	Reel

Cat.7 SFTP Cable

Photo





Description

- >Provide 600MHz bandwidth in 100m, typical speed rate: 10Gbps
- >Optimizational Cat.7 design(S/FTP) for high-level shield confidential system anti-EMI, used in horizontal cabling in working area and LAN indoor
- > High grade OFC (oxygen free copper) conductor, chemical foam PE insulation, reliable transmission performance, meets and exceeds Cat.7 standard
- >Wrapping Al-foil paired separately and TC braid screen over 4p wires to improve anti-interference to 90dB, 25dB higher than UTP cable, used in EMI environment for high-level signal screen and confidentiality

Standard

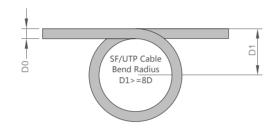
YD/T 1019-2013

Specification

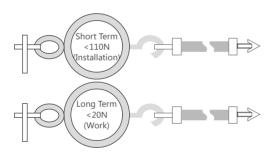
Parameter	Data
Conductor Diameter	23AWG
Insulation Diameter	1.2±0.05mm
Sheath Material	PVC
Overall Diameter	7.8±0.3mm
Indiviaul Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

Order Information

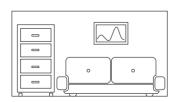
Model No.	Model Name	Package	Unit
APWT-7-01P	Cat.7 SFTP Cable	305m/Reel	Reel



Installation Bend Radius: > 8x Diameter



Installation Tension: <110N (short term), <20N (long term)



Indoor





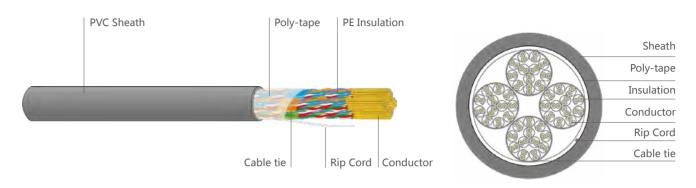
0~40°C



Operating Temp:

Cat.3 Multi-pair Cable

Photo



Description

- >Provide 16MHz bandwidth in 100m, typical speed rate: 20Mbps
- >It's widely used for backbone of indoor audio cabling.
- >High grade OFC (oxygen free copper) conductor, reliable transmission performance, meets or exceeds Cat.3 standard for both analog audio cabling and high quality digital audio system; core marked by complete color spectrum, perfect strand length for convenient installation

UTP Cable Bend Radius D1>=10D0

Installation Bend Radius: > 10x Diameter

Standard

YD/T 1019-2013 YD/T 926.2-2009

Specification

Parameter	Data
Conductor Diameter	0.4mm
Insulation Diameter	0.78±0.02mm
Sheath Material	PVC
Individual Conductor Resistance	≤ 14Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

<110N (short term), <20N (long term)

Indoor



<20N



Installation Tension:

Installation Temp: 0~40°C

Order Information

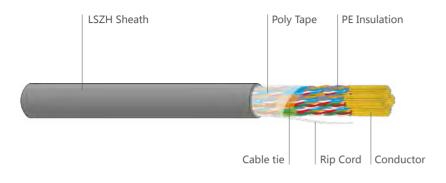
Wooden reel, 305m(1000FT)/Reel

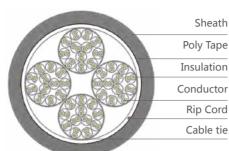


Network & Data Cable Generic Cabling System

Cat.3 Multi-pair Cable LSZH

Photo





Description

- >Provide 16MHz bandwidth in 100m, typical speed rate: 20Mbps
- >It's widely used for backbone of indoor audio cabling
- >Comparing with normal PVC jacket, LSZH emits much lower smoke emission when burnt (IEC 61034), chloric acid <2mg/g (IEC 60754), decreasing smoke density and hazards for escape and rescue, eco-friendly product
- >High grade OFC (oxygen free copper) conductor, reliable transmission performance, meet or exceeds Cat.3 standard for both analog audio cabling and high quality digital audio system; core marked by complete color spectrum, perfect strand length for convenient installation

Standard

YD/T 1019-2013 YD/T 926.2-2009 GB/T 17650.1-1998 GB/T 17651.1-2-1998 IEC 61034 IEC 60754

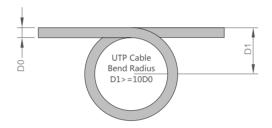
Specification

Parameter	Data
Conductor Diameter	0.4mm
Insulation Dimeter	0.78±0.02mm
Sheath Material	LSZH
Individual Conductor Resistance	≤ 14Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

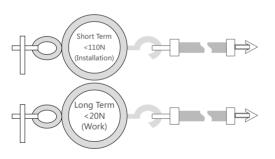
Order Information

Wooden reel, 305m(1000FT)/Reel





Installation Bend Radius: > 10x Diameter



 ${\footnotesize Installation Tension:} \\ <110N \ (short term), \ <20N \ (long term)$



Indoor



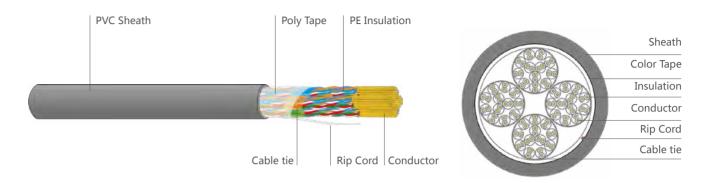


Installation Temp: 0~40°C

Operating Temp: -10~60°C

Cat.5e Multi-pair Cable

Photo



Description

- >Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps
- >It's widely used for backbone of indoor audio cabling & Data system (Cat.5 Standard)
- > High grade OFC (oxygen free copper) conductor, reliable transmission performance, meet or exceeds Cat.5 standard for both analog audio cabling and high quality digital audio system; core marked by complete color spectrum, perfect strand length for convenient installation

Standard

YD/T 1019-2013 YD/T 926.2-2009

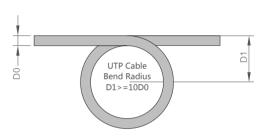
Specification

Parameter	Data
Conductor Diameter	0.5mm
Insulation Diameter	0.88±0.02mm
Sheath Material	PVC
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

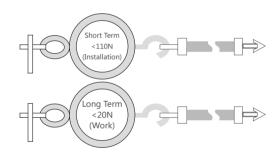
Order Information

Wooden Reel, 305m(1000FT)/Reel

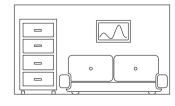




Installation Bend Radius: > 10x Diameter



Installation Tension: <110N (short term), <20N (long term)



Indoor

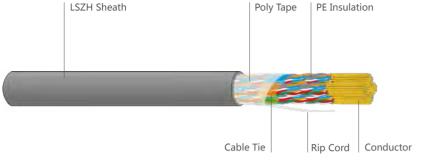


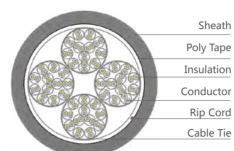
-10°C -60°C

Operating Temp:

Cat.6 Multi-pair Cable LSZH

Photo





Description

- > Provide 100MHz bandwidth in 100m, typical speed rate: 100Mbps.
- > It's widely used for backbone of indoor audio cabling
- > Comparing with normal PVC jacket, LSZH emits much lower smoke emission when burnt (IEC 61034), chloric acid <2mg/g (IEC 60754), decreasing smoke density and hazards for escape and rescue, ecofriendly product
- > High grade OFC (oxygen free copper) conductor, reliable transmission performance, meet or exceeds Cat.6 standard for both analog audio cabling and high quality digital audio system; core marked by complete color spectrum, perfect strand length for convenient installation

Standard

YD/T 1019-2013 YD/T 926.2-2009 GB/T 17650.1-1998 GB/T 17651.1-2-1998 IEC 61034 IEC 60754

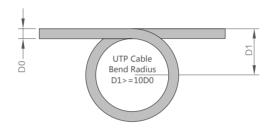
Specification

Parameter	Data
Conductor Diameter	0.5mm
Insulation Diameter	0.88±0.02mm
Sheath Material	LSZH
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric , DC,1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m

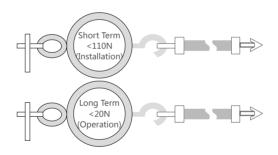
Order Information

Wooden Reel, 305m(1000FT)/Reel





Installation Bend Radius: > 10x Diameter



 ${\footnotesize Installation Tension:} \\ <110N \ (short term), \ <20N \ (long term)$



Indoor



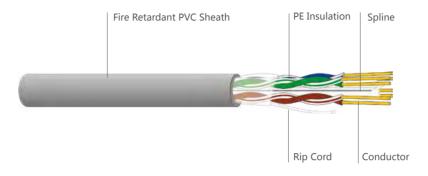


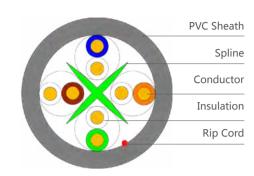
Installation Temp: 0~40°C

Operating Temp:

Cat.6 4-pair CMR rated UTP Cable

Photo





Description

- >Provides 30 mins duration for fire rescue.
- >Meets or exceeds ANSI/TIA 568-C.2 standards.
- >UL certification approval.
- >UL 1666 test approval.
- >Good fire retardant property. Burns but will self extinguish when flame is removed.

Standard

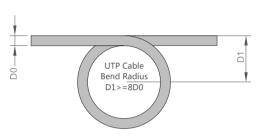
ANSI/TIA 568-C.2 NEC 770 NEC 800

Specification

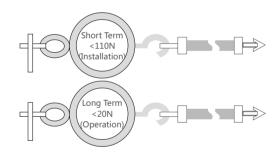
Item	Data
Conductor Diameter	23AWG
Insulation Diameter	0.94±0.02mm
Sheath Material	PVC
Overall Diameter	6.0±0.2mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric , DC,1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m
Flammability	Maxmium Flame Spread Distance: <3.6m Fire Size: 154kW for 30mins

Order Information

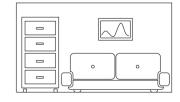
Model No.	Model	Length	Unit
APWT-6UR-WH	Cat.6 CMR 4P UTP	305M/Box	Box



Installation Bend Radius: > 8x Diameter



Installation Tension: <110N (short term), <20N (long term)



Indoor



-10°C -60°C

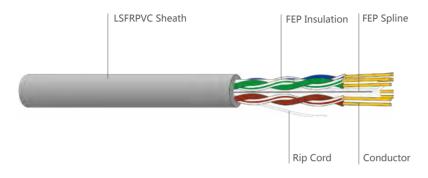
Installation Temp: Open 0~40°C

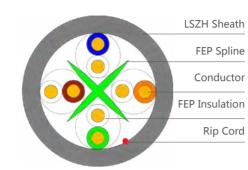
Operating Temp: -10~60°C

Network & Data Cable Generic Cabling System

Cat.6 4-pair UTP Cable (CMP rated)

Photo





Description

- >FEP material has 95% Oxygen Index with 800° C melting point.
- >Smoke density is 15% lower than the standard. Decrease hazards for escape and rescue.
- >Meets or exceeds ANSI/TIA 568-C.2 standard.
- >UL Certification Approval
- >UL 910 Approval
- >High Fire Resistance, low smoke, low corrosion, no leakage. Burns but will self extinguish when flame is removed

UTP Cable Bend Radius D1>=8D0

Installation Bend Radius: > 8x Diameter

Standard

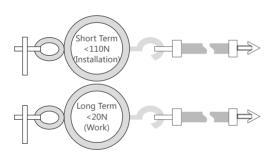
ANSI/TIA 568-C.2 NEC 770 NEC 800

Specification

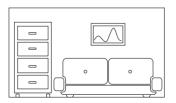
	Data
Conductor Diameter	23AWG
Insulation Diameter	0.94±0.02mm
Sheath Material	PVC
Overall Diameter	5.6±0.2mm
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Capacity Max	≤ 5.6nF/100m
Flammability	Maximum Flame Spread Distance: <1.5m Fire Size: 88kW for 20mins

Order Inforamtion

Model No.	Model	Length	Unit
APWT-6UP-BU	Cat.6 CMP 4P UTP Cable	305M/Box	Вох



Installation Tension: <110N (short term), <20N (long term)



Indooor



Installation Temp: 0~40°C

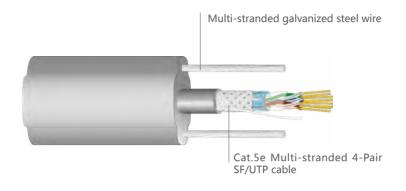
-10°C -60°C

Operating Temp:

-10~60°C

TVVBG Cat.5e SF/UTP Flat Elevator Cable

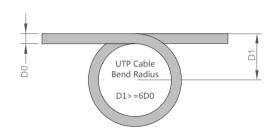
Photo





Description

>Flat elevator cable is widely applied for multiple purpose. It is consist of Cat.5e multi-stranded 4-pair SF/UTP cable and 2 multi-stranded galvanized steel wires.



Standard

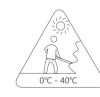
GB/T 5023.6-2006 IEC 60227-6 : 2011

Installation Bend Radius: > 6x Diameter

Mechanical Characteristics:
Max Working Height: 150M;
Max Free Suspension Length: 80M
Max Travelling Speed: 6.3M/S;
Max Travelling Acceleration: 1.2M/S²

Specification

Parameter	Data
Conductor Diameter	7/0.18mm
Overall Dimension :	15.1±0.5mm*8.0±0.4mm
Outer Sheath	qualify for elevator cable
Steel Wire Material	Multi-stranded galvanized steel wire
Individual Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dieletric, DC, 1min	1Kv/1min
Work Capacitance	≤ 5.6nF/100m



Installation Temp: 0~40°C

operating Temp:

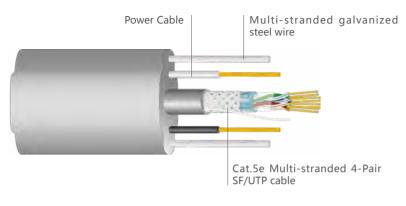
Order Information

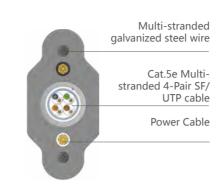
Model No.	Length	Unit
TVVBG Cat.5e SF/UTP Flat Elevator Cable	Per request	Meter



TVVBG Cat.5e SF/UTP+2x0.75 Flat Elevator Cable

Photo



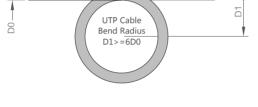


Description

>Flat elevator cable is widely applied for multiple purpose, it is consist of two power cables, Cat.5e Multi-stranded 4-Pair SF/UTP cable and two Multi-stranded galvanized steel wires.

Standard

GB/T 5023.6-2006 IEC 60227-6 : 2011



Installation Bend Radius: > 6x Diameter

Mechanical Characteristics: Max Working Height: 150M; Max Free Suspension Length: 80M Max Travelling Speed: 6.3M/S; Max Travelling Acceleration: 1.2M/S²

0°C - 40°C



Installation Temp: 0~40°C

Operating Temp: -15~70°C

Specification

Parameter	Data
Conductor Diameter	7/0.18mm
Overall Dimension	22.0±0.5mm*9.0±0.4mm
Outer Sheath Material	Qualify for elevator cable
Power Cable Conductor material	TR Annealing Copper
Power Cable Insulation	70°C PVC (Blue, Brown)
Steel Wire Material	Multi-stranded galvanized steel wire
0.75mm2 Conductor DCR	≤ 19.5Ω/km
Power Cable Voltage Test	2000V 5min no breakdown
Cat5e Conductor Resistance	≤ 9.5Ω/100m
DC Resistance Unbalance	≤ 2.5%
Dielectric, DC, 1min	1Kv/1min
Work Capacitance	≤ 5.6nF/100m

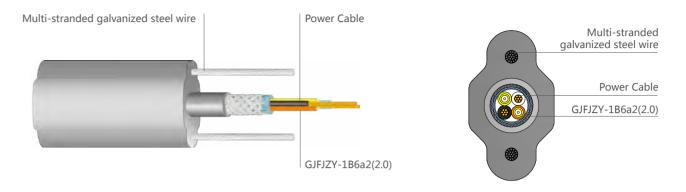
Order Information

Model No.	Length	Unit
TVVBG Cat.5e SF/UTP+2x0.75 Cable	Per request	Meter



TVVBG-2F 2F+2*RV0.75+2S Flat Elevator Fiber Optic Cable

Photo



Description

>Flat elevator optic fiber cable is widely applied for multiple purpose, it is consist of two multi-stranded galvanized steel wires, two power cables and two GJFJZY-1B6a2(2.0) tight-buffered fibers.

Standard

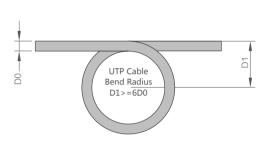
GB/T 5023.6-2006 IEC 60227-6: 2011

Specification

Parameter	Data
Overall Dimension	16.4±1.0mm*8.7±0.5mm
Outer Sheath Material	PVC/ST5
Steel Wire Material	High Strength galvanized Steel
Steel Wire Diameter	1.5mm
Power Cable Conductor	Annealing Copper
Power Cable Conductor Dimension	30/0.171 (±0.004mm)
Power cable Insulation	PVC/D (Black, White)
Power Cable Insulation Dimension	Avg Thickness: 0.4mm, Thinnest: 0.26mm
Power Cable 20°C Conductor DCR	≤ 26Ω/ km
Fiber model	GJFJZY-1B6a2(2.0)
Fiber Dimension	9/125
Tight Buffered Coating	TPEE
Tight Buffer Diameter	0.9±0.05mm
Strength Member	Aramid Yarn
Fiber Outer Sheath	LSZH (Yellow/Orange)
Fiber Attenuation	$@1300$ nm ≤ 1.5 dB/km $@850$ nm ≤ 3.5 dB/km
Fiber Short-term Tension	60N
Fiber Short-term Crush	500N/100mm

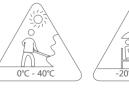
Order Information

Model No.	Length	Unit
TVVBG-2F 2F+2xRV0.75+2S	Per request	Meter



Installation Bend Radius: > 6x Diameter

Mechanical Characteristics : Max Free Suspension Length: 80M; Max Travelling Speed : 4M/S

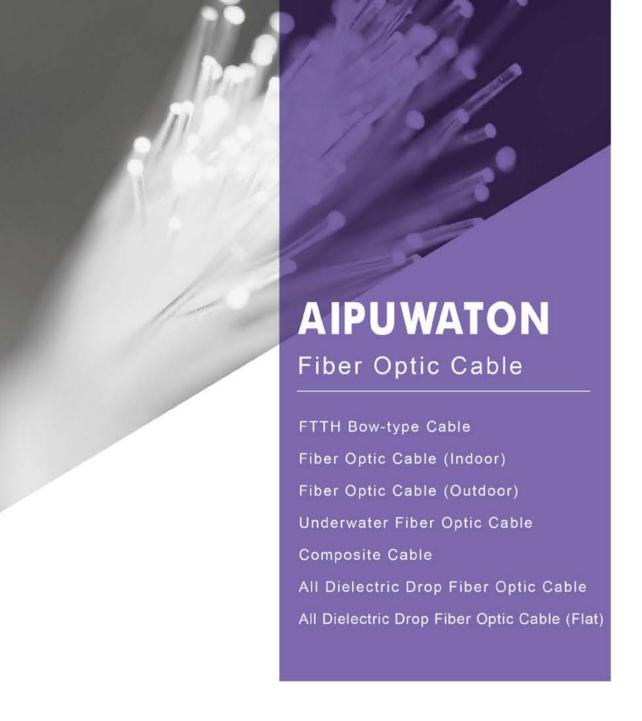


Installation Temp: 0~40°C





 \sim 38



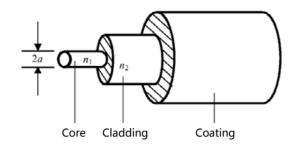


Fiber Optic Cable

Fiber Optic Cables

Description:

Fibre optic cables consist of glass threads, each capable of transmitting digital data modulated into light waves. They effectively send information coded in a beam of light through a glass or plastic pipe. A key advantage of fibre optic cables over metal conductor cables is their superior performance in terms of bandwidth and therefore data carrying performance. Optical fibre cables are generally lighter and less susceptible to electromagnetic interference, however optical fibre tends to be more fragile than cables with a metal conductor.



Single Cladding Optic Fiber Construction:

Centered Core:

Diameter= $4\mu m \sim 50\mu m$, for single-mode optic fiber= $4\mu m \sim 10\mu m$, for multi-mode optic fiber= $50\mu m$.

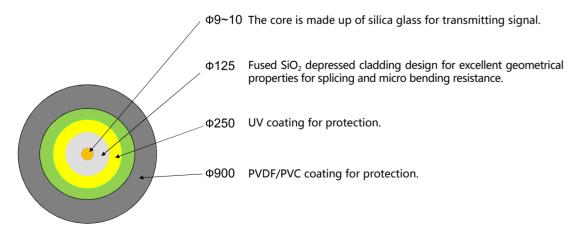
The core is in the very centre of the cable and is the medium of propagation for the signal. The core is made of silica glass or plastic with a high refractive index.

Cladding:

Glass or plastic with a lower index of refraction than the core. The cladding is a material of lower index of refraction which surrounds the core. This difference in index forms a mirror at the boundary of the core and cladding. Because of the lower index, it reflects the light back into the centre of the core, forming an optical wave guide.

Coating:

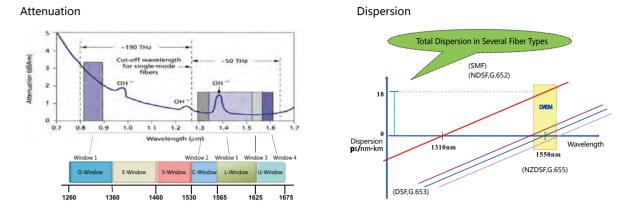
The coating is a protective layer around the outside of the cladding. It is typically made of a thermoplastic material for tight buffer construction and a gel material for loose buffer construction. As the name implies, in tight buffer construction, the buffer is extruded directly onto the fibre, tightly surrounding it. Loose buffer construction uses a gel filled tube which is larger than the fibre itself. Loose buffer construction offers a high degree of isolation from external mechanical forces such as vibration. Tight buffer construction on the other hand provides for a smaller bend radius, smaller overall diameter, and crush resistance. To further protect the fibre from stretching during installation, and to protect it from expansion and contraction due to temperature changes, strength members are added to the cable construction. These members are made from various materials from steel (used in some multi-strand cables) to Kevlar. In single and double fibre cables, the strength members are wrapped around the coating. In some multi-strand cables, the strength member is in the centre of the bundle. The jacket is the last item in the construction, and provides the final protection from the environment in which the cable is installed. Of concern here is the intended placement of the cable. Different jackets provide different solutions for indoor, outdoor, aerial, and buried installations.



Tight buffered optic fiber construction

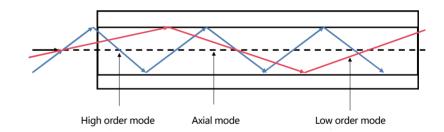
Note: The diagram is for reference only. The actual product may differ.

Light Physics



Types Of Optical Fiber

Fiber can be identified by the type of paths that the light rays, or modes, travel within the fiber core. There are two basic types of fiber: multimode and single-mode.



Light passes through the cable, bouncing off the cladding until it reaches the other end of the fiber channel - this is called total internal reflection.

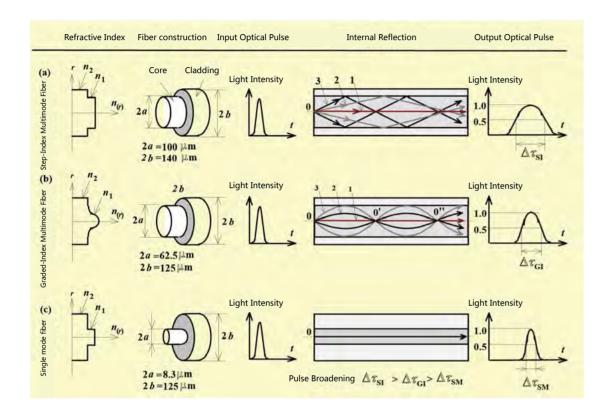
Single and multi-mode optic fiber:

Туре	Multi-mode	Single mode
Defination	support multiple transverse electromagnetic modes	Only support single mode transmission
Advantage	Have a larger cores that guide many modes simultaneously.	Higher bandwidth than Multi-mode cable. Employ for long distance application.
Drawback	Allows greater dispersion, high attenuation. Used for short distance application.	High cost, launching of light into single mode is difficult.
Type of Laser	LED	VCSEL

Single mode or multi-mode transmission?

The type of optic fiber is determined by the construction of the fiber and the light pulse during the data transmission.

Туре	Single mode	Multi-mode
Defination	Carries light pulse along single path. Only the lowest order mode propagate in the fiber and all higher order modes are under cut-off condition. Propagation through single mode due to the geometry of core.	A type of fiber optic cable where the core diameter is much larger than the wavelength of light transmitted which allows light beams to travel following a variety of paths (or multiple modes).
Core Dimensi	8-10um	50um\62.5um



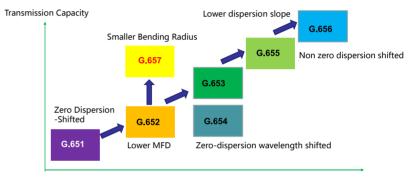
Optic Fiber Category

Product Type	Main features and applications
G651 (Multimode)	850nm and 1300nm working window optimized multimode fiber.
G652	Zero dispersion in 1310nm working window; Lowest loss in 1550nm working window.
G653	Zero dispersion shifted from 1310nm to 1550nm, lowest loss in 1550nm working window.
G654	Pure silica fiber , lowest attenuation in 1550nm working window (only0.185dB/km) , suitable for long distance transmission under seas.
G655	Using nonzero dispersion-shifted fiber (NZDSF) can mitigate nonlinear characteristics. NZDSF fiber overcomes these effects by moving the zero-dispersion wavelength outside the 1550-nm operating window. Suitable for long distance transmission.
G656	Non-Zero Dispersion Shifted Fibre (NZDSF) solutions for long haul DWDM transmission application
G657	bending-loss insensitive single-mode optical fibre

IEC and ITU-T Category

Name	ITU-T	IEC	
Multi-mode 50/125	50/125 micron graded-index fiber	G.651	Ala、Alb、Alc和Ald
Fiber	Fiber 50/125 micron step-index fiber	A2、A3和 A4	
	Non dispersion-Shifted Fiber	G.652 : A、B、C、D	B1.1、B1.3
	Dispersion-Shifter Fiber	G.653	B2
Fiber Nonzero Dispe	cut-off shifted optical fibre	G.654	В3
	Nonzero Dispersion Shifted Fiber	G.655 : A、B、C	B4
	bending-loss insensitive optical fibre	G.657 A、B	B6

Optic fiber innovation



Transmission Distance

Color Codes and Counting Directions for Fiber Optic Cables

12 Fiber Color Codes



Color Tubes End A End B



Fiber Optic Cable

Generic Cabling System

www.aipu-waton.com

Single Mode Optic Fiber

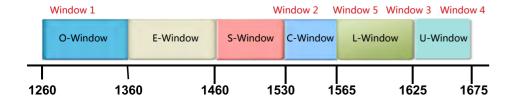
G.652.D Specification

Geometrical Characteristics			
Cladding Diameter	125.0±1.0μm		
Cladding Non-circularity ≤ 1.0%			
Coating Diameter	242±7 μm		
Cladding-Coating Concentricity Error	≤ 12.0µm		
Coating-Non-circularity	≤ 6.0%		
Core-Cladding Concentricity Error	≤ 0.6µm		
Curl	≥ 4 µm		
Optic Cha	aracteristics		
	≤ 0.35dB/km@1310nm		
Attenuation non-cabled fiber	≤ 0.35dB/km@1383nm		
Attenuation non-capied liber	≤ 0.22dB/km@1550nm		
	≤ 0.30dB/km@1625nm		
	≤ 3.0ps/(nm.km)@1285nm ~ 1340nm		
Chromatic Dispersion	≤ 18ps/(nm.km)@1550nm		
	≤ 22ps/(nm.km)@1625nm		
Zero Dispersion Wavelength	1302-1322nm		
Zero Dispersion Slope	≤ 0.091ps/(nm.km)		
Macrobending Attenuation	0.1dB@Radius 30mm*100 turns, 1625nm		
P	MD		
Maximum Individual Fiber	≤ 0.2ps/ √ km		
Link Design Value	≤ 0.08ps/ √ km		
Fiber Cutoff Wavelength λc	1180-1330nm		
Cable Cutoff wavelength λcc	≤ 1260nm		
	Standard Value : 9µm		
Mode Field Diameter	9.2±0.4 μm@1310nm		
	10.4±0.8 μm@1550nm		
Effective Group Refraction Index	1.466@1310nm		
Effective Gloup Refraction Index	1.467@1550nm		
Backscatter Characteristics (@1310nm@1550nm)			
Splicing Loss average	≤ 0.05dB		
Attenuation Discontinuity	≤ 0.05dB		
Bidirectional Attenuation	≤ 0.03dB/km		
Attenuation Uniformity	≤ 0.01 dB/km		

G.652 Single Mode Fiber Category

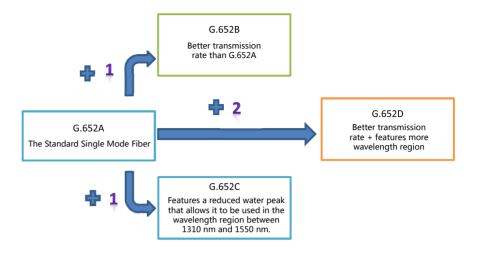
Parameter	G.652.A	G.652.B	G.652.C	G.652.D
Working Window	С	C+L	O+E+S+C+L	O+E+S+C+L
Attenuation@1310nm (dB/km)	≤ 0.5	≤ 0.4	≤ 0.4	≤ 0.35
Attenuation@1383nm (dB/km)			≤ 0.4	≤ 0.4
Attenuation@1550nm (dB/km)	≤ 0.4	≤ 0.35	≤ 0.3	≤ 0.3
Attenuation@11625nm (dB/km)		≤ 0.4	≤ 0.4	≤ 0.4
PMDQ (Ps√km)	≤ 0.5	≤ 0.2	≤ 0.5	≤ 0.2

G.652 Single Mode Fiber Spectral Window



Fiber Optic Cable www.aipu-waton.com Generic Cabling System

G.652 Single Mode Fiber Characteristics



Multimode Optic Fiber

G.651 Multimode Optic Fiber

Geometrical Characteristics		
Core Diameter	62.5±2.5μm	
Cladding Diameter	125±2μm	
Core-Cladding Concentrisity Error	≤ 1.5%	
Cladding Non-Circularity	≤ 2%	
Core Non-Circularity	≤ 6%	
Coating Diameter (Uncolored)	245±10μm	
Coating Diameter (Colored)	245±15μm	
Cladding-Coating Concentrisity Error	≤ 12.5µm	
Optical Charac	cteristics	
Fiber Category	A	
Attenuation@850nm	≤ 3.50dB/km	
@1300nm	≤ 2.20dB/km	
Bandwidth@850nm	≥ 200MHz.km	
@1300nm	≥ 200MHz.km	
Numerical Aperture	0.275±0.015	
Backscatter Character	ristics (1300nm)	
Point Discontinuity	≤ 0.1dB	
Attenuation Non-uniformity	≤ 0.1dB	
Bidirectional Attenuation	≤ 0.1dB/km	
Environmental Characteristics @850nm W	Vavelength and 1300nm Wavelength	
Temperature Dependence Induced Attenuation (-60°C ~+85° C)	≤ 0.15dB/km	
Dry Heat Aging Induced Attenuation (85° C±2° C , 30 Days)	≤ 0.20dB/km	
Water Soak Dependence Induced Attenuation (23° C±2° C , 30 Days)	≤ 0.20dB/km	
Temperature Humidity Cycling Induced Attenuation (85° C±2° C, RH85%, 30 Days)	≤ 0.20dB/km	
Mechanical Characteristics		
Tensile Proof Test	≥ 0.69GPa(100kpsi)	
Coating Strip Force	1.4N	
Dynamic Fatigue Parameter	≥ 20	
Macrobending Attenuation (100 turns , 75mm diameter)	, 0 E d D	
@850nm wavelength and 1300nm wavelength	≤ 0.5dB	
(62 5/125um Multimode	Eiber Checification)	

(62.5/125µm Multimode Fiber Specification)

Fiber Optic Cable
Generic Cabling System www.aipu-waton.com

G.651 Multimode Optic Fiber

Geometrical Characteristics					
Core Diameter	50±2.5μm				
Core Non-Circularity	≤ 6.0%				
Cladding Diameter	125±2µm				
Cladding Non-Circularity	≤ 2.0%				
Core-Cladding Concentrisity Error	≤ 1.5µm				
Coating Diameter	245±10μm				
Cladding-Coating Concentrisity Error	≤ 12.0µm				
Optical Characteris	tics				
Fiber Category	А				
Attenuation @850nm Wavelength	≤ 3.50dB/km				
Attenuation @1300nm Wavelength	≤ 2.20dB/km				
Attenuation @850nm Wavelength	≥ 500MHz.km				
Attenuation @1300nm Wavelength	≥ 1000MHz.km				
Numerical Aperture	0.20±0.02				
Backscatter Characteristic	s(1300nm)				
Point Discontinuity	≤ 0.10dB				
Attenuation Non-uniformity	≤ 0.10dB				
Bidirectional Attenuation	≤ 0.1dB/km				
Environmental Characteristics @850nm Wavele	ength and 1300nm Wavelength				
Temperature Dependence Induced Attenuation (-60°C \sim +85° C)	≤ 0.15dB/km				
Dry Heat Aging Induced Attenuation ($85^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 30 Days)	≤ 0.20dB/km				
Water Soak Dependence Induced Attenuation (23° C±2 $^{\circ}$ C , 30 Days)	≤ 0.20dB/km				
Temperature Humidity Cycling Induced Attenuation (85° C±2°C , RH85% , 30 Days)	≤ 0.20dB/km				
Mechanical Characte	ristics				
Tensile Proof Test	≥ 0.69GPa(100kpsi)				
Coating Strip Force	1.4N				
Dynamic Fatigue Parameter	≥ 20				
Macrobending Attenuation (100 turns , 75mm diameter) @850nm wavelength and 1300nm wavelength	≤ 0.5dB				

(50/125µm Multimode Optic Fiber Specification)

Fiber Optic Cable
www.aipu-waton.com
Generic Cabling System

G.651 10GB/S Multimode Optic Fiber

Core Diameter	Optical Characteristics	50.0		
C N C' 1 '		50±2.	5µm	
Core Non-Circularity	≤ 6.	0%		
Cladding Diameter	125.0±2.0μm			
Cladding Non-Circularity	≤ 1.0%			
Coating Diameter		245±10μm		
Cladding-Coating Concentrisity I	Error	≤ 12.	5μm	
Cladding Non-Circularity		≤ 6.		
Core-Cladding Concentrisity En	ror	≤ 1.5	iμm	
	Optical Characteristics			
	@850nm	≤ 3.5d	B/km	
Attenuation	@1300nm	≤ 2.2d	B/km	
Effective Mode Bandwidth	@850nm	≥ 2000N	/IHz.km	
0 (11 11 1 2 1 11)	@850nm	≥ 1500N	ИНz.km	
Overfilled Launch Bandwidth	@1300nm	≥ 500M	Hz.km	
10Gb/s Ethernet link length	SX(850nm)	300)m	
DMD	@850nm	See Stand	ard below	
	DMD	Internal Standard	External Standard	
Note :	Standard	(5-8µm Radius)	(0-23µm Radius)	
FOTP-203 standard : The minimum effective modal	1	0.33ps/m	0.33ps/m	
bandwidth (EMB) requirement for fibers to support	2	0.27ps/m	0.35ps/m	
the 300 m link length for 10 Gigabit Ethernet is	3	0.26ps/m	0.40ps/m	
2000 MHz•km.	4	0.25ps/m	0.50ps/m	
	5	0.24ps/m	0.60ps/m	
	6	0.23ps/m	0.70ps/m	
Numerical Aperture (NA)	0.200±0.015			
Crown Defractive Index	@850nm	1.482		
Group Refractive Index	@1300nm	1.477		
Zero Dispersion Wavelength		1295-1320nm		
Zaro Dispersion Slane	1295-1300nm	$\leq 0.001(\lambda 0 - 1190) ps/(n m^2.km)$		
Zero Dispersion Slope	1300-1320nm	≤ 0.011ps/	(n m².km)	
Backscatt	ter Characteristics (@130	00nm)		
Bidirectional Attenuation		≤ 0.1dB		
Attenuation Non-uniformity		≤ 0.1dB		
Environmental Characteristi	ics @850nm Wavelength	and 1300nm Wavelength		
Temperature Dependence Induced Attenuation (-60°C ~+85° C)		≤ 0.15dB/km		
Dry Heat Aging Induced Attenuation		≤ 0.20dB/km		
(85°C \pm 2°C , 30 Days) Water Soak Dependence Induced Attenuation (23° C \pm 2°C , 30 Days)		≤ 0.20dB/km		
Temperature Humidity Cycling Induced Attenuation (85° C±2°C, RH85%, 30 Days)		≤ 0.20dB/km		
	lechanical Characteristics			
Tensile Proof Test		≥ 0.69GPa(100kpsi)		
Coating Strip Force		1.4N		
Dynamic Fatigue Parameter		≥ 20		
Macrobending Attenuation (100 turns , 75mm diameter) @850nm wavelength and 1300nm wavelength		≤ 0.5dB		

(New Generation 50/125µm Multimode Optic Fiber Specification)

www.aipu-waton.com

www.aipu-waton.com

Fiber Optic Cable Generic Cabling System

G.657A Single Mode Optic Fiber Specification

Geometrical Characteritic	cs
1310nm Mode Field Diameter	8.6~9.5μm
Cladding Diameter	125±0.7μm
Cladding Non-Circularity	≤ 1.0%
Core-Cladding Concentrisity Error	≤ 1.5µm
Coating Diameter	245±10μm
Cladding-Coating Concentrisity Error	≤ 12.5µm
Optical Characteristics	
Fiber Category	А
Attenuation @1310nm Wavelength	≤ 0.40dB/km
Attenuation @1550nm Wavelength	≤ 0.3dB/km
Attenuation @1625nm Wavelength	≤ 0.28dB/km
Macrobending Attenuation Max@1550nm , 10 Turns , Radius 15mm	0.25dB
Macrobending Attenuation Max @1550nm , 1 Turn , Radius 10mm	0.75dB
Macrobending Attenuation Max @1625nm , 10 Turns , Radius 15mm	1.0dB
Macrobending Attenuation Max @1625nm , 1 Turn , Radius 10mm	1.5dB
Zero Dispersion Wavelength	1300~1324nm
Zero Dispersion Slope	0.092ps/(nm2.km)
Optical Characteritics @1550nm V	Vavelength
Temperature Dependence Induced Attenuation (-60°C \sim +85° C)	≤ 0.05dB/km
Dry Heat Aging Induced Attenuation ($85^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 30 Days)	≤ 0.05dB/km
Water Soak Dependence Induced Attenuation (23° C± 2° C , 30 Days)	≤ 0.05dB/km
Temperature Humidity Cycling Induced Attenuation (85° C±2°C , RH85% , 30 Days)	≤ 0.05dB/km
Mechanical Characteritic	rs
Tesile Proof Test	≥ 0.069GPa
Proof Testing Zone	≥ 1%
Coating Strip Force Avg	3N
Coating Strip Force Max	8N

G.657A Optic Fiber Introduction

factor has to be improved accordingly.

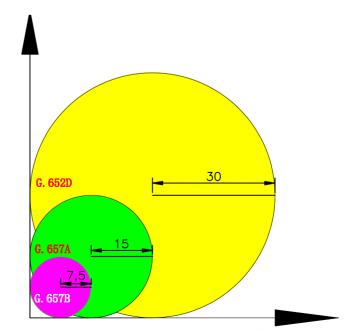
mode fiber provides for a high-capacity transmission medium which can answer the growing demand for broadband services. The experience with the installation and operation of single-mode fiber and cable-based networks is huge, and Recommendation ITU-T G.652 which describes its characteristics has been adapted to this experience. Nevertheless, the specific use in an optical access network puts different demands on the fiber and cable which impacts its optimal performance characteristics. Differences with respect to the use in the general transport network are mainly due to the high density network of distribution and drop cables in the access network. The limited space and the many manipulations ask for operator-friendly

fibre performance and low bending sensitivity. In addition, the cabling in the crowded telecom offices where space is a limiting

Worldwide, technologies for broadband access networks are advancing rapidly. Among these, the technology applying single-

The G.657 standard was developed by the International Telecommunications Union (ITU) to provide consistency in the evolving requirements for bend-insensitive single mode fiber. Operators and manufacturers jointly worked on swift introduction of this Recommendation in 2006 and its updates in 2009 and 2012. The aim of Recommendation ITU-T G.657 is to support optimization by recommending strongly improved bending performance compared with the existing ITU-T G.652 single-mode fiber and cables. This is done by means of two categories of single-mode fibers, one of which, category A, is fully compliant with the ITU-T G.652 single-mode fibers and can be deployed throughout the access network. The other, category B, is not necessarily compliant with Recommendation ITU-T G.652 but is capable of low values of macrobending losses at very low bend radii and is intended for use inside buildings or near buildings. These category B fibers are system compatible with ITU-T G.657. A (and ITU-T G.652.D) fibers in access networks. Macrobend improved G.657 fibres have become popular in outside plant (OSP) installations in recent years as their bend resistance enables smaller cable designs (aka mini-cables) and low costs installations techniques. Since its introduction, ITU-T G.657 optical fibre cables have seen a steady increase in the total optical fibre cable market.

AIPU WATON fiber exceeds the requirments of G.657.A standard and is fully compatible with G.652.D fibers.



Fiber Model	G.657A	G.657B
Rmin	10mm	7.5mm
Bending Loss	Low	Very Low
G652 Compatability	Full	Not neccessary

Fiber Bend Radius comparison: G.657 VS G.652 Unit(mm)

Fiber Optic Cable
Generic Cabling System www.aipu-waton.com

Optic Fiber Category

1000Mbps Ethernet Application

Fiber Category	Application	Fiber Diameter (µm)	Wavelength (nm)	Bandwidth (MHz)	Distance (m)			
	1000Base-SX		850	160	220			
	1000Page IV	62.5		200	275			
	1000Base-LX	e-LX		500	550			
Multimode	1000Base-SX				850	950	400	500
		030	500	550				
	1000Page IV	50 LX	50	1200	400	550		
	1000Base-LX		1300	500	550			
Single Mode	1000Base-LX	<10	1310	NA	5000			

10G Ethernet Application

Fiber Category	Application	Fiber Diameter (µm)	Wavelength (nm)	Bandwidth (MHz*km)	Distance (m)
				160/150	26
		62.5		200/500	33
	10GBase-S		850	400/400	66
Multimode		50		500/500	82
Multimode				2000/-	300
	10GBase-LX4	62.5	1300	500/500	300
		50		400/400	240
		30		500/500	300
	10GBase-L		1310	NA	1000
Single mode	10GBase-E	<10	1550	NA	30000~40000
	10GBase-LX4		1300	NA	1000

Fiber Optic Cable www.aipu-waton.com Generic Cabling System

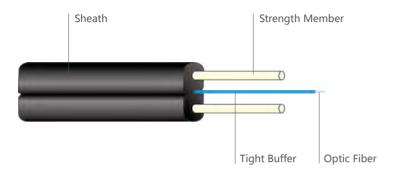
Fiber Optic Installation

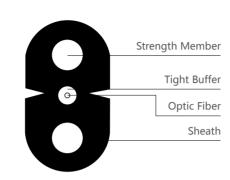
Installation Type	GYXTW	GYTA	GYTS	GYTA53	GYTY53	GJFJV	GJFJZ	GJFJH	GJXH	GJXFH	GJYXCH	GJYXFCH
Aerial (Non Self- Supporting)	0	0	0	0	0	-	-	-	-	-	0	0
Aerial (Self- supporting)	-	-	-	-	-	-	-	-	-	-	0	0
Underground Conduit	0	0	0	0	0	-	-	-	-	-	-	-
Direct Burial	-	-	-	0	0	-	-	-	-	-	-	-
Cable in Trays	0	0	0	0	0	0	0	0	0	0	0	0
Horizontal Duct	-	-	-	-	-	0	0	0	0	0	0	0
Indoor/Outdoor	Out	Out	Out	Out	Out	In	In	In	In	In	Both	Both

Note: O Available -Not recommended

Invisible Indoor bow-type Fiber Optic Cable-GJXFJH

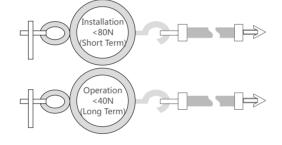
Photo





Description:

- >Invisible micro-cable consists of optic fiber and tight buffer, whose outer diameter is usually 900 μ m. Dimension: 2X3.0mm bow-type
- >Great bending performance and high durable
- >Virtually invisible installation : Glass cement stick is added into the gel heating gun to be activated and to bond and fix the cable with wall along the route



Tension : Short Term: <=80N, Long Term: <=40N

Standard

YD/T 1997-2009 YD/T 1954-2009

Specification

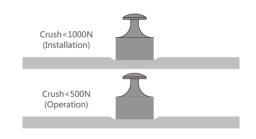
Mechanical Characteristics

Parameter	Unit	Data		
		PVC	LSZH	
Tensile Strength	MPa	12.5	10	
Elogation	%	150	125	

Separability: convenient split fiber 200mm, tensile strength: 3N \sim 10N.

Transmission: size, mode field diamter, cut-off wavelength, macrobend loss, etc. compliance with YD/T 1954-2009, GB/T 9771.1 or GB/T 9771.3.

Fiber	Wavelength (nm)	Attenuation (dB/km)
B6a	1310	0.4
DOd	1550	0.3



Crush: Short term: <=1000N Long term: <=500N

Order Information

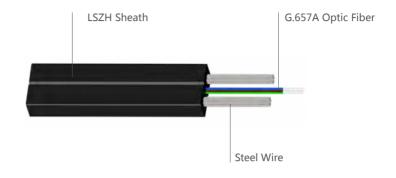
Wooden Reel , 1000m, 2000m per reel.

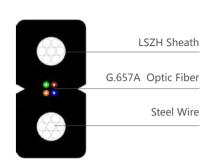


FTTH Optic Fiber Bow-type Drop Cable- GJXH

Photo

www.aipu-waton.com





Description

- > Metal strength member, LSZH sheath, bow-type drop cable
- > In FTTH application, low-cost and good adaptability, meet design and conntion requirement for all kinds of drop cable; excellent anti-curved ability, support crowded cabling, low bending loss at small bend radius and high mechanical reliability, easy installation and distribution
- > Suitable for FTTH indoor application, dimension: 2X3.0mm bowtype, steel wire strength member at each size, LSZH sheath, 1~4 cores G.657A optic fibers

Standard

YD/T 1997-2009 YD/T 1954-2009

Specification

Mechanical Characteristics

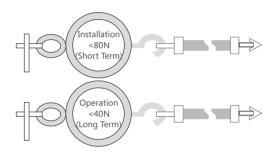
	Unit	Data		
		PVC	LSZH	
Tensile Strength	MPa	12.5	10	
Elogation	%	150	125	

Separability: convenient split fiber 200mm, tensile strength: 3N \sim 10N.

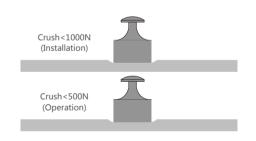
Transmission: size, mode field diamter, cut-off wavelength, macrobend loss, etc. compliance with YD/T 1954-2009, GB/T 9771.1 or GB/T 9771.3.

Optical Characteristics

Fiber	Wavelength (nm)	Attenuation (dB/km)
B6a	1310	0.4
БОа	1550	0.3



Tension : Short Term: <=80N, Long Term: <=40N



Short term: <=1000N Long term: <=500N

Order Information

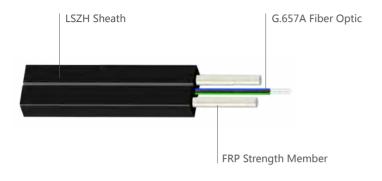
Wooden Reel , 1000m, 2000m per reel.



www.aipu-waton.com Generic Cabling System

FTTH Bow-Type Drop Cable- GJXFH

Photo





Description

- > Metal strength member, LSZH sheath, bow-type drop cable.
- > In FTTH application, low-cost and good adaptability, meet design and conntion requirement for all kinds of drop cable; excellent anti-curved ability, support crowded cabling, low bending loss at small bend radius and high mechanical reliability, convenient installation and distribution
- > Used for FTTH indoor, dimension: 2X3.0mm bow-type, steel wire strength member at each size, LSZH sheath, fiber: $1\sim4$ cores G.657A
- > Suitable for FTTH application

Standard

YD/T 1997-2009 YD/T 1954-2009

Specification

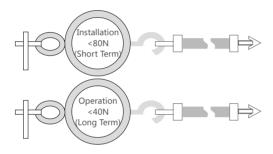
Mechanical Characteristics

Parameter	Unit	Data		
		PVC	LSZH	
Tensile Strength	MPa	12.5	10	
Elogation	%	150	125	

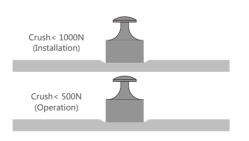
Separability: convenient split fiber 200mm, tensile strength: 3N \sim 10N.

Transmission: size, mode field diamter, cut-off wavelength, macrobend loss, etc. compliance with YD/T 1954-2009, GB/T 9771.1 or GB/T 9771.3.

Fiber	Wavelength (nm)	Attenuation (dB/km)
В6а	1310	0.4
	1550	0.3



 $\label{tension:Tension:Tension:Short Term: <= 80N Long Term: <= 40N}$



Crush:
Short Term: <=1000N Long Term: <=500N

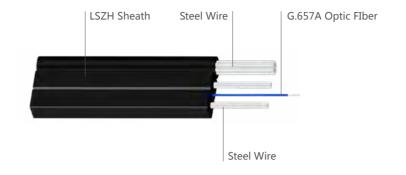
Order Information

Wooden Reel , 1000m, 2000m per reel.



FTTH Bow-type Drop Cable- GJYXCH

Photo





Fiber Optic Cable

Description

- > Metal strength member, LSZH sheath, bow-type self-supporting drop cable.
- > Suitable for FTTH outdoor application.

Standard

YD/T 1997-2009 YD/T 1954-2009

Specification

Mechanical Characteristics

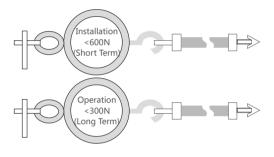
	Unit	Data		
		PVC	LSZH	
Tensile Strength	MPa	12.5	10	
Elogation	%	150	125	

Separability: convenient split fiber 200mm, tensile strength: 3N \sim 10N.

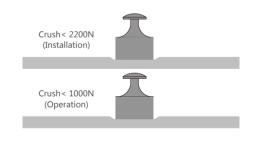
Transmission: size, mode field diamter, cut-off wavelength, macrobend loss, etc. compliance with YD/T 1954-2009, GB/T 9771.1 or GB/T 9771.3.

Optical Characteristics

Fiber	Wavelength (nm)	Attenuation (dB/km)
B6a	1310	0.4
DOd	1550	0.3



Tension : Short Term:<=600N Long Term : <=300N



Crush:
Short Term: <=2200N Long Term: <=1000N

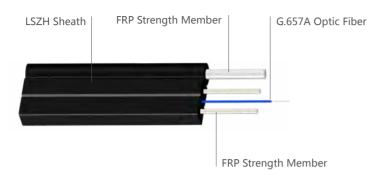
Order Information

Wooden Reel , 1000m, 2000m per reel.



FTTH Drop Cable- GJYXFCH

Photo





Description

- > Metal strength member, LSZH sheath, bow-type self-supporting drop cable.
- > Suitable for FTTH outdoor application.

Standard

YD/T 1997-2009 YD/T 1954-2009

Installation <600N (Short Term) Operation <300N (Long Term)

Specificaiton

Mechanical Characteristics

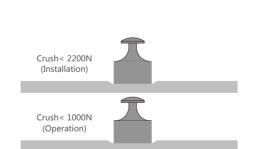
	Unit	Data		
		PVC	LSZH	
Tensile Strength	MPa	12.5	10	
Elogation	%	150	125	

Separability: convenient split fiber 200mm, tensile strength: 3N \sim 10N.

Transmission: size, mode field diamter, cut-off wavelength, macrobend loss, etc. compliance with YD/T 1954-2009, GB/T 9771.1 or GB/T 9771.3.

Optical Characteristics

Fiber	Wavelength (nm)	Attenuation (dB/km)
B6a	1310	0.4
БОа	1550	0.3



 $\label{eq:Crush:Crush:Crush:Short Term: <=2200N Long Term: <=1000N}$

Order Information

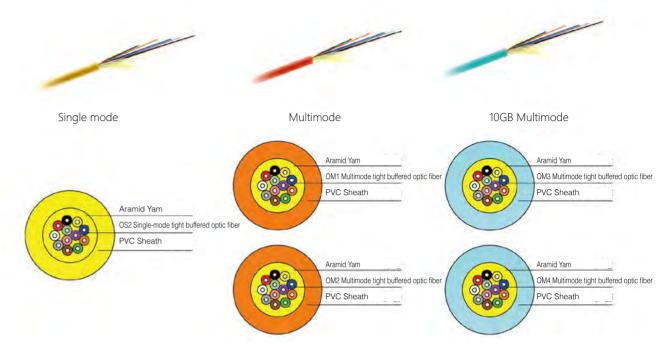
Wooden Reel , 1000m, 2000m per reel.



Indoor Optic Fiber Cable - GJFJV

Photo

www.aipu-waton.com



Description

>250µm diameter ultraviolet curing one-off coated fiber tightly covered to make 900µm diameter fiber, process sheath to multitight covered fiber and aramid yam to make optic fiber cable; Suitable for indoor cabling application. (max. 12 cores).

Standard

YD/T 1258-2003 GB/T 9771-2008

Specification

Construction

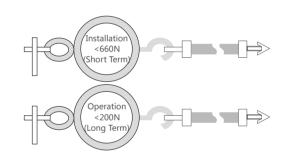
	Data					
Core	4 Cores	8 Cores	12 Cores			
Armid Yam	1580dtex 1580dtex 1580dtex 1580d ×8 ×10 ×10 ×12					
Sheath Color	OM1/OM2 (Orange for Multimode) 0M3 (Aquagreen for Multimode) OS2 (Yellow for Singlemode)					
Sheath Material	PVC/LSZH					

Fiber Core

OM1、OM2、OM3、OM4、OS2

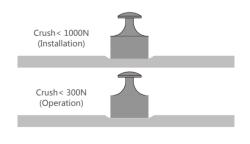
Fiber Color Code: TIA/EIA-598 (Bellcore), If more than 12 fibers or tubes are to be separated, the color sequence is repeated, but with ring marks on.

the colored fibers and tubes.



Tension

Short Term:<=660N Long Term: <=200N (12 cores or less)



Crush:

Short Term: <=1000N Long Term : <=300N (12 cores or less)

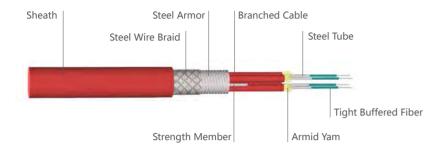
Order Information

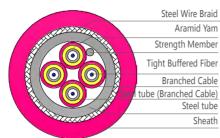
Wooden Reel , 1000m, 2000m per reel.



Flexible Armored Optic Fiber-GJYFJKY

Photo





Description

 $250\mu m$ diameter ultraviolet curing one-off coated fiber tightly covered to make 900 μm diameter fiber.

Branching cable construction: The tight buffered fiber locates in center of steel tube, surrounded by aramid yam, and completed by LSZH sheath.

Flexible Armored Optic Fiber Cable: Four single core fiber cables with strength member support, protected by steel armor and covered by steel wire braid, completed with LSZH sheath.

Great bending performance and high durable.

Suitable for indoor cabling application.

Standard

YD/T 2488-2013 GB/T 9771-2008

Specification

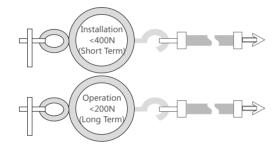
Optical Characteristics

	Single mode OS2	OM1 Multimode	OM2 Multimode	OM3/OM4 Multimode
Wavelength (nm)	1310/1550	850/1300	850/1300	850/1300
Attenuation (dB/km)	≤ 0.35/0.22	≤ 3.5/2.2	≤ 3.5/2.2	≤ 3.5/2.2
Bandwidth (MHz.km)		≥ 200/200	≥ 300/1000	≥ 2000/500

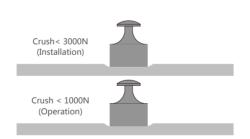
Fiber Core

OM1, OM2, OS2

Fiber Color Code: TIA/EIA-598 (Bellcore), If more than 12 fibers or tubes are to be separated, the color sequence is repeated, but with ring marks on.



Tension:
Short Term:<=400N
Long Term: <=200N (12 cores or less)



Order Information

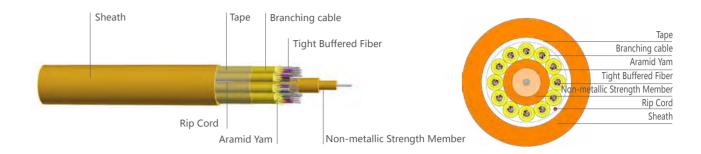
Wooden Reel,

1000m, 2000m per reel.



Indoor Multi-branch Optic Fiber Cable

Photo



Description

250µm diameter ultraviolet curing one-off coated fiber tightly covered to make 900µm diameter fiber. The fibers are placed in a tube. The tubes are surrounded with aramid yam, completed with sheath and taped as bundles. Tubes are stranded around the strength member into a compact and circular cable core. Then, the cable is completed with sheath.

Suitable for indoor cabling application (Max. 144 cores).

Standard

YD/T 1258-2003 GB/T 9771-2008

Specification

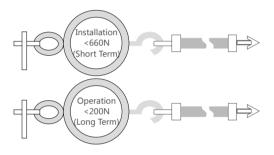
Optical Characteristics

	Single mode OS2	Multimode OM1	Multimode OM2	Multimode OM3/OM4
Wavelength (nm)	1310/1550	850/1300	850/1300	850/1300
Attenuation (dB/km)	≤ 0.35/0.22	≤ 3.5/2.2	≤ 3.5/2.2	≤ 3.5/2.2
Bandwidth (MHz.km)		≥ 200/200	≥ 500/1000	≥ 2000/500

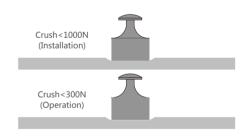
Fiber Core

OM1, OM2, OM3, OM4, OS2

Fiber Color Code: TIA/EIA-598 (Bellcore), If more than 12 fibers or tubes are to be separated, the color sequence is repeated, but with ring marks on.



Tension : Short Term:<=660N Long Term : <=200N (12 cores or less)



Crush : Short Term: <=1000N

Long Term: <=300N (12 cores or less)

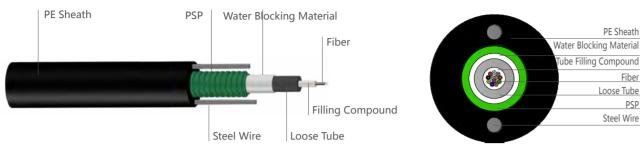
Order Information

Wooden Reel , 1000m, 2000m per reel.



Center Bundle light Armored Optical Fiber Cable - GYXTW

Photo



Description

The fibers are placed in a loose tube of PBT. The tube is filled with a water-resistant filling compound. The tube is wrapped with a layer of PSP longitudinally. Between the PSP and the loose tube water-blocking material is applied to keep the cable compact and watertight. Two parallel steel wires are placed at the two sides of the steel tape. The cable is completed with a PE sheath.

Application for small quantity cores optic fiber communication. (Max. 12 cores)

Installation

	Diameter				Inst	allation	Metho	d	
Туре	mm	Cores	LAN	Duct	Conduit	Cable Trench	Aerial	Direct Burial	Dielectric
GYXTW	8-9	2-12	V	Δ		٧	Δ		
Note: △ : available, ∨ : Optional									

Standard

YD/T 769-2019 GB/T 9771-2008

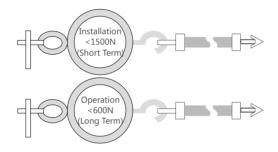
Specification

Item	Data
Cores	2-12 cores
Loose Tube	PBT
Tube Diameter	3.0
Strength Member	2 Phosphating Steel Wires
Steel Wire Diameter(mm)	0.9
Armour	PSP
PSP Thickness*Width(mm)	0.25*17
Outer Sheath	PE

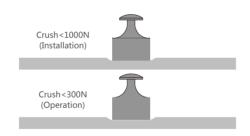
Fiber Core

OM1, OM2, OM3, OS2

Fiber Color Code: TIA/EIA-598 (Bellcore), If more than 12 fibers or tubes are to be separated, the color sequence is repeated, but with ring marks on.



Tension:
Short Term:<=1500N
Long Term: <=600N (12 cores or less)



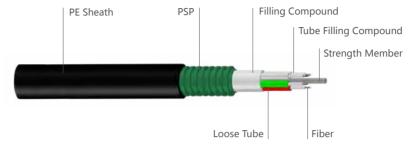
Order Information

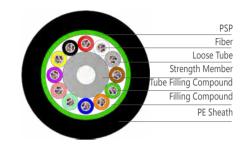
Wooden Reel, 1000m, 2000m per reel.



Outdoor Optic Fiber - GYTS

Photo





Description

Single-mode or multi-mode fibers are positioned in a high modulus loose tube, which is filled with a water-resistant compound. One metal strength member is in the centre of cable, which is covered by PE for some cores cable. Centre strength member is stranded by loose tubes into compact and circular cable core, which is filled water-blocking material. PSP is longitudinally applied over the cable core and PE sheath is extruded. (max. 144 cores)

Installation

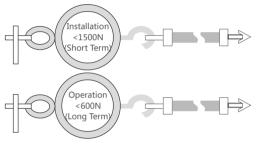
	Diameter				Insta	allation M	ethod		
Туре	mm	Core	LAN	Duct	Conduit	Cable Trench	Aerial	Direct Burial	Dieletric
GYTS	10-22	1-144	٧	Δ	٧	٧	Δ		
	Note: ^ : available, v : Optional								

Standard

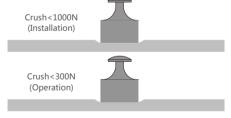
YD/T 901-2009 GB/T 9771-2008

Specification

Item	Data
Strengh Member	Single Phosphating Steel Wire
Armour	PSP
Loose Tube	PBT
Water-blocking Material	Gel/Powder
Outer Sheath	PE



Tension:
Short Term:<=1500N
Long Term: <=600N (12 cores or less)



Crush:
Short Term: <=1000N

Long Term: <=300N (12 cores or less)

Order Information

Wooden Reel



Fiber Core

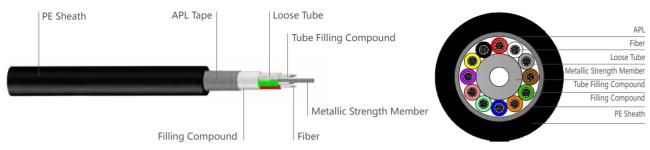
OS2 Single mode

 11 62

Fiber Optic Cable www.aipu-waton.com Generic Cabling System

Outdoor Fiber Cable - GYTA

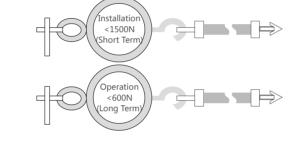
Photo



Description

Single-mode or multi-mode fibers are positioned in a high modulus loose tube, which is filled with a water-resistant compound. One metal strength member is in the centre of cable, which is covered by PE for some cores cable. Centre strength member is stranded by loose tubes into compact and circular cable core, which is filled water-blocking material.

APL is longitudinally applied over the cable core and PE sheath is extruded. To compare with GYTS, tensile strength of GYTA is weaker, but it weights lighter and better water-blocking



Installation

performance . (max. 144 cores)

	Diameter		Installation Method						
Туре	mm	Core	LAN	Duct	Conduit	Cable Trench	Aerial	Direct Burial	Dielectric
GYTS	10-22	1-144	~	Δ	٧	V	Δ		
Note: △ : available, ∨ : Optional									

Crush<1000N (Installation) Crush<300N (Operation)

Standard

YD/T 901-2009 GB/T 9771-2008

Crush: Short Term: <=1000N Long Term: <=300N (12 cores or less)

Tension

Short Term:<=1500N

Long Term: <=600N (12 cores or less)

Specification

Item	Data			
Central Strength Member	Single Phosphating Steel Wire			
Armour	APL			
Loose Tube	PBT			
Outer Sheath	PE			

Order Information

Wooden Reel

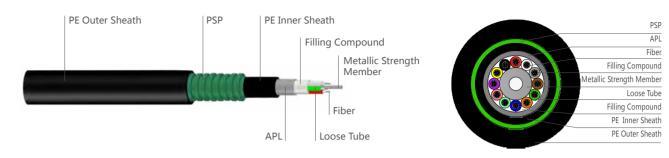


Fiber Core

OS2 Single mode

Outdoor Optic Fiber - GYTA53

Photo



Description

Single-mode or multi-mode fibers are positioned in a high modulus loose tube, which is filled with a water-resistant

compound. One metal strength member is in the centre of cable, which is covered by PE for some cores cable. Centre

strength member is stranded by loose tubes into compact and circular cable core, which is filled water-blocking material.

APL is longitudinally applied over the cable core and PE inner sheath is extruded, then PSP wrapped and PE outer

sheath. GYTA53 has both good tensile strength and water-blocking ability as GYTS and GTYA. (max. 144 cores)

Installation

	Diameter		Installation Method							
Туре	mm	Core	LAN	DUCT	Conduit	Cable Trench	Aerial	Direct Burial	Dielectric	
GYTA53	10-22	1-144	٧		٧	٧		Δ		
Note: △: available, v: Optional										

Standard

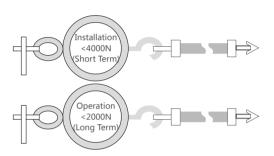
YD/T 901-2009 GB/T 9771-2008

Specification

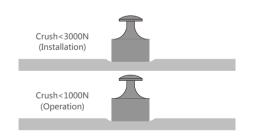
Item	Data				
Central Strength Member	Single Phosphating Steel Wire				
Armour	APL				
Inner Sheath	PE				
Outer Armour	PSP				
Loose Tube	PBT				
Water-blocking Material	Gel/Powder				
Outer Sheath	PE				

Fiber Core

OS2 single mode



Tension: Short Term:<=4000N Long Term: <=2000N



Crush:
Short Term: <=3000N
Long Term: <=1000N

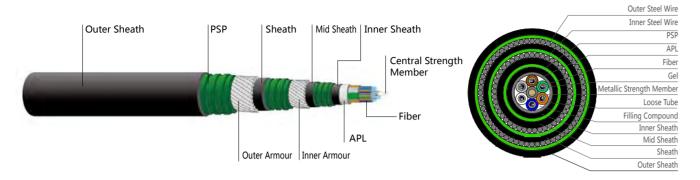
Order Information

Wooden Reel , 1000m, 2000m per reel.



Outdoor Under Water Optic Fiber Cable-GYTS33/GYTA33

Photo



Description

- >For under water installation in sea, river and lake bed (Depth < 15m).
- >Deepwater port network application;
- >Applications are also found in special harsh situations i.e. sewers, water pressurized tunnels and galleries.
- >The highest standards of reliability are ensured in these demanding environments by the use of advanced optical cable design technology and utilization of high quality materials throughout.

Specification

Туре	Cable Diameter (mm)	Weight kg/km
GYTS33-36B1	16.3	494
GYTS333-36B1	23.1	1243
GYTA5333-36B1	19.7	667
GYTA53333-36B1	26.1	1520

Standard

YD/T 901-2009 GB/T 9771-2008

Optical Characteristics

Parameter	Data	
Wavelength(nm)	1310	1550
Attenuation(dB/km)	≤ 0.35	≤ 0.22

Fiber Core

OS2 Single mode

Order Information

Wooden Reel , 1000m, 2000m per reel.

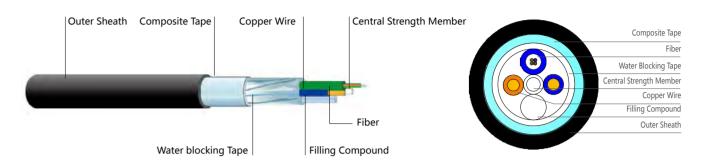


Installtion

Tiros	Installatio	n Method	Tension (N) Crush N/100mm	Crush N/100mm	
Туре	Installation	Operation	Tension (N)	Crusii 14/ 100mm	
APWT-GYTS33-36B1	30D	15D	10000	5000	
APWT-GYTS333-36B1	30D	15D	20000	6000	
APWT-GYTA5333-36B1	30D	15D	10000	6000	
APWT-GYTA53333-36B1	30D	15D	20000	7000	

Optical-Electric Composite Cable -GDTA/S

Photo



Description

- >Optical-electric composite cable (OPLC), also known as power-feeding optical cable, has overcome the shortcomings of traditional electric cables, such as transmitting electric signals only, heavy, not easy to install, costly, etc.
- >It has integrated optic fiber and power cable, so the installation can be completed at once, which saves both engineering and network building

With a wide application range, applicable to all kinds of service types >Superior electrical property, environment-friendly and safe, the optical unit and the electrical unit are compatible with each other well

>It is mainly designed for smart power grid and the distribution system of multi-network combination with fiber optic access, used in the rural access network building, the remote power feeding equipments and the communication in the special areas with difficulty in machine maintenance.

Order Information

Fiber Core

OS2 Single Mode.

Wooden Reel , 1000m, 2000m per reel.



Standard

YD/T 2283 GB/T 9771 GB/T 5023-2008 GB/T 9771-2008

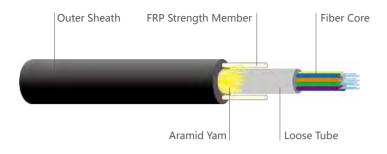
Specification

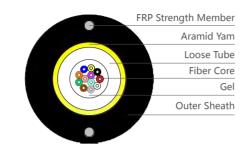
Туре	Installation Method	Tensi	on(N)	Crush (Min.)	(N/100mm)
GDTA/S	Duct/Aerial	1500(1G)	600	1000	300
GDTA/S53	Direct Burial/Duct	3000	1000	3000	1000
GDTC8A/S	Aerial (Self-supporting)	Per re	equest	1000	300

Fiber Optic Cable Generic Cabling System

Outdoor Optic Fiber Cable-GYFXTW

Photo





Description

- >Small diameter , light weight and friendly installation
- >Good mechanical and temperature performance
- >Lightning protection
- > High strength loose tube that is hydrolysis resistant
- >Long-distance communication

Fiber Core

OS2 Single mode



Tension: <=1000N



Crush : <=1000N

Standard

YD/T 769-2010 GB/T 9771-2008

Optical Characteristics

	Data	
Wavelength(nm)	1310	1550
Attenuation(dB/km)	≤ 0.35	≤ 0.22

Order Information

Wooden Reel 1000m, 2000m per reel.

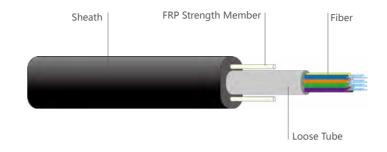


Geometrical Characteristics

Type	Diameter (mm)	Weight kg/km	Bending Radius Min. (mm)	
Туре	Diameter (mm)	vveight kg/kill	Installation	Operation
APWT-GYFXTW-2~12B1	7.5	30	20D	10D
APWT-GYFXTW-14~24B1	8.2	36	20D	10D

Flat Optic Fiber Cable-GJYF2XTCBY

Photo





Description

- > Light weight, high tensile strength and easy installation;
- >Anti-lightning.
- >Long distance communication with high durability.
- >LSZH sheath available.

Geometrical characteristics

Туре	Diametr (mm)	Weight kg/km
GJYFXTCBY- 2~12B1	4.1×8.1	37
GJYFXTCBY- 14~24B1	4.6×9.5	60
GJYF2XTCBY- 2~24B1	4.1×10.5	36

Standard

YD/T 1770-2008 GB/T 9771-2008

Specification

	Data	
Wavelength(nm)	1310	1550
Attenuation(dB/km)	≤ 0.35	≤ 0.22

Fiber Core

OS2 Single mode.

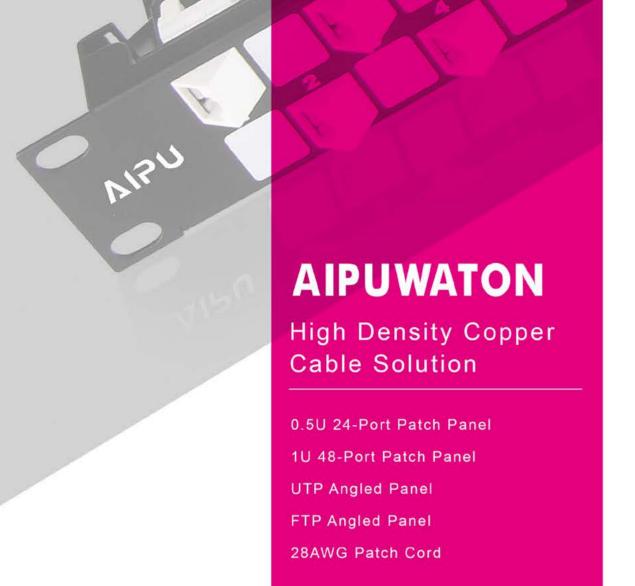
Order Information

Wooden Reel , 1000m, 2000m per reel.



Installation

T. (200	Bending Rad	ius Min.(mm)	Tensile	Crush	
Туре	Installation	Operation	N	N/100mm	
APWT-GJYFXTCBY-2~12B1	20D	10D	1000	1000	
APWT-GJYFXTCBY-14~24B1	20D	10D	1000	1000	
APWT-GJYF2XTCBY-2~24B1	20D	10D	1000	1000	

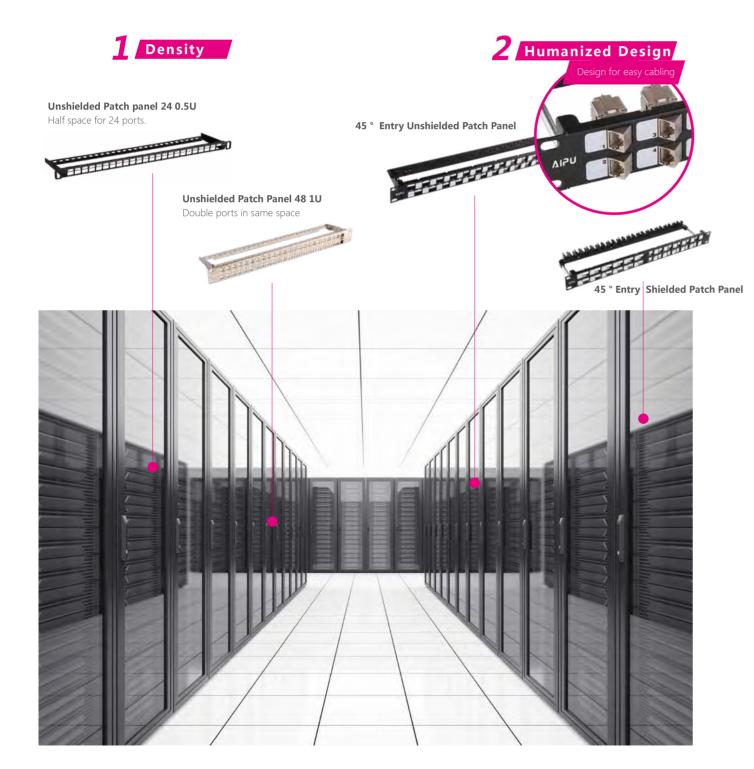




AIPU High Density Copper Solution

Today's data center house a large number of diverse bandwidth-intensive devices, including bladed servers, clustered storage system, virtualization appliances, and backup devices-all interconnected by networking equipment. These devices require physical cabling with an increasing demand for higher performance and flexibility, all of which require a reliable, scalable and manageable cabling infrastructure.

AIPU High Density Copper solutions offer advanced performance and reliability in a footprint designed for space-constrained installations to meet your present day and future data center needs.



24-Port 0.5U Unshielded Rack-Mount Patch Panel

Photo





Description

- >19" rack mount, Unique 0.5U Height.
- >Frees up valuable rack space by condensing 24 RJ45 ports into a Half-U panel.
- >Ideal for standard and pre-terminated installations.
- > Ports clearly numbered both on front and back.

Standard

TIA 568 C

Specification

Parameter	Data
Physical	SPCC with black painted.
Connection	1-24 Pcs (not included)
Height	0.5U
Installation	Compatible with all 19" racks and cabinets
Cable Management	Supplied with rear cable management bar

Installation Guide

Rack mountable on a 19 rack

Package includes

Unshielded patch panel 24-port 0.5U, mounting screws and installation guide.

Order Information

Model	Description	Specification	Qty per Pack
APWT-24-HK	Unshielded Patch panel 24 0.5U	Keystone Jack not included	1

High Density Copper Cable Solution Generic Cabling System

m www.aipu-waton.com

48-Port 1U Unshielded Rack-Mount Patch Panel

Photo





Description

- >19" rack mount in 1U height.
- >Ideal for standard and pre-terminated installations.
- >Frees up valuable rack real estate by condensing a typical 2U 48 port patch panel into 1U of space.

Standard

TIA 568 C

Specification

Parameter	Data
Physical	SPCC with black painted.
Connection	1-48 pcs (Keystone Jack not included)
Height	10
Installation	Compatible with all 19" racks and cabinets
Cable Management	Supplied with rear cable management bar

Installation Guide

Rack mountable on a 19 rack

Package includes

Unshielded patch panel 48-port 1U, mounting screws and installation guide.

Order Information

Model	Part	Specification	Qty per Pack
APWT-48-HK	48-Port 1U Unshielded Rack-Mount Patch Panel	Keystone Jack not included	1

45 ° Entry 24-Port 1U Unshielded Rack-Mount Patch Panel

Photo





Description

- > 19" rack mount in 1U height.
- >Frees up valuable rack space by condensing 45 ° entry design.
- >Ideal for standard and pre-terminated installations.

Standard

TIA 568 C

Specification

Parameter	Data
Connection	Cat.6 and Cat.6A
Physical	Cold rolled steel construction
RJ45 Port	1U24 Port , authorized Unshielded module required.
Installation	Compatible with all 19" racks and cabinets
Cable Management	Supplied with 1*24 Rear Metal Cable Manager

Installation Guide

Mounts in standard 19" Racks or Cabinet.

Package includes

 $45\ ^{\circ}$ Entry 24-Port 1U Unshielded Rack-Mount Patch Panel and mounting kit.

Order Information

order antoniudion				
Model	Part	Specification	Qty per Pack	
APWT-24U-AK	45 ° Entry 24-Port 1U Unshielded Rack- Mount Patch Panel	Keystone Jack not included	1	
APWT-24U-6M	CAT.6 UTP Keystone Jack	180° Punch down	1	
APWT-24U-6AM	CA6.6A UTP Keystone Jack	180° Punch down	1	

High Density Copper Cable Solution Generic Cabling System

45 ° Entry 24-Port 1U Shielded Rack-Mount Patch Panel

Photo





Description

- >19" rack mount in 1U height.
- >Frees up valuable rack space by condensing 45 ° entry design.
- >Ideal for standard and pre-terminated installations.

Standard

TIA 568 C

Specification

Parameter	Data
Connection	CAT.6 and CAT.6A
Physical	Cold rolled steel construction
RJ45 Port	1U24 Port , authorized shield module required.
Installation	Compatible with all 19" racks and cabinets
Cable Management	Supplied with 1*24 Rear Metal Cable Manager

Installation Guide

Rack mountable on a 19 rack

Package includes

45° Entry 24-Port 1U Shield Rack-Mount Patch Panel and mounting kit.

Order Information

Model	Part	Specification	Qty per Pack
APWT-24S-AK	45 ° Entry 24-Port 1U Shielded Rack- Mount Patch Panel	Keystone Jack not included	1
APWT-24S-6K	CAT.6 STP Module	180° Punch down	1
APWT-24S-6AK	CAT.6A STP Module	180° Punch down	1

28AWG CAT.6 2M Patch Cord

Photo

www.aipu-waton.com



Description

CAT.6 2M Patch Cord

28AWG CAT.6 2M Patch Cord

- > Enable higher density layouts, and improve ease of cable management.
- > Best for overcrowded pathways in existing Telecom Rooms & Data Centers .
- > Enabling smaller pathways in new Telecom Rooms & Data Centers.
- > Meet cat.6 system standard: TIA/EIA568C.
- > The gold-plated contacts provide reliable performance.
- > 568B order, integral injected Structure of 8P8C connector guarantee connecting between cable and RJ45 plug.
- > Length: 1, 2, 3, 5, 10m (optional).

Standard

TIA 568C

Specification

Parameter	Data
Connector	RJ45
Performance Category	Cat 6 component compliant
Cable	28AWG
Sheath	PVC
Cable Impedance	100±15Ω
Cable Diameter	3.9±0.2mm
Color	Gray (default)
Length	1/2/3 Length in meter

Installation

Bend radius should not be smaller than 2 times of patch cord diameter

Package

One patch cord in color PP bag, multiple patch cords in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-6-028-X-XX	28AWG Unshielded Patch Cord	Yellow, green, grey.	1





Modules

Cat.3 RJ11 Keystone Jack

Photo



Description

- >Cat.3 system link, RJ11.
- >Widely used in horizontal working area cabling indoor, LAN, voice system.
- >Housing: impact resistant PC, IDC pin: nickel plated phosphor bronze, RJ11 port: 6P4C (fit for 2 cores and 4 cores voice system), connecting fasten, fit for 2 cores & 4 cores voice system, fasten punching, good durability and stability.

Standard

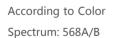
YD/T 926.3-2009

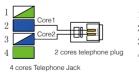
TIA 568C

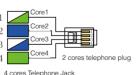
Specification

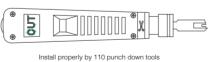
Parameter	Data
Keystone Jack Material	PC
IDC Pin	Nickel Plated Phosphor Bronze
Cable Conductor for IDC	Cable Conductor for IDC Solid/Strand 0.4-0.6mm
IDC Insertion Life	>250 cycles
RJ11 Plug Introduction	6P4C
RJ11 Plug Insertion Life	>750 cycles

Installation









2 cores telephone wiring method 4 cores telephone wiring method

Package

Single jack in color PP bag, multiple jacks in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-3-03D	RJ11 Telephone Jacks	4 pins punching RJ11 Jack	1

Cat.5e Unshielded RJ45 Keystone Jack

Photo



Description

- >Cat.5e system link, Unshielded RJ45 module.
- >Bandwidth: 100MHz, typical application 100Mbps.
- >Widely used in horizontal working area cabling indoor, LAN, Cat.5e Unshielded system.
- >Housing: impact resistant PC, IDC pin: nickel plated phosphor bronze, RJ45 port: 8P8C (fit for 4P4C/4P2C voice system and 8P8C data system).
- > Fasten punching, good durability and stability, fit for AIPU WATON Cat.5e data cable, patch panel and patch cord, meet and much higher than Cat.5e standard, provide plentiful redundancy for system link.

Standard

YD/T 926.3-2009

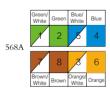
TIA 568C

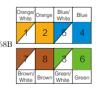
Specification

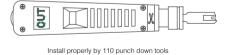
Parameter	Data
Jack Type	180° Punch-down
Color	IDC Pin Plastic: Blue, Others: White
Housing	PC
IDC Pin	Nickel Plated Phosphor Bronze
Cable Conductor for IDC	Solid/Strand 0.4-0.6mm
IDC Insertion Life	>250 cycles
RJ45 Plug Introduction	8P8C
RJ45 Pin	Gold Plated Phospor Bronze (Gold 50µm)
RJ45 Plug Insertion Life	>750 cycles
Insertion Loss	≤ 0.4dB@100MHz
Bandwidth	100MHz

Installation

According to Color Spectrum: 568A/B







Package

Single jack in color PP bag, multiple jacks in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-5E-03-180	Cat.5e Unshielded RJ45 Jack 180	RJ45 Module 180° Punching	1

 9 80

Modules

Cat.5e Shielded RJ45 Keystone Jack

Photo



Description

- >Cat.5e shielded system link, shielded RJ45 module.
- >Bandwidth: 100MHz, typical application 100Mbps.
- >Widely used in horizontal working area cabling indoor, LAN, Cat.5e shielded system.
- >Housing: impact resistant PC, Shield: Brass, IDC pin: nickel plated phosphor bronze, RJ45 port: 8P8C (fit for 4P4C/4P2C voice system and 8P8C data system).
- >Fasten punching, good durability and stability, fit for AIPU WATON Cat.5e shield data cable, patch panel and patch cord, meet and much higher than Cat.5e standard, provide plentiful redundancy for system link.

Standard

YD/T 926.3-2009

TIA 568C

Specification

Parameter	Data
Color	Brass
Housing	PC
Shield	Brass Plated
Installation	110 Type
IDC Pin	Nickel Plated Phosphor Bronze
Cable Conductor for IDC	Solid/Strand 0.4-0.6mm
IDC Insertion Life	>250 cycles
RJ45 Plug Introduction	8P8C
RJ45 Pin	Gold Plated Phosphor Bronze (gold: 50μm)
RJ45 Plug Insertion Life	> 750 cycles
Insertion Loss	≤ 0.4dB@100MHz
Bandwidth	100MHz

Installation

According to Color Spectrum: 568A/B







Install properly by 110 punch down tools

Package

Single jack in color PP bag , multiple jacks in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-5E-03P	Cat.5e Shielded RJ45 Keystone	RJ45 Jack 180° Punch down	1

Fast-Link Cat.6 Unshielded RJ45 Keystone Jack

Photo



Description

- > Fast-Link Cat.6 Unshielded system link, Unshielded RJ45 module.
- > Bandwidth: 250MHz, typical application 1000Mbps.
- > Widely used in horizontal working area cabling indoor, LAN, Cat.6 Unshielded system.
- > Especially designed for high-end project, elegant performance, compact structure and outstanding electrical performance, provide plentiful redundancy for system link.
- > Housing: impact resistant PC, IDC pin: nickel plated phosphor bronze, RJ45 port: 8P8C (fit for 4P4C/4P2C voice system and 8P8C data system)
- > Superior transmission performance and plug compatibility.

Standard

YD/T 926.3-2009

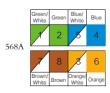
TIA 568C

Specification

Parameter	Data
Color	IDC Plastic: White, Other Plastic: Aqua
Housing	PC
Installation	110 Type/90° Punch down
IDC Pin	Nickel Plated Phosphor Bronze
Cable Conductor for IDC	Solid/Strand 0.4-0.6mm
IDC Insertion Life	>300 cycles
RJ45 Plug Introduction	8P8C
RJ45 Pin	Gold Plated Phosphor Bronze (gold: 50μm)
RJ45 Plug Insertion Life	>1000 cycles
Insertion Loss	≤ 0.4dB@250MHz
Bandwidth	250MHz

Installation

According to Color Spectrum: 568A/B







Install properly by 110 punch down tools

Package

Single jack in color PP bag , multiple jacks in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-6-03S	Fast-Link Cat.6 Unshielded RJ45 Jack	90° Punch down	1

Generic Cabling System www.aipu-waton.com

Cat.6 Unshielded RJ45 Keystone Jack

Photo





Description

- >Cat.6 system link, Unshielded RJ45 module
- >Bandwidth: 250MHz, typical application 1000Mbps
- > Widely used in horizontal working area cabling indoor, LAN, Cat.6 Unshielded system
- >Widely used in horizontal working area cabling indoor, LAN, Cat.6 Unshielded system
- > Fasten punching, good durability and stability, fit for AIPU WATON Cat.6 data cable, patch panel and patch cord, meet and much higher than Cat.6 standard, provide plentiful redundancy for system link

Standard

YD/T 926.3-2009

TIA 568C

Specification

Parameter	Data
Housing color	Blue , Green , Red , Yellow , White , Grey (Default), Black
Color	IDC plastic: blue, Dust Cover: Grey
Housing	PC
Installation	110 type/180° Punch down
IDC Pin	Nickel Plated Phosphor Bronze
Cable Conductor for IDC	Solid/Strand 0.4-0.6mm
IDC Insertion Life	>300 cycles
RJ45 Plug Introduction	8P8C
RJ45 Pin	Gold Plated Phosphor Bronze (gold: 50µm)
RJ45 Plug Insertion Life	>1000 cycles
Insertion Loss	≤ 0.4dB@250MHz
Bandwidth	250MHz

Installation

According to Color

Spectrum: 568A/B





Install properly by 110 punch down tools

Package

Single jack in color PP bag, multiple jacks in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-6-03-180-XX	Cat.6 Unshielded RJ45 Keystone	180° Punch down	1

www.aipu-waton.com Generic Cabling System

Cat.6 Shielded RJ45 Tool-Free Keystone Jack

Photo



Description

- >Cat.6 shield system link, shield RJ45 module.
- >Bandwidth: 250MHz, typical application 1000Mbps
- >Widely used in horizontal working area cabling indoor, LAN, Cat.6 shield system
- > Shielded: integrated zinc alloy casting shell, IDC pin: nickel plated phosphor bronze, RJ45 port: 8P8C (fit for 4P4C/4P2C voice system and 8P8C data system); complete & reliable shield/ground design
- >Fasten punching, good durability and stability, fit for AIPU WATON Cat.6 data cable, patch panel and patch cord, meet and much higher than Cat.6 standard, provide plentiful redundancy for system link

Standard

YD/T 926.3-2009

TIA 568C

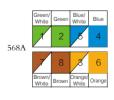
Specification

Parameter	Data
Color	Silver-grey
Shield	Zinc Alloy Casting
Installation	Tool-Free
Housing	PC
IDC Pin	Nickel Plated Phosphor Bronze
Cable Conductor for IDC	Solid/Strand 0.4-0.6mm
IDC Insertion Life	>250 cycles
RJ45 Plug Introduction	8P8C
RJ45 Pin	Gold Plated Phosphor Bronze (gold: 50µm)
RJ45 Plug Insertion Life	>750 cycles
Insertion Loss	≤ 0.4dB@250MHz
Bandwidth	250MHz

Instruction

According to Color

Spectrum: 568A/B





Package

Single jack in color PP bag, multiple jacks in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-6-03PS	Fast-Link Cat.6 Shielded Tool-free RJ45 Keystone Jack	integrated zinc alloy casting, Tool-free RJ45 Jack	1

Modules

Cat.6A Unshielded RJ45 Keystone Jack

Photo



Description

- >Cat.6a Unshielded system link, shield RJ45 module.
- >Dust cover featured.
- >Bandwidth: 500MHz, typical application 10Gbps.
- >Widely used in horizontal working area cabling indoor, LAN, Cat.6a shield system.
- >Housing: impact resistant PC, IDC pin: nickel plated phosphor bronze, RJ45 port: 8P8C (fit for 4P4C/4P2C voice system and 8P8C data system).

Standard

YD/T 926.3-2009 TIA 568C

Specification

Parameter	Data
Color	White
Dust cover	featured
Housing	PC
Installation	110 Type , 90° Punch down
IDC Pin	Nickel Plated Phosphor Bronze
Cable Conductor for IDC	Solid/Strand 0.4-0.6mm
IDC Insertion Life	>300 cycles
RJ45 Plug Introduction	8P8C
RJ45 Pin	Gold Plated Phosphor Bronze (gold: 50μm)
RJ45 Plug Insertion Life	>1000 cycles
Insertion Loss	≤ 0.4dB@500MHz
Bandwidth	500MHz

Installation

According to Color Spectrum: 568A/B





Install properly by 110 punch down tools

Package

Single jack in color PP bag , multiple jacks in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-6A-03	Cat.6A Unshielded RJ45 Keystone Jack	90° Punch down Keystone Jack	1

Fast-Link Cat.6A Shielded RJ45 Tool-Free Keystone Jack

Photo



Description

- >Cat.6a shield system link, shield RJ45 module.
- >Bandwidth: 500MHz, typical application 10Gbps.
- >Widely used in horizontal working area cabling indoor, LAN, Cat.6a shield system.
- >Housing: impact resistant PC, IDC pin: nickel plated phosphor bronze, RJ45 port: 8P8C (fit for 4P4C/4P2C voice system and 8P8C data system).

Standard

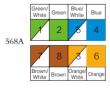
YD/T 926.3-2009 TIA 568C

Specification

Parameter	Data
Keystone Jack Color	Silver-grey
Shield	Zinc Alloy Casting
Installation	Tool Free
IDC Pin	Nickel Plated Phosphor Bronze
Cable Conductor for IDC	Solid/Strand 0.4-0.6mm
IDC Insertion Life	>250 cycles
RJ45 Plug Introduction	8P8C
RJ45 Pin	Gold Plated Phosphor Bronze (gold: 50μm)
RJ45 Plug Insertion Life	>750 cycles
Insertion Loss	≤ 0.4dB@500MHz
Bandwidth	500MHz

Installation

According to Color Spectrum: 568A/B





Package

Single jack in color PP bag , multiple jacks in color carton box.

Order Information

П	Model	Part	Specification	Qty per Pack
	APWT-6A-03P	Cat.6A Shielded RJ45 Tool-Free Keystone Jack	Zinc Alloy Casting Tool-Free RJ45 Keystone Jack	1

 35 $^{\circ}$

www.aipu-waton.com

Www.aipu-waton.com Generic Cabling System

CATV Keystone Jack

Photo



Description

>For CATV in working area, work with 86 type faceplate.

Standard

GB/T11318.12

Specification

Parameter	Data
Work Voltage	125V
Withstand Voltage	75V
Attenuation	VHF ≤ 0.05dB UHF ≤ 1.0dB
Inner Flatness	±1.5dB (Each channel <0.5dB)
Reflection Loss	VHF ≥ 16dB UHF ≥ 10dB
Insert & Pull out	Insert ≤ 20N , Pull out ≥ 20N
Temperature	-40 ~ +70°C
Humidity	85% (Temp 85°C ±3°C)

Installation

Screwdriver applicable

Package

Single jack in color PP bag , multiple jacks in color carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-M-TV-1	CATV Keystone Jack	single port	1

Fiber Optic Keystone Jack

Photo







Description

- > Feed-thru coupler for fiber applications.
- >Simplex/Duplex , ST , SC or LC.
- > Great solution for bringing fiber to the home or office
- >Snaps easily into Fiber Savvy wall plates, blank patch panels or mounting box

Multimedia Keystone Jack

Photo



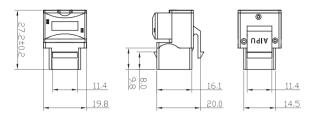
Description

- > provide installers with a highly versatile solution for creating unique outlet systems for the home, classroom, or office environment.
- >Fully modular design allows for easy snap-in installation in most types of patch panels and multimedia wallplates with standard keystone inserts.
- >User-friendly, feed-thru modules provide quick and easy plug-n-play installation, and save a great deal of time and labor when compared to keystone jacks that require termination or soldering.

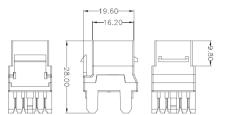
Modules

Generic Cabling System www.aipu-waton.com

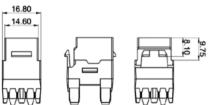
Keystone Jack Dimension



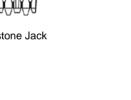
Cat.3 RJ11 Keystone Jack

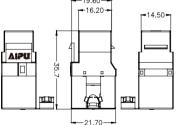


Cat.5e Unshielded RJ45 Keystone Jack

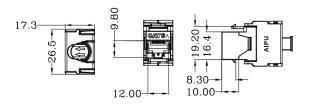


Cat.6 180°Unshielded Keystone Jack

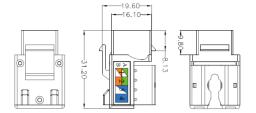




Cat.5e 180°Shielded Keystone Jack



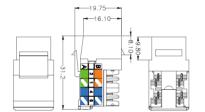
Cat.6A Shielded RJ45 Keystone Jack



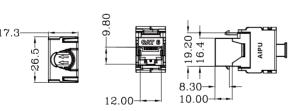
Cat5e 90°Keystone Jack



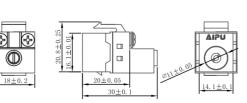
Cat5e Tool-Free Keystone Jack



Fast-Link Unshielded Keystone Jack



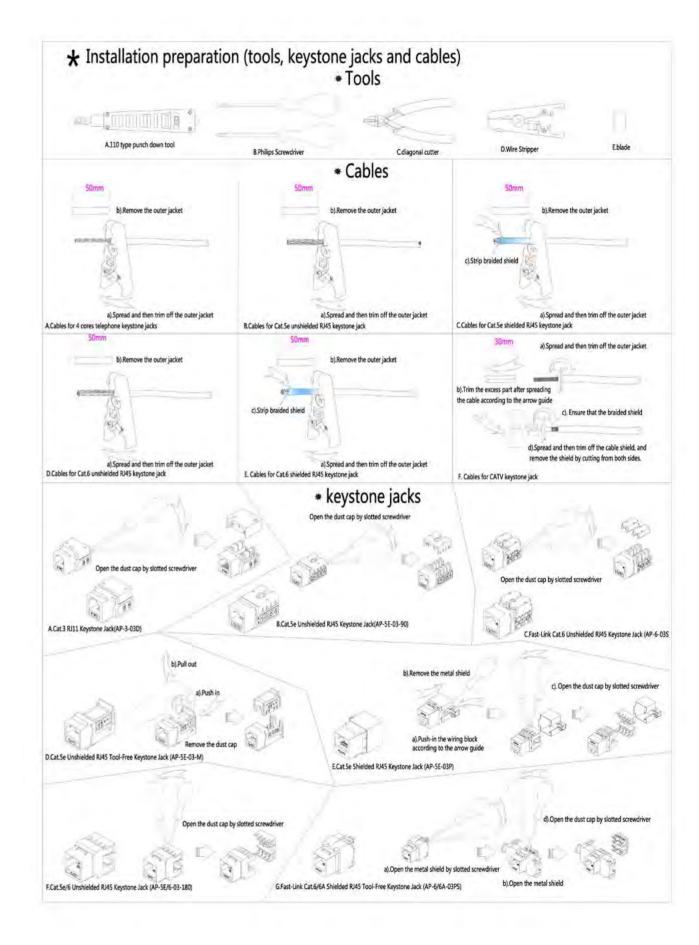
Cat.6 Shielded Keystone Jack



CATV Keystone Jack

Www.aipu-waton.com Generic Cabling System

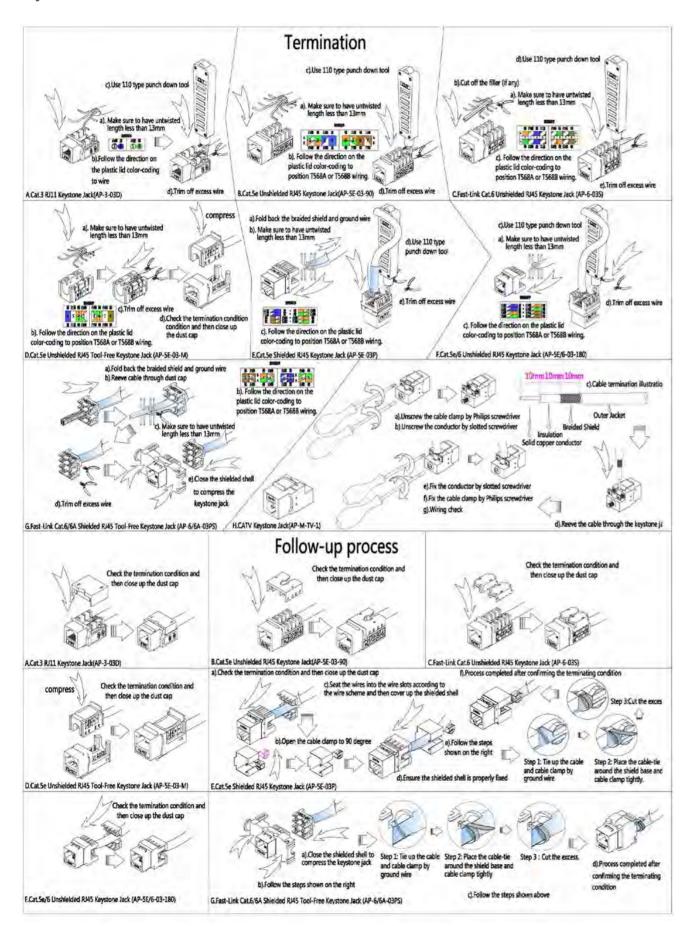
Keystone Jack Installation Guide



m

Modules Generic Cabling System

Keystone Jack Installation Guide



Keystone-Faceplate Match Table

www.aipu-waton.com

Туре	Matte Single Port Faceplate AP-M-04-1A"	Matte 2-ports Faceplate AP-M-04-2A"	Square 4-ports Faceplate 86 AP-M-04-4"	Fast-Link Single port Faceplate 86 AP-M-04-1S"	Fast-Link 2-ports Faceplate 86 AP-M-04-2S"	Spring Type Floor Socket AP-D-05T"	Flip-up 6-ports floor socket AP-D-06FS"
Cat.3 RJ11 Keystone Jack AP-3-03D	0	0	0	0	-	0	0
CATV Keystone Jack AP-M-TV-1	0	0	0	0	0	0	0
Cat.5e Unshielded 90° RJ45 Keystone Jack AP-5E-03-90	0	0	0	0	-	0	0
Cat.5e Unshielded 180° RJ45 Keystone Jack AP-5E-03-180	0	0	0	0	0	0	0
Cat.5e Unshielded Tool-Free RJ45 Keystone Jack AP-5E-03-M	0	0	0	0	0	0	0
Cat.5e Shield RJ45 Keystone Jack AP-5E-03P	0	0	0	0	0	-	0
Cat.6 Unshielded RJ45 Keystone Jack AP-6-03-180	0	0	0	0	0	0	0
Fast-Link Cat.6 Unshielded RJ45 Keystone Jack AP-6-03S	0	0	0	0	0	-	0
Fast-Link Cat.6 Shield Tool-Free RJ45 Keystone Jack AP-6-03PS	0	0	0	0	0	-	0
Cat.6A Unshielded RJ45 Keystone Jack AP-6A-03	0	0	-	0	0	-	-
Fast-Link Cat.6A Shield Tool- Free RJ45 Keystone Jack AP-6A-03P	0	0	0	0	0	-	0
Cat.6 UTP Keystone Jack (45° Entry Patch Panel Exclusive) AP-24U-6M	-	-	-	-	-	-	-
Cat.6A UTP Keystone Jack (45° Entry Patch Panel Exclusive) AP-24U-6M	-	-	-	-	-	-	-
Cat.6 STP Keystone Jack (45° Entry Patch Panel Exclusive) AP-24S-6K	-	-	-	-	-	-	-
Cat.6A STP Keystone Jack (45° Entry Patch Panel Exclusive) AP-24S-6AK	-	-	-	-	-	-	-

Notes: 1. AP-3-03D keystone jack is suggested to install in one AP-M-04-2S by only one piece.

2. AP-5E-03-90 keystone jack is suggested to install in $\,$ AP-M-04-2S by only one piece.

O Suggested - Not suggested





86mm x 86mm Shuttered Faceplate Shuttered Faceplates

Photo



Color: White

Description

- >Low profile design: Blends with most environments.
- >Utilizes a two piece construction that allows a cover to snap over the base to hide mounting screws for added security.
- > Faceplate size is standard 86 type, suitable for multi-type modules.
- >Double gang frame, elegant appearance and convenient installation.
- >Equipped with a spring-loaded shutter to protect connector from dust.
- > Easy for lable identification.
- >UL 94V-0 certificated.

Specificaiton

Parameter	Data
Faceplate Dimension	86*86mm
Number Of Ports	Single or Dual
Material	ABS
Label	Organic Glass Label
Dust Cover	ABS
Installation	2 mounting screws
Maintenance	Dismounted the base

Installation

Mounting screws.

Package

Single faceplate in color PP bag, multiple pieces in color carton box.

Order Information

Model	Part	Color	Qty per Pack
APWT-M-04-1A	Single port 86 faceplate	White	1
APWT-M-04-2A	Dual ports 86 faceplate	White	1

Fast-Link 86mm x 86mm Shuttered Faceplate

Photo





Color: White

Description

- >Low profile design: Blends with most environments.
- >Utilizes a two piece construction that allows a cover to snap over the base to hide mounting screws for added security.
- > Equipped with a spring-loaded shutter to protect connector from dust.
- > Easy for lable identification.

Specification

Parameter	Data
Faceplate Dimension	86*86mm
Number Of Ports	Single or Dual
Material	PC
Color	White
Label	Organic glass label
Dust Cover	PC
Installation	2 mounting screws
Maintenance	Disassembled from front side

Installation

Mounting screws.

Package

Single faceplate in color PP bag, multiple pieces in color carton box.

Order Information

Model	Part	Color	Qty per Pack
APWT-M-04-1S	Fast-link single port 86 faceplate	White	1
APWT-M-04-2S	Fast-link dual ports 86 faceplate	White	1

86mm x 86mm Quad-Ports Shuttered Faceplate

Photo



Color: White

Description

- >Low profile design: Blends with most environments.
- >Utilizes a two piece construction that allows a cover to snap over the base to hide mounting screws for added security.
- > Easy for lable identification.
- > Equipped with a spring-loaded shutter to protect connector from dust.

Specification

Parameter	Data
Faceplate Dimension	86*86mm
Number Of Ports	4
Material	ABS
Color	White
Label	Red/Blue
Dust Cover	ABS
Installation	2 mounting screws
Maintenance	Dismounted the base

Installation

Mounting screws.

Package

Single faceplate in color PP bag , multiple pieces in color carton box.

Order Information

Model	Part	Color	Qty per Pack
APWT-M-04-4	86mm x 86mm Quad-Ports Shuttered Faceplate	White	1

Spring-type Floor Socket

Photo





Description

- > Made by high strength copper-alloy.
- > 45 degree angled design reduces dust accumulation and moisture corrosion.
- > IP44 rating
- > The unique pop-up feature allows users to access connectors only when needed. The cover snaps closed when not in use, reducing the above-floor height.
- > Soft opening for enhanced comfort and safety.
- > Port customization.

Specification

Parameter	Data
Faceplate Dimension	(W)120*(L)120mm
Junction Box Dimension	(W)100*(L)100*(H)60mm
Entry Hole	Ф22mm+Ф27mm
Screw Size	Ф2mm*2
Open Angle	55°
Package Includes	Includes junction box and all necessary hardware and fasteners required for installation, ensuring easy setup

Installation

> Available for 1-3 Ports.

Order Information

Model	Part	Specification	Qty per Pack
APWT-D-05TS	Spring-type Floor Socket	IP44, Junction box included	1

Spring-Type Floor Socket with Duplex Receptacles

Photo





Description

Brings a duplex receptacle to an away-from-the-wall location for easy access to power

- > Easily snaps closed when not in use, reducing tripping hazards and protecting the outlets from dirt and moisture
- > Soft opening for enhanced comfort and safety.

Specification

Parameter	Data
Faceplate Dimension	(W)120*(L)120mm
Junction Box Dimension	(W)100*(L)100*(H)60mm
Entry Hole	Ф22mm+Ф27mm
Screw size	Φ2mm*2
Open Angle	55°
Package Includes	Includes Junction box and all necessary hardware and fasteners required for installation, ensuring easy setup

Installation

>To avoid interference, please do not connect the power cable and signal wire in the same junction box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-P-05TS	Spring-Type Floor Socket with Duplex Receptacles	120*120,IP44, junction box included, 220V , 10A	1

Floor socket with Hinged Lid

Photo





Description

- > Frame and lid are both made by high strength copper alloy.
- > Specific designed for shield cabling system.
- > Easily lid closed when not in use, reducing tripping hazards and protecting the outlets from dirt and moisture
- > Module capacity: MAX. 6 modules
- > Easy for installation and maintenance.

Specification

Parameter	Data
Faceplate Dimension	(W)125*(L)125mm
Junction Box Dimension	(W)100*(L)100*(H)60mm
Entry Hole	Ф22mm+Ф27mm
Screw Size	Ф2mm*2mm
Open Angle	110°
Package Includes	Includes Junction box and all necessary hardware and fasteners required for installation, ensuring easy setup

Installation

> Ensure good grounding.

Order Information

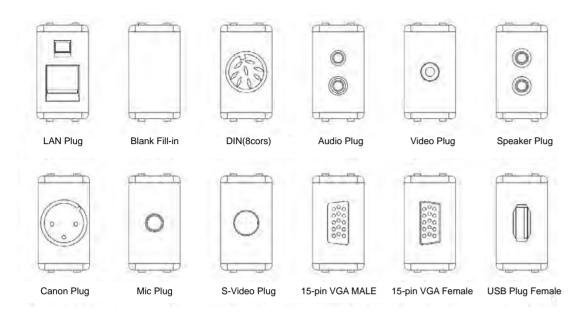
Model Part		Specification	Qty per Pack
APWT-D-06FS	Floor socket with Hinged Lid	125*125. Max 6 modules	1

Faceplate
Generic Cabling System

www.aipu-waton.com

Faceplate www.aipu-waton.com Generic Cabling System

Optional Keystone Jacks



Order Information

Model	Part	Specification	Qty Per Pack
APWT-D-05TD	Galvanized Junction Box	60*100*100 , 22/27mm entry hole	1
APWT-DG10	LAN Plug	1	1
APWT-DG11	Audio Plug	Female Connector , 1	1
APWT-DG12	Video Plug	Female Connector , 1	1
APWT-DG13	Speaker Plug	Female Connector , 1	1
APWT-DG14	USB	Female Connector , 1	1
APWT-DG15	Canon Plug	Male Connector , 1	1
APWT-DG16	Mic Plug	Female Connector , 1	1
APWT-DG17	S-Video Plug	Female Connector , 1	1
APWT-DG18	15-pin VGA	Male Connector , 1	1
APWT-DG19	15-pin VGA	Female Connector , 1	1
APWT-DG20	HDMI	Female Connector , 1	1
APWT-DBK	Blank Fill-in	Blank Fill-in, 1	1

86 Type Fiber Optic Faceplate

Photo





Color: White

Description

- > Standard 86 Type Faceplate
- > Suitable for SC, ST coupler installation.
- > Utilizes a two piece construction that allows a cover to snap over the base to hide mounting screws for added security.
- > Easy for lable identification.

Standard

YD/T 926.3-2009 TIA 568C

Specification

Parameter	Data
Faceplate Dimension	86*86mm
Number Of Ports	Single or Dual ports
Coupler	SC Single Core (LC Dual Cores)、ST Single Core (FC Single Core)
Housing	ABS
Color	White
Label	Organic Glass Label
Installation	Mounting Screw*2

Installation

Mounting screws.

Package

Single faceplate in color PP bag, multiple pieces in color carton. .box.

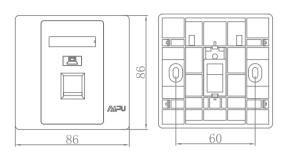
Order Information

Model	Part	Specification	Qty per Pack
APWT-GM-04-SC-1C	SC Single Port Fiber Optic Faceplate	SC Single Port , 86 Standard	1
APWT-GM-04-ST-2T	ST Dual Ports Fiber Optic Faceplate	ST Dual Ports , 86 Standard	1

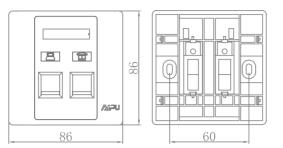
Faceplate Generic Cabling System

Faceplate Dimension

86 Type Matte Faceplate

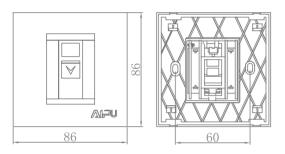


Single Port

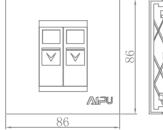


Dual Ports

Fast-Link 86 Type Faceplate



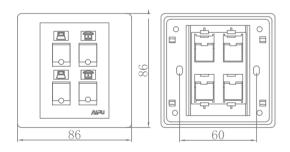
Fast-Link Single Port



60

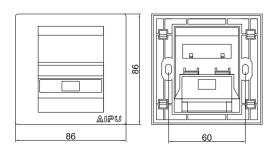
Fast-Link Dual Ports

86 Type Faceplate

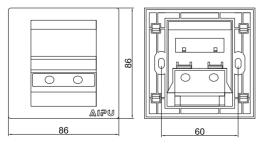


4-Ports

86 Type Fiber Optic Faceplate



SC Single Port

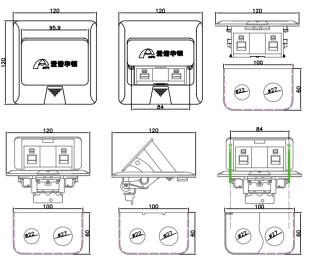


ST Dual Port

Floor Socket Dimension

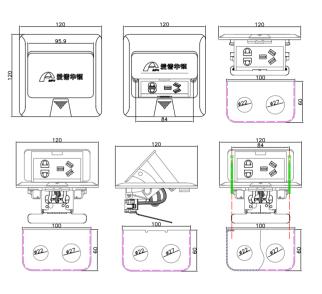


Floor Socket



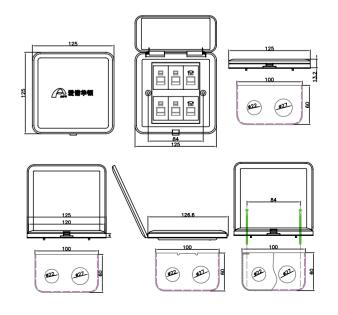


Spring-Type Floor Socket with Duplex Receptacles



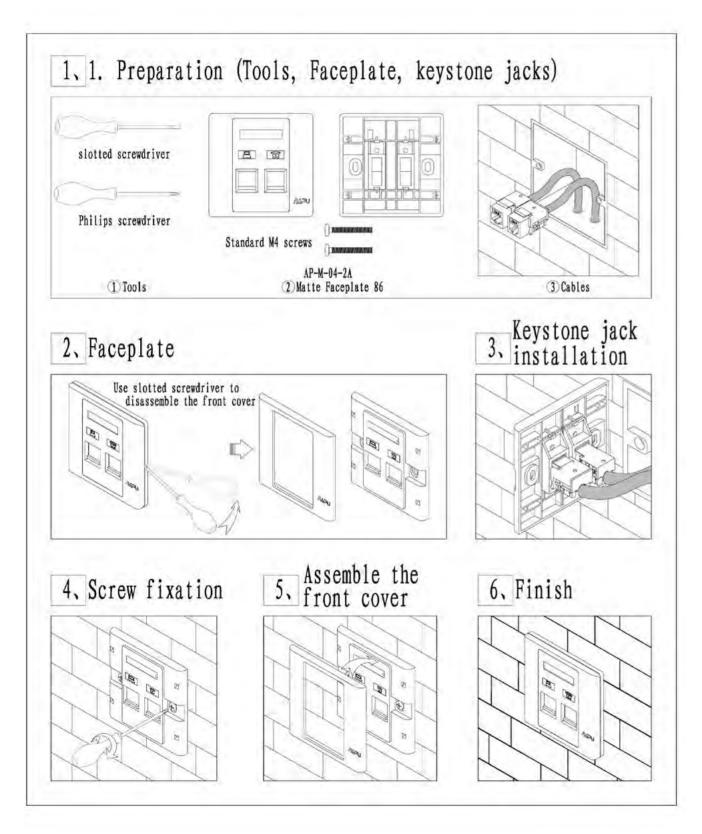


Floor socket with Hinged Lid



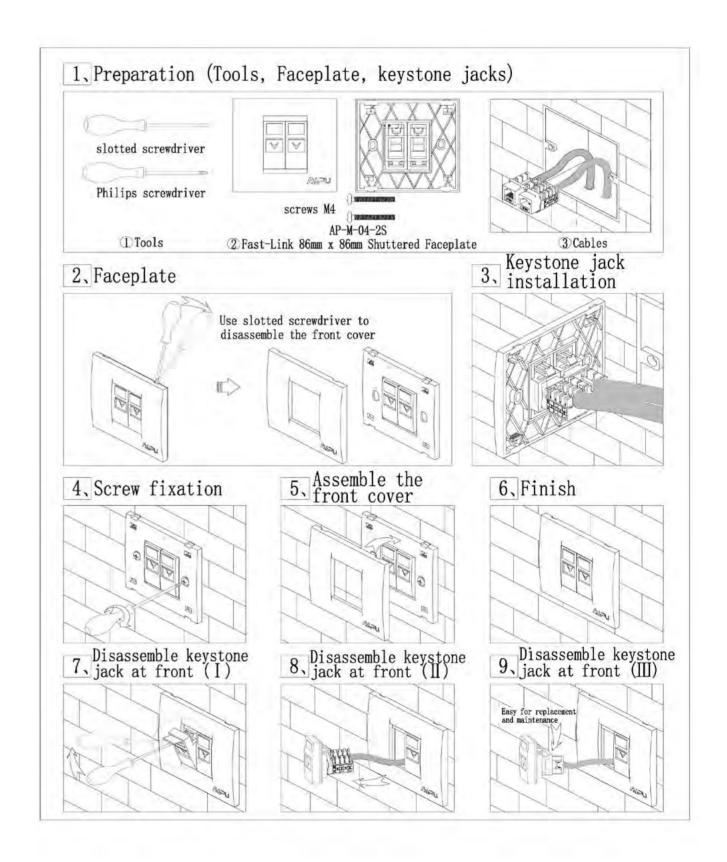
Faceplate Installation Guide

Dual Ports 86 Standard Faceplate



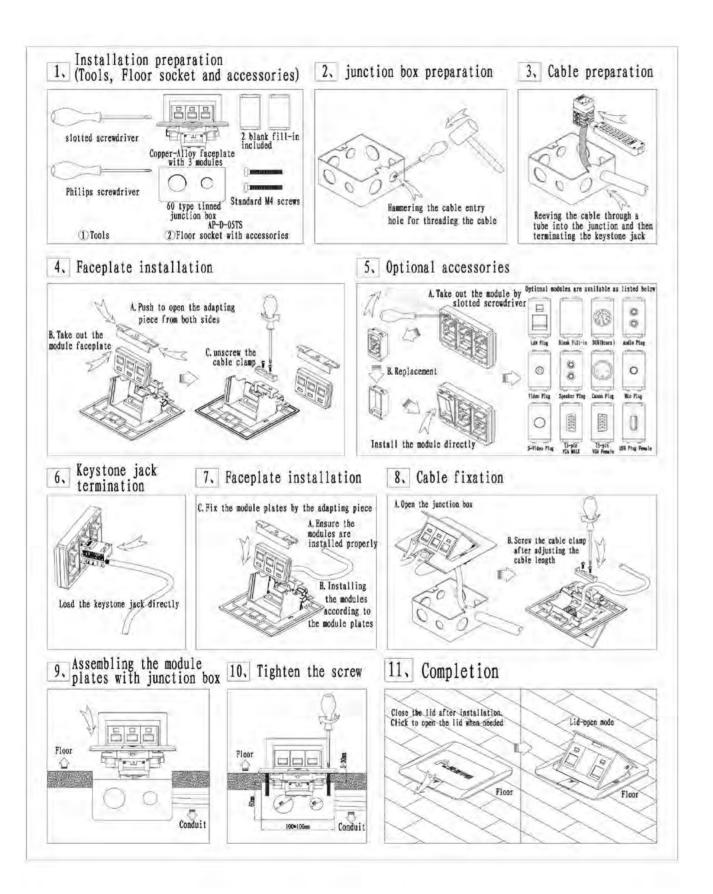
Faceplate Installation Guide

Fast-Link Dual-Ports 86 Standard Faceplate



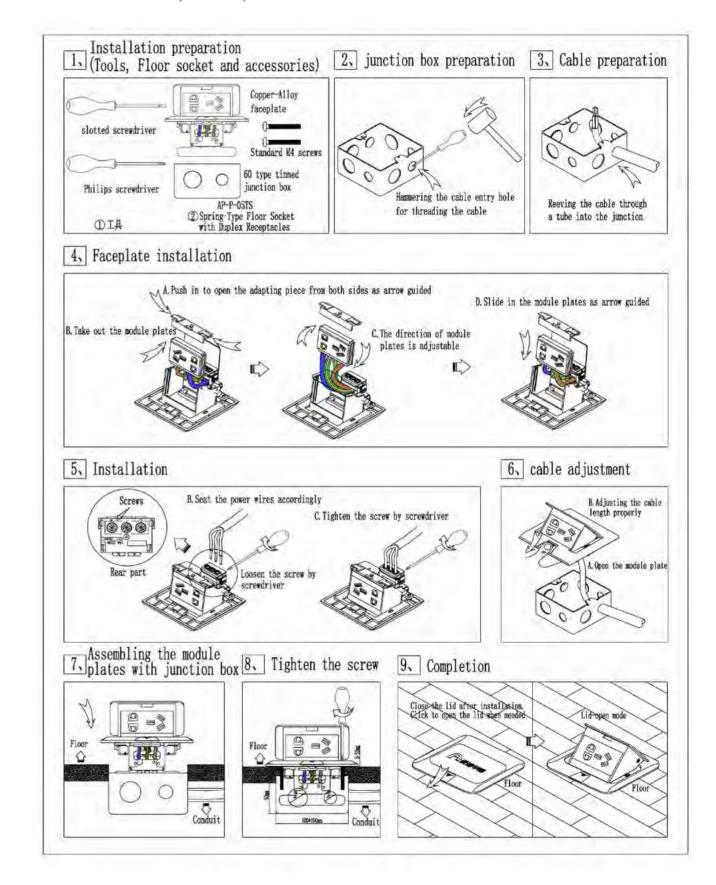
www.aipu-waton.com

Floor Socket Dimension



Floor Socket Dimension

Floor Socket with Duplex Receptacles

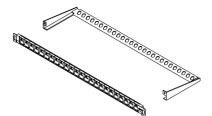




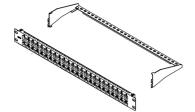


Patch Panel
Generic Cabling System www.aipu-waton.com

Patch Panel Category



0.5U 24-Ports Patch Panel



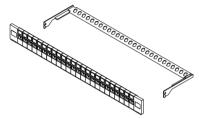
1U 48-Ports Patch Panel



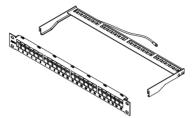
45 ° Entry Unshielded Patch Panel



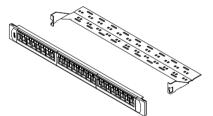
45 ° Entry Shielded Patch Panel



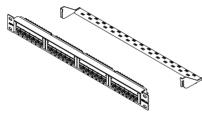
Fast-Link 24-Ports Unshielded RJ45 Patch Panel



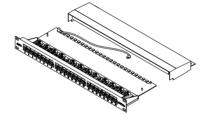
Fast-Link 24-Ports Shielded RJ45 Patch Panel



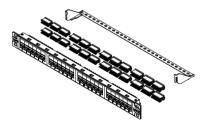
24-Ports RJ45 Patch Panel



Cat.5e 24-Ports Unshielded RJ45 Patch Panel



Cat.5e 24-Ports Shielded RJ45 Patch Panel



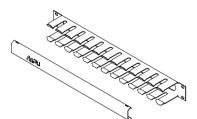
Cat.6 24-Ports Unshielded RJ45 Patch Panel



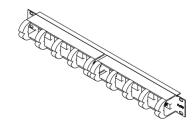
Cat.6 24-Ports Shielded RJ45 Patch Panel



100-pair 110-Style Wiring Block



12 Ports Rackmount Cable Management



110-Style Wiring Block

www.aipu-waton.com Patch Panel Generic Cabling System

Fast-Link 1U 24-Ports Unshielded RJ45 Patch Panel

Photo



Description

- > 19" rack mount in 1U height.
- > Dust-Proof Design
- > With 24 conveniently labeled RJ45 ports, the Fast-Link Patch Panel makes patching cables in high-density IT environments simple.
- > All of the ports are clearly numbered on both the front and back so IT managers can easily identify cable runs.
- > Integral cable management shelf equipped.

Standard

TIA 568C

Specification

Parameter	Data
Physical	Black Metal Frame
Plastic Material	ABS
Number of Port	1-24
Height	1U
Installation	Compatible with all 19" racks and cabinets
Keystone Jack Frame	Dust-proof Designed. Organic Glass Label.
Installation and Maintenance	Front and back side.

Installation

Mounts in standard 19" Racks or Cabinet.

Package

Packaged in colored carton box with mounting kit.

Order Information

Model	Part	Specification	Qty Per Pack
APWT-24-KS	Fast-Link 1U 24-Ports Unshielded RJ45 Patch Panel	Rack mountable on a 19 rack, dust-proof design.	1

Fast-Link 1U 24-Ports Shielded RJ45 Patch Panel

Photo



Description

- > 19" rack mount in 1U height.
- > With 24 conveniently labeled RJ45 ports, the Fast-Link Patch Panel makes patching cables in high-density IT environments simple.
- > Full metal frame for providing great shielding.
- > Panels are supplied with rear cable management and grounding wire lugs.

Standard

TIA 568C

Specification

Parameter	Data
Physical	Full metal frame
Number of Port	1-24
Height	10
Installation	Compatible with all 19" racks and cabinets
Grounding	Grounding wire lugs at back
Cable Manager	2*12 Rear Cable Management

Installation

Mounts in standard 19" Racks or Cabinet.

Package

Packaged in colored carton box with mounting kit.

Order Information

Model	Part	Specification	Qty Per Pack
APWT-24-KPS	Fast-Link 1U 24-Ports Shielded	Rack mountable on a 19 rack , full metal frame	1

1U 24-Ports Shielded RJ45 Patch Panel

Photo

www.aipu-waton.com



Description

- > 19" rack mount in 1U height.
- > Suitable for 180° keystone jack and CATV keystone jack installation.
- > Panels are supplied with rear cable management

Standard

TIA 568C

Specification

Parameter	Data
Physical	Full cold rolled steel.
Number of Port	1-24
Height	10
Installation	Compatible with all 19" racks and cabinets
Cable Manager	2*12 Rear Cable Management

Installation

Mounts in standard 19" Racks or Cabinet.

Package

Packaged in colored carton box with mounting kit.

Order Information

Model	Part	Specification	Qty Per Pack
APWT-24-K	1U 24-Ports Shielded RJ45 Patch Panel	Rack mountable on a 19 rack, supply with rear cable management	1

www.aipu-waton.com

www.aipu-waton.com Generic Cabling System

Patch Panel

Cat 5e. 1U 24-Ports Unshielded RJ45 Patch Panel

Photo



Description

- > 19" rack mount in 1U height.
- > Patch panels are used for terminating horizontal or backbone installation cables and for serving as an interface to the various network equipment.
- > With 24 conveniently labeled RJ45 ports, the Fast-Link Patch Panel makes patching cables in high-density IT environments simple.
- > Compatible with RJ11 keystone jacks.
- > Panels are compatible with standard 110 or IDC termination.
- > Fully enclosed design for protection of printed circuitry during termination.
- > Panels are supplied with rear cable management.

Standard

TIA 568C

Specification

Parameter	Data
Category Performance	Cat.5e Unshielded
Physical	Cold Rolled Steel
RJ45	24 ports, fully enclosed design, Unshielded.
RJ45 Insertion life cycle	≥ 750 Cycles
Installation	Compatible with all 19" racks and cabinets
Termination	IDC or 110 termination, Conductor 0.4~0.6mm
IDC Insertion Life	≥ 250 Cycles
Cable Manager	1*24 Rear Cable Management

Installation

Package

Mounts in standard 19" Racks or Cabinet.

Packaged in colored carton box with mounting kit.

Order Information

Model	Part	Specification	Qty Per Pack
APWT-5E-04-24	Cat 5e. 1U 24-Ports Unshielded RJ45 Patch Panel	Rack mountable on a 19 rack , full metal frame.	1

Cat 5e. 1U 24-Ports Shielded RJ45 Patch Panel

Photo



Description

- > 19" rack mount in 1U height.
- > Patch panels are used for terminating horizontal or backbone installation cables and for serving as an interface to the various network equipment.
- > Compatible with RJ11 keystone jacks.
- > The jacks are thoroughly shielded and snap into place on the patch panel for ease of installation, punching down and replacement or relocation of individual ports.
- > Features a grounding wire, fully enclosed shielding, clamps to hold cables in place, and 110 style punch down.

Standard

TIA 568C

Specification

Parameter	Data
Category Performance	Cat.5e Shield
Physical	Full metal frame , Shielding thickness: 1.5mm
RJ45	24 ports, fully enclosed design, shielded.
RJ45 Insertion life cycle	≥ 750 cycles
Installation	Compatible with all 19" racks and cabinets
Termination	110 Termination, Conductor 0.4~0.6mm
IDC Insertion Life	≥ 250 Cycles
Cable Manager	1*24 Rear Cable Management , metal cable clamps.

Installation

Mounts in standard 19" Racks or Cabinet. Packaged in colored carton box with mounting kit.

Package

Order Information

Model	Part	Specification	Qty per Pack
APWT-5E-04-24P	Cat 5e. 1U 24-Ports Shielded RJ45 Patch Panel	Rack mountable on a 19 rack , full metal frame.	1

www.aipu-waton.com

www.aipu-waton.com

Cat 6. 1U 24-Ports Unshielded RJ45 Patch Panel

Photo



Description

- > 19" rack mount in 1U height.
- > Patch panels are used for terminating horizontal or backbone installation cables and for serving as an interface to the various network equipment.
- > Compatible with RJ11 keystone jacks.
- > Panels are compatible with standard 110 or IDC termination.
- > Fully enclosed design for protection of printed circuitry during termination.
- > Panels are supplied with rear cable management.

Standard

TIA 568C

Specification

Parameter	Data
Model	AP-6-04-24
Category Performance	Cat.6 Unshielded
Physical	Cold rolled Steel
RJ45	24 ports, Unshielded.
RJ45 Insertion life cycle	≥ 750 cycles
Installation	Compatible with all 19" racks and cabinets
Termination	IDC or 110 termination, Conductor 0.4~0.6mm
IDC Insertion Life	≥ 250 cycles
Cable Manager	1*24 Rear Cable Management

Installation

Package

Mounts in standard 19" Racks or Cabinet.

Packaged in colored carton box with mounting kit.

Order Information

Model	Part	Specification	Qty Per Pack
APWT-6-04-24	Cat 6. 1U 24-Ports Unshielded RJ45 Patch Panel	Rack mountable on a 19 rack	1

Cat 6 1U 24-Ports Shielded RJ45 Patch Panel

Photo



Description

- > 19" rack mount in 1U height.
- > Patch panels are used for terminating horizontal or backbone installation cables and for serving as an interface to the various network equipment.
- > Compatible with RJ11 keystone jacks.
- > The jacks are thoroughly shielded and snap into place on the patch panel for ease of installation, punching down and replacement or relocation of individual ports.
- > Features a grounding wire, fully enclosed shielding, clamps to hold cables in place, and 110 style punch down.

Standard

TIA 568C

Specification

Parameter	Data
Category Performance	Cat.6 Shielded
Physical	Full metal frame , Shielding thickness: 1.5mm
RJ45	24 ports, fully enclosed design, shielded.
RJ45 Insertion life cycle	≥ 750 cycles
Installation	Compatible with all 19" racks and cabinets
Termination	110 Termination, Conductor 0.4~0.6mm
IDC Insertion Life	≥ 250 cycles
Cable Manager	1*24 Rear Cable Management , metal cable clamps.

Installation

Mounts in standard 19" Racks or Cabinet.

Package

Packaged in colored carton box with mounting kit.

Patch Panel

Generic Cabling System

Order Information

Model	Part	Specificaiton	Qty per Pack
APWT-6-04-24P	Cat 6. 1U 24-Ports Shielded RJ45 Patch Panel	Rack mountable on a 19 rack	1

www.aipu-waton.com

www.aipu-waton.com

Cat 6. 1U 24-Ports Unshielded RJ45 Patch Panel

Photo





Description

- > 19" rack mount in 1U height.
- > With 24 conveniently labeled, color coded Patch Panel makes patching cables in high-density IT environments simple.
- > Compatible with RJ11 keystone jacks.
- >Patch panels are used for terminating horizontal or backbone installation cables and for serving as an interface to the various network equipment.
- > Features a grounding wire, fully enclosed shielding, clamps to hold cables in place, and 110 style punch down.
- > Fully enclosed design for protection of printed circuitry during termination.
- > Panels are supplied with rear cable management.

Standard

TIA 568C

Specification

Parameter	Data
Category Performance	Cat.6 Unshielded
Physical	Cold rolled Steel
RJ45	24 ports
RJ45 Insertion life cycle	≥ 750 cycles
Installation	Compatible with all 19" racks and cabinets
Termination	IDC or 110 termination, Conductor 0.4~0.6mm
IDC Insertion Life	≥ 250 cycles
Cable Manager	1*24 Rear Cable Management

Installation

Package

Mounts in standard 19" Racks or Cabinet.

Packaged in colored carton box with mounting kit.

Order Information

Model	Part	Specification	Qty Per Pack
APWT-6-04-24S	Cat 6. 1U 24-Ports Unshielded RJ45 Patch Panel	Rack mountable on a 19 rack	1

110-Style Wiring Block

Photo



Description

- > Multi-Application Support, ideal for use in cross-connect and consolidation point applications
- > Compatible with all 19" racks and cabinets
- > Termination strips on the base are marked in 5-pair increments.
- > 110 Style Connector Clips (Blocks) included

Standard

TIA 568C

Specification

Parameter	Data
Wiring Block Material	ABS
IDC	PC with Nickel Plated Phosphor Bronze Pin
IDC Insertion Life	≥ 250 cycles
Pair Density	100 Pairs (100ch analog signal or 50ch digital signal)

Installation

Available as a rack mount and wall mount installation

Apply with multi-pair color spectrum wiring

Package

Packaged in colored carton box with mounting kit.

Patch Panel

Generic Cabling System

Order Information

Model	Part	Specification	Qty Per Pack
APWT-T-02-100J	110-Style Wiring Block	Rack mountable on a 19 rack	1

Metal Cable Manager

Photo



Description

- > Horizontal Cable management
- > Flexible fingers allow for easy installation, removal and maintenance of cables
- > Features hinge cover allows for easy cable access
- > Easily mounts to a standard 19" rack unit for convenience

Specification

Parameter	Data
Cable Manager	12-Port , 1U
Material	Plastic steel frame (Black)
Installation	Mounting screws

Order Information

Model	Part	Specification	Qty per Pack
APWT-J-01-LG-12	Metal Cable Manager (12-Port)	Horizontal Cable Manager - Single-Sided, 1U	1

110 CABLE MANAGEMENT BLOCK

Photo



Description

- > Horizontal Cable management
- > Works 110 wiring blocks

Specification

Parameter	Data
Cable Manager	110 Type Plastic Wiring Block, Height: 1U
Material	Back: Plastic coated steel (Black), Front: White ABS
Installation	Mounting screws

Order Information

Model	Part	Specification	Qty Per Pack
APWT-J-01-L-110	110 CABLE MANAGEMENT BLOCK	110 Type Plastic Wiring Block, 1U	1

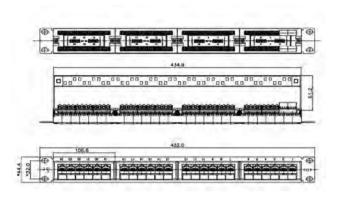
Keystone Jack-Patch Panel Match Table

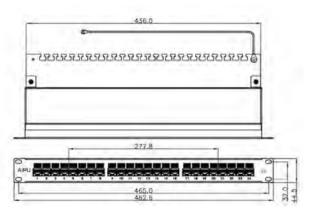
www.aipu-waton.com

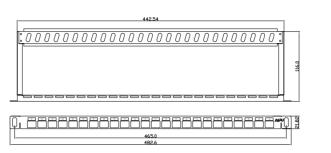
Model	24-Ports Patch Panel AP-24-K	Fast-Link 24-Ports Unshielded RJ45 Patch Panel AP-24-KS	Fast-Link 24-Ports Shielded RJ45 Patch Panel AP-24-KPS	0.5U 24-Ports Patch Panel AP-24-HK	1U48-Ports Patch Panel AP-48-HK	24-Ports Unshielded RJ45 Patch Panel AP-24U-AK	24-Ports Shielded RJ45 Patch Panel AP-24S-AK
Cat.3 RJ11 Keystone Jack AP-3-03D	-	-	-	-	-	-	-
CATV Keystone Jack AP-M-TV-1	-	-	-	-	-	-	-
Cat.5e 90° Unshielded RJ45 Keystone Jack AP-5E-03-90	-	-	-	-	-	-	-
Cat.5e 180° Unshielded RJ45 Keystone Jack AP-5E-03-180	0	0	-	0	0	-	
Cat.5e Tool-Free Unshielded RJ45 Keystone Jack AP-5E-03-M	-	-	-	-	-	-	-
Cat.5e Shielded RJ45 Keystone Jack AP-5E-03P	-	-	0	-	-	-	-
Cat.6 180° Unshielded RJ45 Keystone Jack AP-6-03-180	0	0	-	0	0	-	-
Fast-Link Cat.6 Unshielded RJ45 Keystone Jack AP-6-03S	-	-	-	-	-	-	-
Fast-Link Cat.6 Shielded RJ45 Keystone Jack AP-6-03PS	-	-	0	-	-	-	-
Cat.6A Unshielded RJ45 Keystone Jack AP-6A-03	0	0	-	0	-	-	-
Fast-Link Cat.6A Tool-Free Shielded RJ45 Keystone Jack AP-6A-03P	-	-	0	-	-	-	-
Cat.6 UTP Keystone Jack (45° Entry Patch Panel Exclusive) AP-24U-6M	-	-	-	-	-	0	-
Cat.6A UTP Keystone Jack (45° Entry Patch Panel Exclusive) AP-24U-6M	-	-	-	-	-	0	-
Cat.6 STP Keystone Jack (45° Entry Patch Panel Exclusive) AP-24S-6K	-	-	-	-	-	-	0
Cat.6A STP Keystone Jack (45° Entry Patch Panel Exclusive) AP-24S-6AK	-	-	-	-	-	-	0

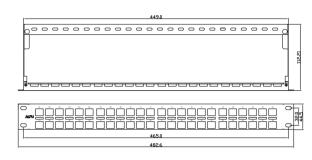
Notes : O Suggested - Not suggested

Patch Panel Dimension







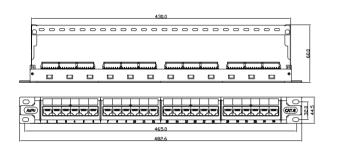


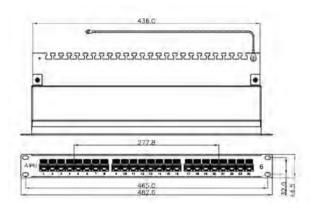
Cat.5e Unshielded Patch Panel

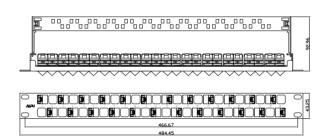
Cat.5e Shielded Patch Panel

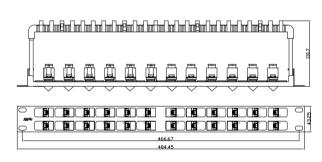
0.5U 24-Port Patch Panel

1U 48-Port Patch Panel







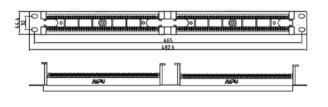


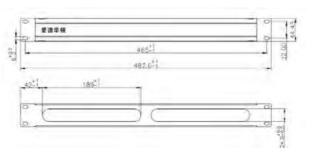
Cat.6 Unshielded Patch Panel

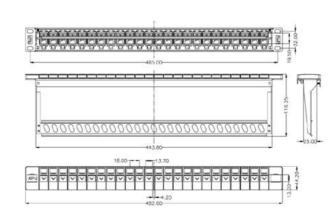
Cat.6 Shielded Patch Panel

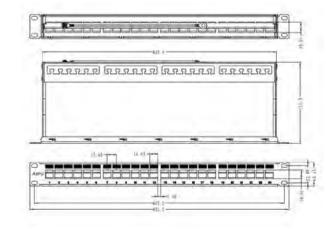
45° Entry Unshielded Patch Panel

45° Entry Shielded Patch Panel









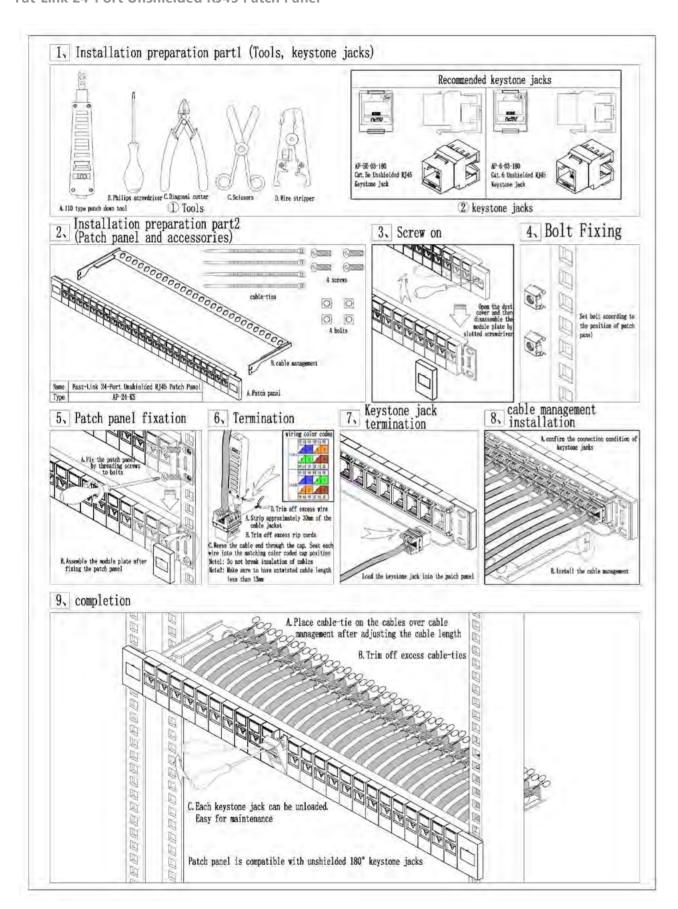
110-Style Wiring Block

110 CABLE MANAGEMENT BLOCK (12-Port)

Fast-Link Unshielded Patch Panel Fast-Link Unshielded Patch Panel

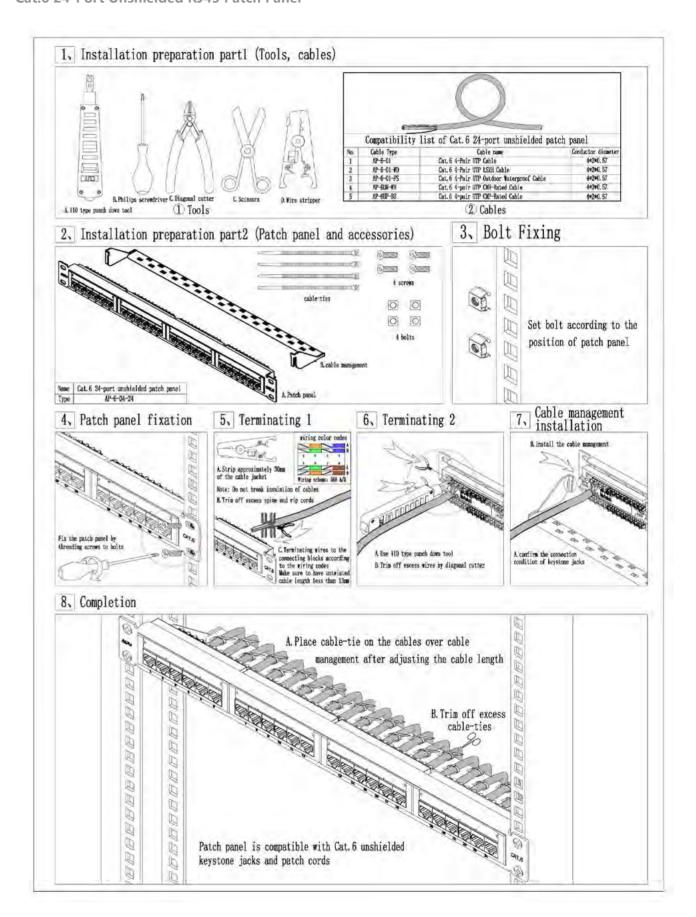
Installation Guide

Fat-Link 24-Port Unshielded RJ45 Patch Panel



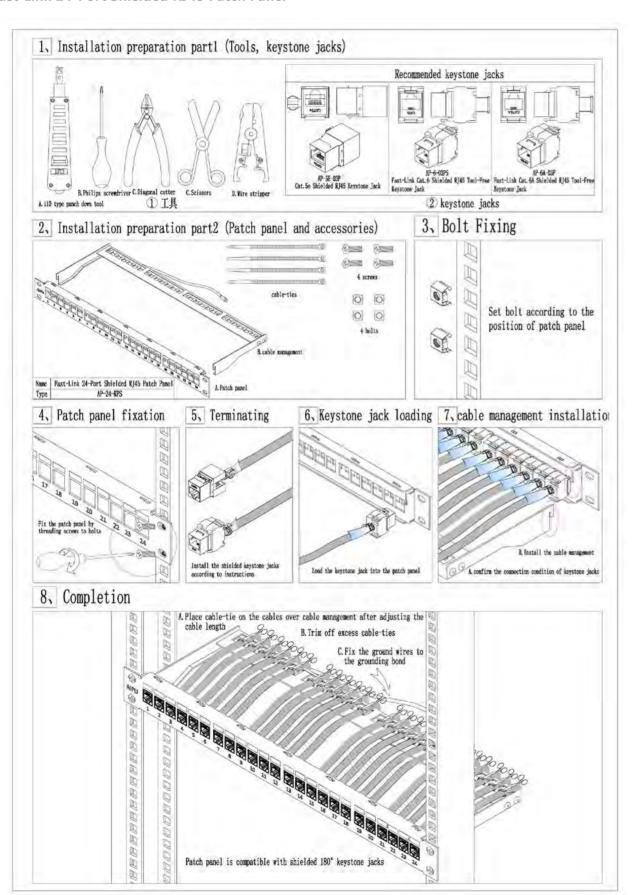
Installation Guide

Cat.6 24-Port Unshielded RJ45 Patch Panel



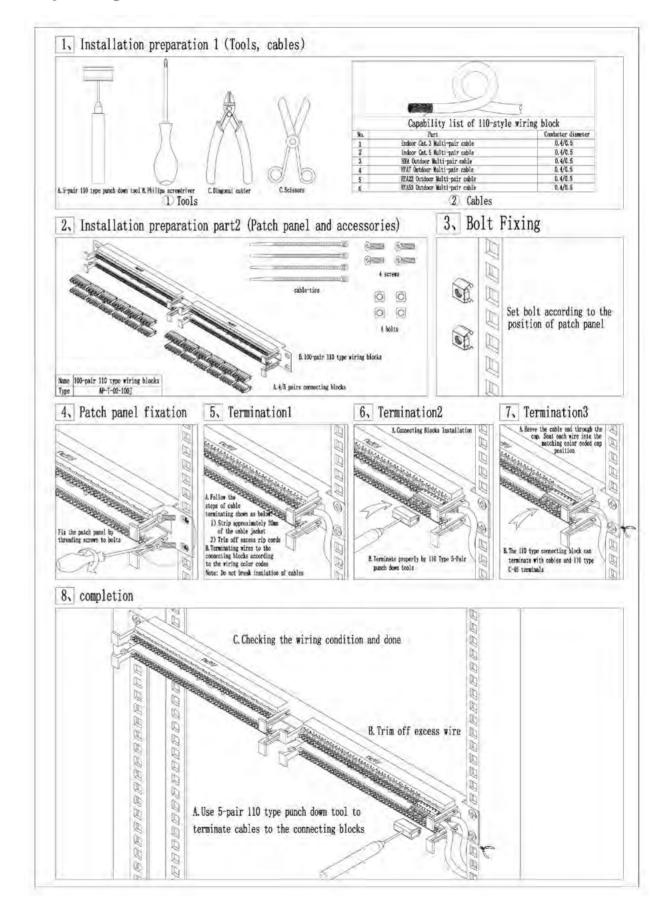
Patch Panel Installation

Fast-Link 24-Port Shielded RJ45 Patch Panel



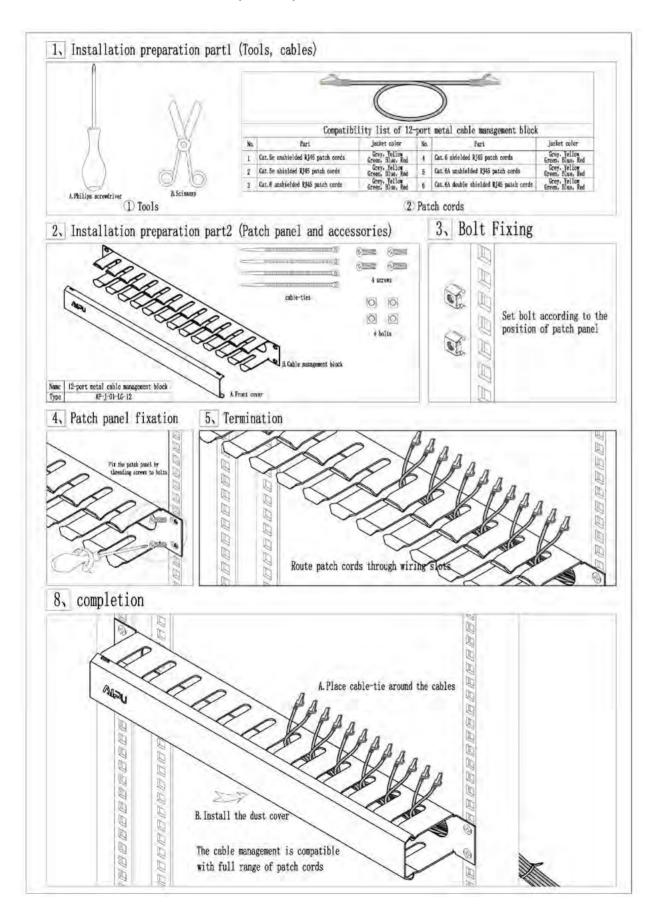
Wiring Block Installation

110-Style Wiring Block



CABLE MANAGEMENT BLOCK Installation Guide

110 CABLE MANAGEMENT BLOCK (12-Port)



110 Type Patch Cords

Photo







Color : Grey

Description

- > Connecting 110 type wiring block to RJ45 patch panel, horizontal audio cabling system.
- > For 2 cores telephone cable connecting, 1pc patch cord for 1 telephone signal.
- > Integral injected Structure of 8P8C connector guarantee connecting between cable and RJ45 plug
- > Plug Material: PC

Standard

TIA 568C

Specification

Parameter	Data
Connector	1Pair 110 connector & injected RJ45 connector
Audio System	2 cores analogue telephone signal
Wire Gauge	28AWG
Sheath	PVC
Impedence	100±15Ω
OD	3mm
Color	Grey
Length	2m

Installation

Bend radius $\geq 2 \times \text{patch cord diameter.}$

Package

Single product packaged in designed PP bag , multiple products packaged in designed carton box.

Order Information

Model Part		Specification	Qty Per Pack
APWT-5E-02-110	1P 110-RJ45 Patch Cord	110 Patch Cord (2m)	1

 $_{29}$ $_{3}$

Patch Cord Generic Cabling System

www.aipu-waton.com

www.aipu-waton.com

CAT.5e Unshielded RJ45 Patch Cord

Photo







Description

- > Used for connecting device with module or patch panel in working are or management subsystem.
- > Meets and/or exceeds CAT5e ANSI T568B standards.
- > Features 2 x shielded RJ45 50-micron Gold molded male connectors with integral strain relief. The cable is manufactured from PVC, 4-pair, stranded twisted pair, provide superior conductivity.
- > Length: 1, 2, 3, 5, 10m, color: grey, yellow, green, blue, red.

Standard

TIA 568C

Specification

Parameter	Data
Connector	Gold molded RJ45 male-male plug
Category Performance	Cat.5e Unshielded
Wire Gauge	24AWG
Sheath	PVC
Impedence	100±15Ω
OD	5.4±0.2mm
Color	Grey/Yellow/Green/Blue/Red
Length	1/2/3M

Installation

Bend radius $\geq 4 \times \text{patch cord diameter.}$

Package

Single product packaged in designed PP bag, multiple products packaged in designed carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-5E-02-X	CAT.5E Unshielded RJ45 Patch Cord	Grey/Yellow/Green/Blue/Red	1

CAT.5e Shielded RJ45 Patch Cord

Photo





Color: Grey Yellow Green

Patch Cord

Generic Cabling System

Description

- > Used for connecting device with module or patch panel in working are or management subsystem.
- > Meets and/or exceeds CAT5e ANSI T568B standards.
- > Features 2 x shielded RJ45 50-micron Gold molded male connectors with integral strain relief. The cable is manufactured from PVC, 4-pair, stranded shielded twisted pair, provide superior conductivity.
- > Length: 1, 2, 3, 5, 10m, color: grey, yellow, green, blue, red.

Standard

TIA 568C

Specification

Parameter	Data
Connector	Gold molded RJ45 male-male plug
Category Performance	Cat.5e Shielded
Wire Gauge	24AWG
Sheath	PVC
Impedence	100±15Ω
OD	6.2±0.2mm
Color	Grey/Yellow/Green/Blue/Red
Length	1/2/3M

Installation

For maximum protection against EMI/RFI interference, use our Cat5e shielded patch panel and Cat5e shielded keystone jacks for complete end-to-end protection. Bend radius ≥ 8×patch cord diameter.

Package

Single product packaged in designed PP bag , multiple products packaged in designed carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-5E-02-XD	CAT.5E Shielded RJ45 Patch Cord	Grey/Yellow/Green/Blue/Red	1

Patch Cord
Generic Cabling System

www.aipu-waton.com

www.aipu-waton.com

CAT.6 Unshielded RJ45 Patch Cord

Photo





Description

- > Used for connecting device with module or patch panel in working are or management subsystem.
- > Meets and/or exceeds CAT6 ANSI T568B standards.
- > Features 2 x shielded RJ45 50-micron Gold molded male connectors with integral strain relief.
- > The cable is manufactured from PVC, 4-pair, stranded twisted pair, provide superior conductivity.
- > Length: 1, 2, 3, 5, 10m, color: grey, yellow, green, blue, red.

Standard

TIA 568C

Specification

Parameter	Data
Connector	Gold molded RJ45 male-male Plug
Category Performance	Cat.6 Unshielded
Wire Gauge	24AWG
Sheath	PVC
Impedence	100±15Ω
OD	6.2±0.2mm
Color	Grey/Yellow/Green/Blue/Red
Length	1/2/3M

Installation

Bend radius $\geq 4 \times$ patch cord diameter.

Package

Single product packaged in designed PP bag , multiple products packaged in designed carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-6-02-X	CAT.6 Unshielded RJ45 Patch Cord	Grey/Yellow/Green/Blue/Red	1

CAT.6 Shielded RJ45 Patch Cord

Photo





Patch Cord

Generic Cabling System

Description

- > Used for connecting device with module or patch panel in working are or management subsystem.
- > Meets and/or exceeds CAT6 ANSI T568B standards.;
- > Features 2 x shielded RJ45 50-micron Gold molded male connectors with integral strain relief.
- > The cable is manufactured from PVC, 4-pair, stranded shielded twisted pair, provide superior conductivity.
- > Length: 1, 2, 3, 5, 10m, color: grey, yellow, green, blue, red.

Standard

TIA 568C

Specification

Parameter	Data
Connector	Gold molded RJ45 male-male Plug
Category Performance	Cat.6 Shielded
Wire Gauge	26AWG
Sheath	PVC
Impedence	100±15Ω
OD	6.4±0.2mm
Length	1/2/3M

Installation

For maximum protection against EMI/RFI interference, use our Cat5e shielded patch panel and Cat5E shielded keystone jacks for complete end-to-end protection. Bend radius ≥ 8×patch cord diameter.

Package

Single product packaged in designed PP bag , multiple products packaged in designed carton box.

Order Information

Model	Specification	Qty per Pack
APWT-6-02-XD	CAT.6 Shielded RJ45 Patch Cord	1

Patch Cord Generic Cabling System

www.aipu-waton.com

Patch Cord www.aipu-waton.com Generic Cabling System

CAT.6A Unshielded RJ45 Patch Cord

Photo





Description

- > Used for connecting device with module or patch panel in working are or management subsystem.
- > Meets and/or exceeds CAT6A ANSI T568B standards.
- > Features 2 x shielded RJ45 50-micron Gold molded male connectors with integral strain relief.
- > The cable is manufactured from PVC, 4-pair, stranded twisted pair, provide superior conductivity.
- > Length: 1, 2, 3, 5, 10m, color: grey, yellow, green, blue, red.

Standard

TIA 568C

Specification

Parameter	Data
Connector	Gold molded RJ45 male-male Plug
Category Performance	Cat.6A
Wire Gauge	26AWG
Sheath	PVC
Impedence	100±15Ω
OD	6.2±0.2mm
Length	1/2/3M

Installation

Bend radii ≥ 4×patch cord diameter.

Package

Single product packaged in designed PP bag , multiple products packaged in designed carton box.

Order Information

Model	Part	Qty per Pack
APWT-6A-02-X	CAT.6A Unshielded RJ45 Patch Cord	1

CAT.6A Shielded RJ45 Patch Cord

Photo





Description

- > Used for connecting device with module or patch panel in working are or management subsystem.
- > Meets and/or exceeds CAT6A ANSI T568B standards.
- > Features 2 x shielded RJ45 50-micron Gold molded male connectors with integral strain relief.
- > The cable is manufactured from PVC, 4-pair, stranded shielded twisted pair, provide superior conductivity.
- > Length: 1, 2, 3, 5, 10m, color: grey, yellow, green, blue, red.

Standard

TIA 568C

Specification

Parameter	Data
Connector	Gold molded RJ45 male-male Plug
Category Performance	Cat.6A
Wire Gauge	26AWG
Sheath	PVC
Impedence	100±15Ω
OD	6.4±0.2mm
Length	1/2/3M

Installation

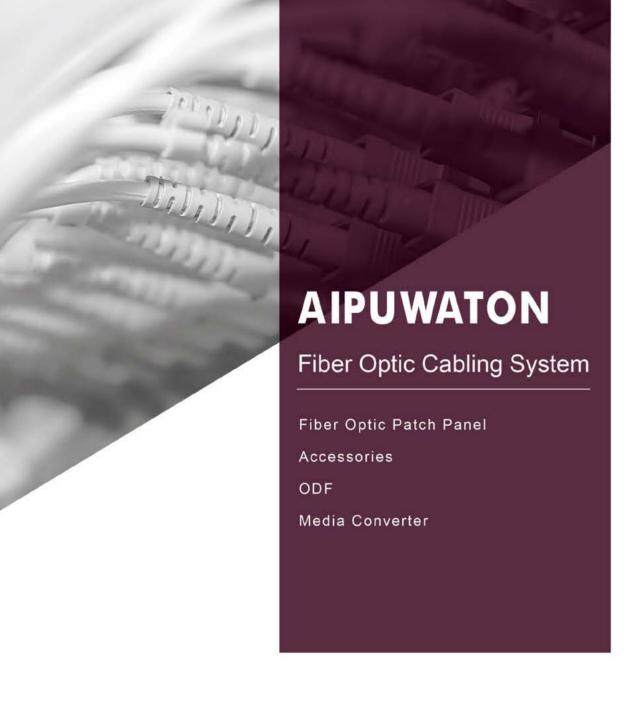
For maximum protection against EMI/RFI interference, use our Cat5E shielded patch panel and Cat5E shielded keystone jacks for complete end-to-end protection. Bend radii ≥ 8×patch cord diameter.

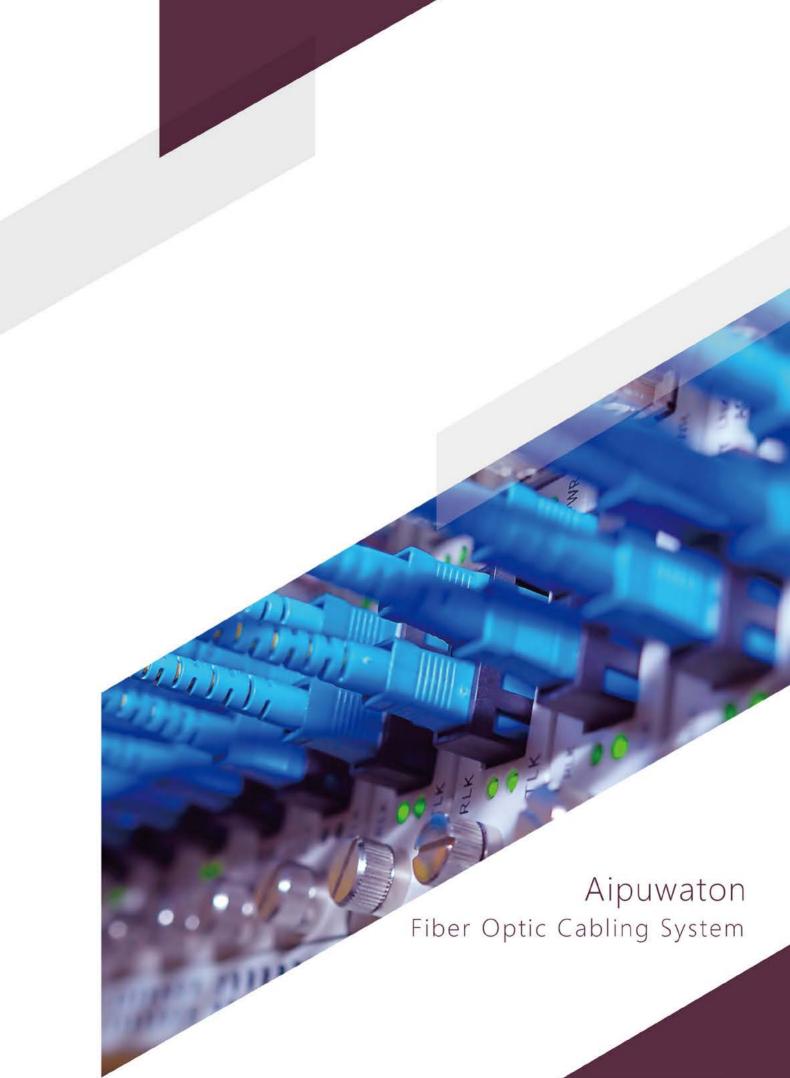
Package

Single product packaged in designed PP bag , multiple products packaged in designed carton box.

Order Information

Model	Part	Qty per Pack
APWT-6A-02-XD	CAT.6A Unshielded RJ45 Patch Cord	1





www.aipu-waton.com

www.aipu-waton.com

24/48-Core Fiber Distribution Unit

Photo



Fiber Optic Cabling System

Generic Cabling System

Description

- > Fiber splicing, fixation, storage, distribution all in one.
- > It can be built into a 19 " rack using a 1U adapter panel, sliding tray design.
- > Fully-enclosed design with dust proof , splicing up to 96 core fibers.
- > It features tool-free fiber adapter plate and splice cassette.
- > Cable, pigtails, patch cords are running through own path without disturbing each other, cassette type SC adapter installation, easy maintenance.

Standard

TIA 568C

Specification

Parameter	Data
Height	1U up to 24 ports, 2U up to 48 ports
Material	Cold rolled steel (Black)
Cable Inlet	Rear cable
Access	Sliding drawer
Loaded fiber	2-4
Structure	Pigtail+adapter+ adapter plate
Installed accessories(24 Port/48 Port)	12 SC(LC Duplex) port adapter plate*2/4 , 12 splice tray*2/4
Optional accessories	12ports splicing tray*1
Splicing capacity	48/96 (24 Port/48 Port)

Installation

Package

Mounted into a 19' rack

Carton box.

Order Information

Model	Part	Specification	Qty per Pack
APWT-P-04-P-24A	24-Core Fiber Distribution Unit	483*300*44.5mm	1
APWT-P-04-P-48A	48-Core Fiber Distribution Unit	483*300*44.5mm	1

12-Core Fiber Distribution Cabinets

Photo



Description

- > Lock style cabinets are ideal for secure fiber connections.
- > With protective doors, dustproof.
- > Fiber splicing, fixation, storage, distribution all in one.
- > Cable, pigtails, patch cords are running through own path without disturbing each other, cassette type SC adapter installation, easy
- > Easy installations: Ready for wall mount.

Standard

TIA 568C

Specification

Parameter	Data
Dimension	(W)275*(L)225*(H)50mm
Material	Cold rolled steel (Black)
Cable inlet	4*14mm
Access	Door is right-hinged and easy to remove
Open angle	110°
Loaded fiber	2-4 Fibers
Structure	2 Areas left area for splicing right area for patching
Installed accessories	12 SC/LC Duplex ports adapter plate*1 , 12 cores splice tray*1
Optional accessories	12 cores splice tray*1
Adapter capacity	12/24(Add 12 cores splice tray*1)

Installation

Package

6mm or 11mm mounting screws.

Carton box.

Order Information

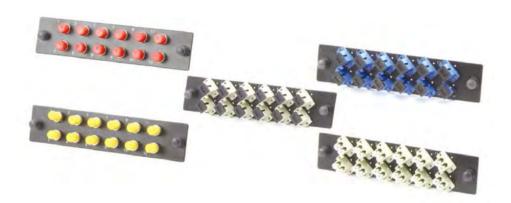
Model	Part	Specification	Qty per Pack
APWT-P-04-P-12BA	12-Core Fiber Distribution Cabinets	275*225*50mm	1

www.aipu-waton.com

Fiber Optic Cabling System Generic Cabling System

12-Port Fiber Optic Adapter Plate

Photo



Description

- > Designed to fit all fiber optic blank patch panels, rack and wall mount enclosures.
- > Ideal for network specific backbone and horizontal cross-connect applications.
- > Product category:
- 1. SC Simplex/LC Duplex adapter plate , 12 ports , 12/24 splices.
- 2. ST Simplex/FC Simplex adapter plate, 12 ports, 12 splices.
- 3. Specialty Adapter Plate.

Standard

TIA 568C

Specification

Parameter	Data
Material	Aluminum
Surface	Sprayed plastic (Black)
Port	12 Ports
Installation	Fiber cabinet
Plate Dimension	175*38mm

Installation Package

Mounts in fiber cabinet. 10pcs/Pack

Order Information

Model	Part	Specification	Qty per Pack
APWT-P-04-M-12A	12-port fiber optic adapter plate	175*38 , SC/LC	1
APWT-P-04-M-12T	12-port ST adapter plate	175*38 , ST/FC	1
APWT-P-04-M-12B	12-port Specialty Adapter Plate	175*38mm,blank plate	1

Fiber Splice Tray

Photo

www.aipu-waton.com



Description

- > Designed for providing protection and slack management of spliced fiber inside of a fiber enclosure.
- > Material: ABS, 12 splices for each splice tray.
- > 4 splice trays can fit into 24 ports cabinet. Installable for 1U 48 port cabinet.
- > Maximum 8 splice trays can fit into 48 ports cabinet. Installable for 2U 96 port cabinet.

Standard

TIA 568C

Specificaiton

Parameter	Data
Dimension	165*104*10mm
Material	ABS
Capacity	Up to 12 splices
Installaton	Stack

Installation Package

Mounts in fiber cabinet. 10pcs/Pack

Order Information

Model	Part	Specificaiton	Qty per Pack
APWT-P-04-P-01R	Splice Tray	165*104*10mm , 12 splices	1

www.aipu-waton.com

www.aipu-waton.com

Fiber Optic Cabling System
Generic Cabling System

Fiber Optic Pigtails

Photo



Description

- > Termination of optical networks via fusion or mechanical splicing.
- > Terminated with a range of connectors including SC/ST/FC/LC.

Standard

YD/T 1272-2005

Specification

Parameter	Data
Connector	SC/ST/FC/LC
Pin	UPC
Insertion Loss	0.2dB
Return Loss	≥ 50 dB
Construction	Tight Buffered
OD	2.0/3.0mm
Sheath	PVC
Fiber Types	OM1/OM2/OM3/OS2
Length	1/1.5M
Color	OM1/OM2 Orange , OM3 Aqua , OS2 Yellow

Installation

Bend radii ≥ 10×fiber optic pigtail

Package

Single product packaged in designed PP bag, multiple products packaged in designed carton box.

Fiber Optic Adapters / Couplers

Photo



Description

- > Designed to connect two fiber optic cables together.
- > Available for SC/ST/FC/LC connector.

Standard

YD/T 1272-2005

Specification

Specification	Data
Connector	SC/ST/FC/LC
Material	High Strength & Density Zirconia Tube
Insertion Loss	0.2dB

Installation

Installable on patch panel and adapter plate.

Package

50 pcs/Pack

www.aipu-waton.com

www.aipu-waton.com

Fiber Optic Cabling System

Generic Cabling System

Optic Distribution Frame

Photo





Description

Optical distribution frame is a fiber optic management unit used to organize the fiber optic cable connections. Fiber splicing, fixation, storage, distribution all in one.

Standard

TIA 568C

Specification

Parameter	Data
Capacity	12/24/36/48/72/96/144 splices
Material	1.0mm galvanized steel
Adpater Installation	Flanged Installaton
Cable Inlet	14mm inlet hole at 4 corners of ODF sealed by cusion.
Access	Sliding Tray

Installation

Package

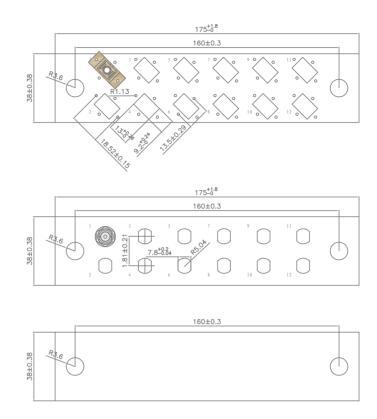
Rack mountable on 19" rack.

Carton Box.

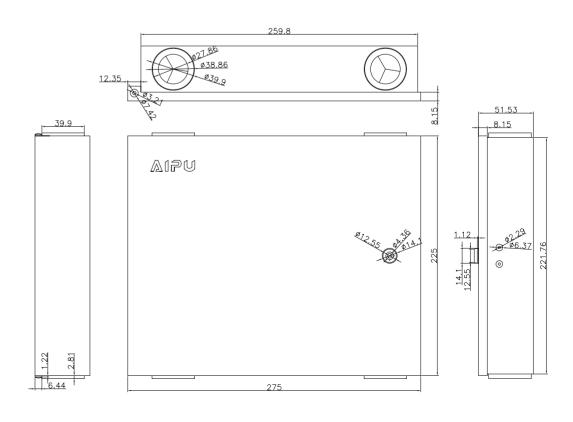
Order Information

Model	Part	Specification	Qty per Pack
APWT-P-04-P-12D	12 Fiber Splices ODF	Pigtail/Adapter not included	1
APWT-P-04-P-24D	24 Fiber Splices ODF	Pigtail/Adapter not included	1
APWT-P-04-P-36D	36 Fiber Splices ODF	Pigtail/Adapter not included	1
APWT-P-04-P-48D	48 Fiber Splices ODF	Pigtail/Adapter not included	1
APWT-P-04-P-72D	72 Fiber Splices ODF	Pigtail/Adapter not included	1
APWT-P-04-P-96D	96 Fiber Splices ODF	Pigtail/Adapter not included	1
APWT-P-04-P-144D	144 Fiber Splices ODF	Pigtail/Adapter not included	1

Adapter Plate Dimension



12-Port Wall-Mountable Fiber Optic Distribution Cabinet

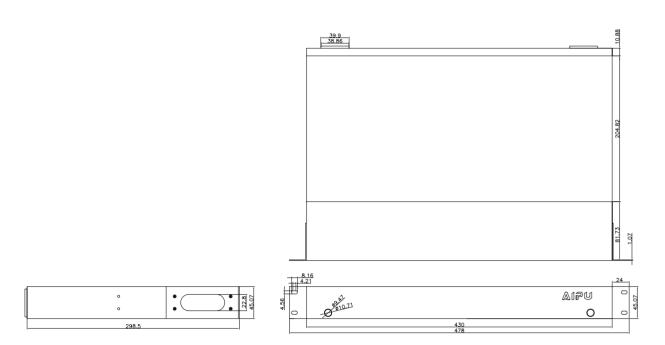


Fiber Optic Cabling System

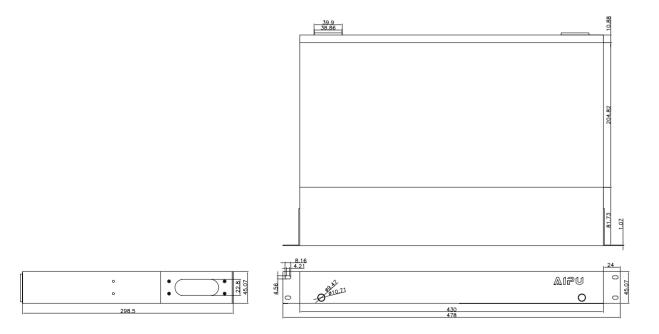
Generic Cabling System

www.aipu-waton.com

24-Port Wall-Mountable Fiber Optic Distribution Cabinet



48-Port Optic Distribution Frame



Fiber Optic Cabling System www.aipu-waton.com

Generic Cabling System

10/100MBps 2KM Fast Ethernet Fiber Media Converter

Photo



Description

An economical way to extend the distance up to 2 Km (1.2 Miles) of remote Gigabit network nodes by converting Cat5/6 UTP Ethernet to Fiber Optic while still maintaining the existing infrastructure.

- > Compliant with IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX, 100Base-FX Standards
- > 10/100Mbps and full/half duplex automatically configure in TP port.
- > MDI/MDI-X Auto Negotiation.
- > Supports flow control and broadcast storm protection.
- > Supports jumbo packets up to 1916 bytes (Optional).
- > Surge protection;
- > Supports Multimode 50/125 cable up to 2km or 62.5/125 cable up to 400M
- > LED Indicators: : Power , TX 100 , TX Link/Act , FX 100 , FX Link/Act , FDX ;
- > AC Adapter : DC5V 1.2A ;
- > Operating Temperature (°C): 0 ~ 70;
- > Storage Temperature(°C): -20 ~ 70;
- > Dimension(mm) : 95 (L) *70 (W) *26 (H.

Standard

YD/T 1464-2006

Specification

Connector: SC*2;

Fiber Standard: G.651 Multimode;

Wavelength: 1300nm;

TX Power: -20~-10.0dBm;

RX Sensitivity: <-30dBm;

Transmission Distance: 2KM;

Order Information

Model	Part	Specification
APWT-F-D-2SC-A2	10/100MBps 2KM Fast Ethernet Fiber Media	External Power Supply included
7(1 VV1 1 D 25C 7(2	Converter	External rower supply included

www.aipu-waton.com

Fiber Optic Cabling System www.aipu-waton.com Generic Cabling System

10/100MBps 20KM Fast Ethernet Fiber Media Converter

Photo



Description:

Fiber Media Converter 10/100 Mbit/s for a quick and plug and play media conversion between fiber optical cables with distances up to 20 km and UTP copper.

- > Compliant with IEEE 802.3 10Base-T and IEEE 802.3u 100Base-TX, 100Base-FX Standards
- > 10/100Mbps and full/half duplex automatically configure in TP port.;
- > MDI/MDI-X Auto Negotiation.
- > Supports flow control and broadcast storm protection.
- > Supports jumbo packets up to 1916 bytes (Optional).;
- > Surge protection ;
- > Fiber lengths up to 20Km;
- > Supports CAT5/CAT5E UTP cable and G.652 single mode fiber. (G.652D recommended) ;
- > LED Indicators: Power, TX 100, TX Link/Act, FX 100, FX Link/Act, FDX
- > External Power Supply: DC5V 1.2A;
- > Operating Temperature (°C): 0 ~ 70;
- > Storage Temperature(°C): -20 ~ 70.

Standard

YD/T 1464-2006

Specification

Connector: SC*2;

Fiber Standard: G.652 single mode (G.652D recommended);

Wavelength: 1310nm; TX Power: -20~-10.0dBm; RX Sensitivity: <-30dBm; Transmission Distance: 20KM;

Order Information

Model	Part	Specification
APWT-F-D-20SC-B2	10/100MBps 20KM Fast Ethernet Fiber Media Converter	External Power Supply included

Gigabit 20KM Fast Ethernet Fiber Media Converter

Photo



Description:

Transfers data over a single singlemode fiber at 1000Mbps (at 1310nm and 1550nm) and connects to copper Ethernet at 10, 100 or 1000 Mbps while auto-sensing the correct speed

- > Compliant with IEEE802.3z/AB, 1000Base-TX and 1000Base-LX standards
- > 10/100/1000Mbps and full/half duplex automatically configure in TP port.
- > MDI/MDI-X Auto Negotiation
- > Supports flow control and broadcast storm protection
- > Bandwidth : 12G
- > Surge protection
- > Fiber lengths up to 20Km (Full Duplex)
- > LED Indicators : Power , FX Link/Act , TP FDX , TP Link/Act , TP 100 , TP 1000
- > Power Supply: DC5V 2A
- > Operating Temperature (°C): 0 ~ 50
- > Storage Temperature(°C): -20 ~ 70
- > Dimension(mm): 95 (H) *70 (W) *26 (H)

Standard

YD/T 1464-2006

Specification

Connector : SC*2;

Fiber Standard: G.652 (G.652D recommended);

Wavelength: 1310nm (TX), 1550nm (LX);

TX Power: -20~-10.0dBm; RX Sensitivity: <-30dBm; Transmission Distance: 20KM.

Order Information

Model	Part	Specification
APWT-F-E-20SC-B2	Gigabit 20KM Fast Ethernet Fiber Media Converter	Single mode fiber, Dual Wavelength . SC . external power supply

www.aipu-waton.com

Fiber Optic Cabling System www.aipu-waton.com Generic Cabling System

14-Slot Media Converter Chassis

Photo



Description

This 14-slot chassis can hold up to 14 media converters. The chassis provides 19-inch standard rack-mount housing for the media converters. The chassis comes with its a single universal power supply. Continuous operation is of great importance to fiber communication, so the chassis is equipped with optional redundant power supply and Hot-Swapping function which allows installing/removing the converter/power supply without powering off the chassis.

Standard

YD/T 1464-2006

Specification

> Capacity: 14 slots;

> Power Input : AC 100 \sim 260V , 50 \sim 60HZ

> Power Output : DC +5V

> Vripple : ≤ 50mv

> Noise : ≤ 50mv

> Offers over-voltage and over-current protections

> Operating Temperature : 0 ~ 50°C

> Storage Temperature : -20°C ~ 70°C

> Operating Humidity : 5% ~ 90%

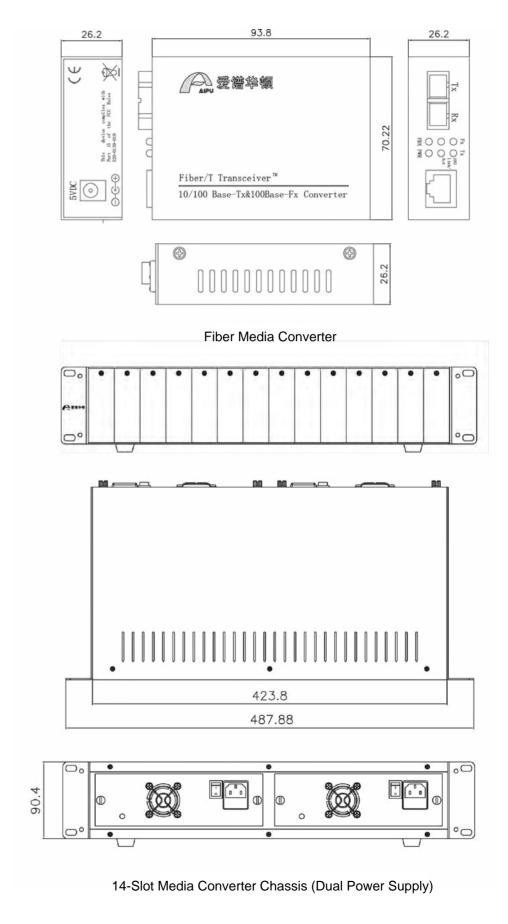
> Dimension: 485×215×90mm (L×W×H), Standard 19-Inch, 2U height

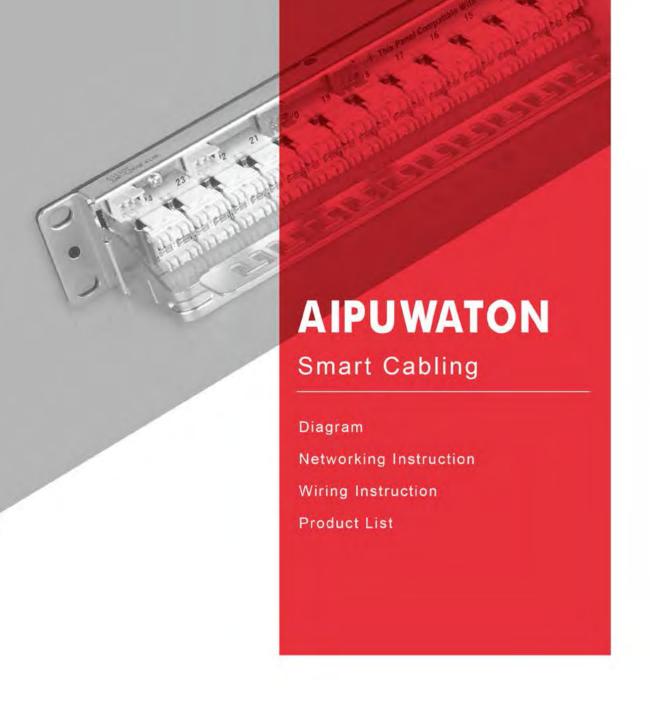
> Material: Cold-rolled steel.

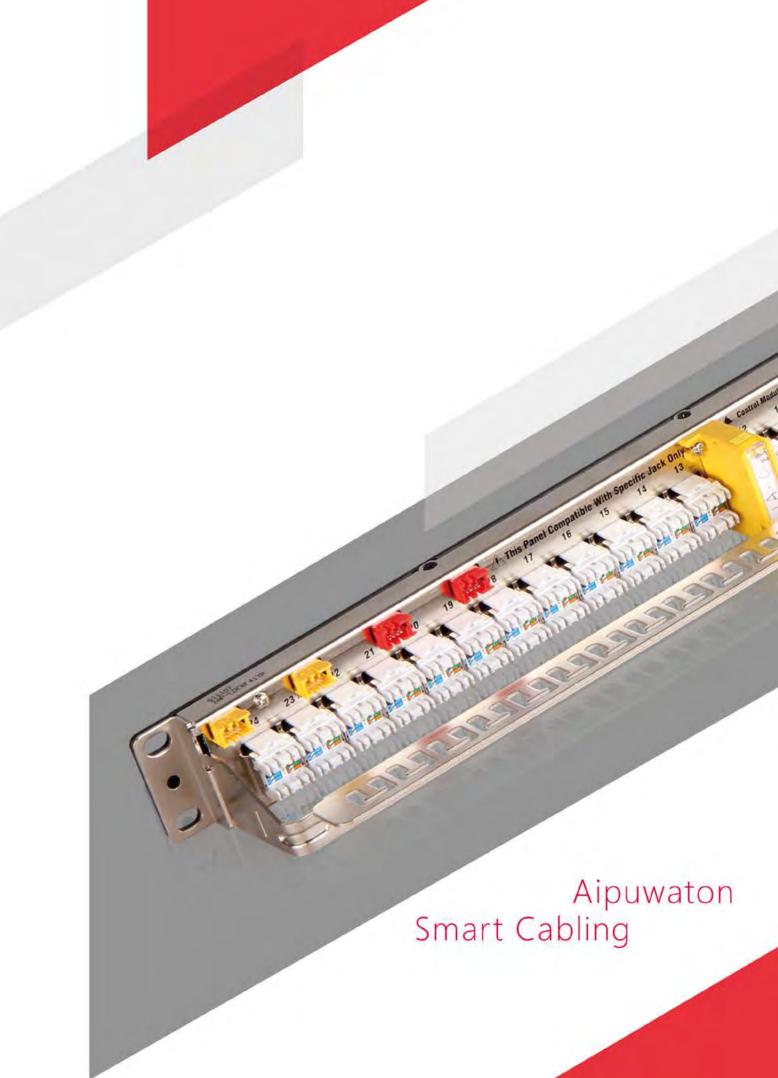
Order Information

Model	Part	Specification
APWT-FP-14P-2	14-Slot Media Converter Chassis	Dual power supplies

Media Converter and Media Converter Chassis Dimension





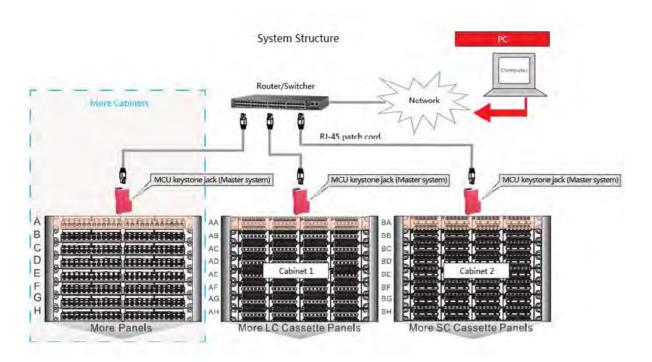


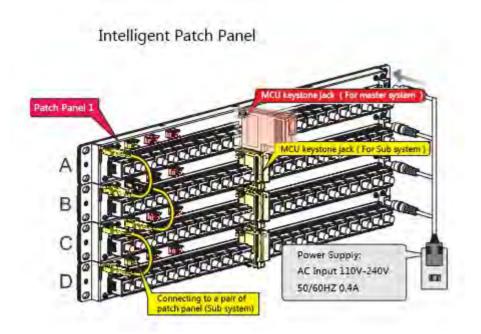
Smart Cabling
Generic Cabling System

www.aipu-waton.com

Smart Cabling www.aipu-waton.com Generic Cabling System

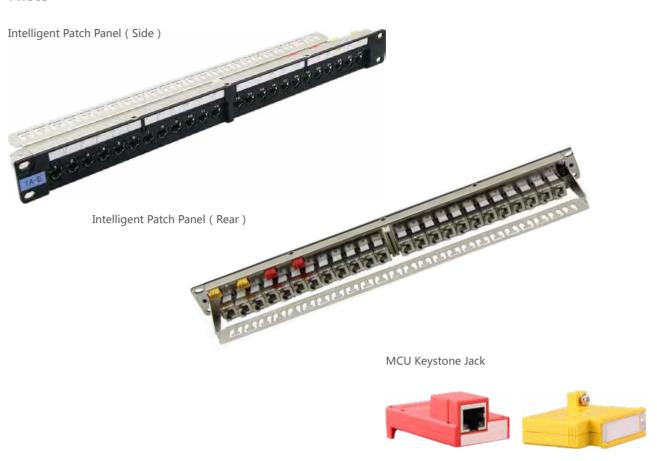
System Structure





Intelligent Cabling System

Photo



Description

Intelligent patch panels and keystone jacks make trouble-shooting physical connectivity (cabling) issues easier and automates the documentation of adds, removes and changes in the network. Unlike normal patch panels, intellegent patch panel have LED indicators for each port to identify network topology and trace cable routes throughout the network. Since the network administrator has a clear view of his entire network, Intelligent patch panels can improve visibility and enable fuller usage of network assets.

Standard

- >GB 50311-2007
- >ISO/IEC 11801-2002 Ed2.0
- >ANSI/TIA 568-C.2
- >EN 50173-2007
- >TIA/EIA-606

55 Land Control of the Control of th

Smart Cabling
Generic Cabling System
www.aipu-waton.com

Advantage

- > Dual patch panel design
- > Excellent Compatablity
- > Administrators are notified immediately in case of any connection issues/ problems.
- > Real time location information of all the devices, including the ones causing network trouble, can be tracked.
- > Automates change management
- > LED indicator
- > Port Management supports up to 38,400 ports.

Application

- > Audio、Data、Video Transmission
- > 10Base-T、100Base-T、1000Base-T
- > ATM155Mbps、Token Ring 100 Mbit/s

Specification

Parameter	Data
Category Performance	CAT 6 FTP
Number of patch panels	up to 1600
Number of ports	up to 100000
Operating Length	≥ 1KM
Indicator	LED
Standard	Comply with TIA/EIA-606-A, Class 3a
Maximum Power Consumption	1.2 KW.h/Patch panel
Minimum Power Consumption	0.05 KW.h/Patch panel

Installation

- > One piece of red MCU keystone jack supports up to 39 yellow MCU keystone jacks connection.
- > Please use intellegent keystone jacks only.

Smart Cabling www.aipu-waton.com Generic Cabling System

Cat.6 24 -Port Intelligent RJ45 Patch Panel

Photo



Description

Metal Material: Steel

Plastic Part: PBT 、PC 、ABS

Power Consumption: 0.05 KW.h/Yr

LED Color : Red(or Green)

IDC Pin: Nickel Plated Phosphor Bronze

Thickness of plated gold: 50µm

Keystone Jack: shielded

RJ45 connector: 1-24 patch cords

Termination : 110 Termination, Conductor $0.4 \sim 0.6 mm$

Installation: Mounts to standard 19" rack

Cable Manager: 1*24 rear cable management

Installation method: Mounting screws included

Maintenance : Access from rear side

Height: 1U

Frequency: 0 ~ 250MHz

Operating Voltage: 125V

Withstand Voltage: 750V

Insertion Loss: 0.4dB@100MHz

Impedence : $\geq 100M\Omega$ Insertion force : $\leq 20N$ Withdraw force : $\geq 20N$

RJ45 insertion life : \geq 750 cycles IDC insertion life : \geq 250 cycles Operating temperature : -40 \sim 70°C

Operating Humidity: 85%

Smart Cabling
Generic Cabling System

www.aipu-waton.com

Smart Cabling www.aipu-waton.com Generic Cabling System

MCU Keystone Jack

Photo



Description

Material : PBT Color : Red

Port control: Up to 960 ports

Connection: RJ45 Patch Cord (Cat 5E Cat 6)

Comply with IEEE802.3 10Base-T 和 IEEE802.3u 100Base-TX

MDI/MDI-X Auto Negotiation.

Features module management platform

LED indicator

Installation: Insertion

Operating Temperature : $-10 \sim +50^{\circ}$ C Storage Temperature : $-20 \sim +70^{\circ}$ C

MCU Keystone Jack

Photo



Description

Model : LDSMCU Material : PBT Color: Yellow

Port Control: Up to 24 ports

Connection: SL cable

Installation: Insertion

Operating Temperature : -10 ~ +50°C

Order Information

ı	Model	Photo	Part	Specification
	LDC6F41YR	<u> </u>	Cat.6 24 -Port Intellegent RJ45 Patch Panel	Suitable for intellegent shielded keystone jacks installation
	LDMMCU		MCU Keystone Jack (Master System)	Features module management
	LDSMCU	C C	MCU Keystone Jack (Sub System)	Features communication between patch panel
	LDSMT01		Patch cord	Patch cord for connecting between patch panels
	LDPB		Power cord	Power Supply
	LDPC1T9		Power connector (1 to 9 ports)	Provides power connection
	LDSF		Management software Disk	Management software Installation



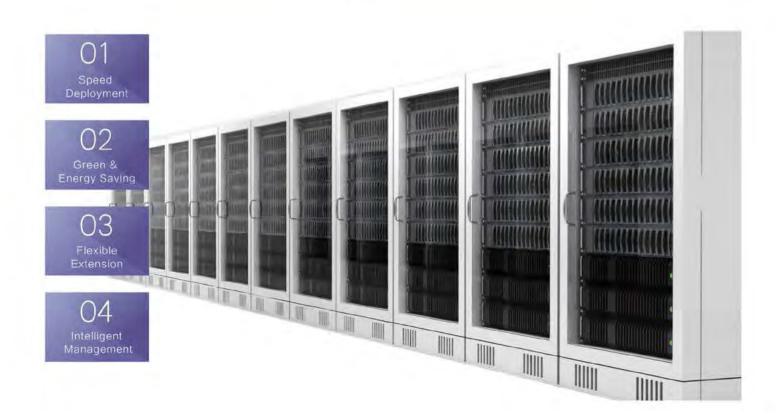
www.aipu-waton.com

New Generation of Modular Data Center Generic Cabling System

With the rapid development of cloud computing and mobile Internet, traditional data center is facing the change of high consumption, long construction period, difficult to extension, low management efficiency, etc. To meet the demand of cloud computing and virtualization, increase efficiency of data center, AIPU WATON launches new generation solution of data center infrastructure. AIPU WATON modular data center infrastructure solution, integrated with cabinet system, power supply system, refrigeration system, generic cabling system and management system, etc., effectively meets the needs of high efficient and reliable, speedy and flexible, intelligent management in the cloud era.



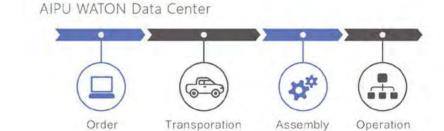
Features



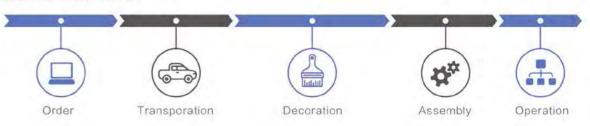




Features & Value



Traditional Data Center



New Generation of Modular Data Center Generic Cabling System

www.aipu-waton.com www.aipu-waton.com

New Generation of Modular Data Center Generic Cabling System







Adopted to closed cold/heat channel technology to avoid cold/heat airflow mixed,

Reduction in energy consumption for high density application, using linear air conditioner to realize the

near end refrigeration and promote cooling efficiency,

Reduction energy consumption 40%~50% compared with traditional data center

AIPU WATON Technical Competence

	AIPU	Leading in the Industry	Industrial Average Status
PUE		< 1.4	> 1.8
Distribution Technology	Bus duct, HVDC, DC12V, Modular UPS		Traditional Distribution, Poor Efficiency UPS
Refrigeration Technology	Cabinet Level Refrigeration and Internal cycle, closed cold/heat channel, Isolated cold and heat channel		Air-conditioner in room, Poor Efficiency Airflow
DCIM	Asset Management,	Dynamic Environmental Monitor	Dynamic Environmental Monitor



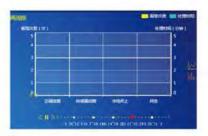


Saving Investment, Design based on demand

Modular parts and unified interface adopted to realize capacity expansion based on rack or module according to demand

Support rated power of single cabinet updated from 1KW~21KW





Column, table display history data
Remote maintenance manage big
data analysis



Support table display of data from third party



Safety & Reliability



3 Series



D3 Series

For small loading (≤1Kw) extra low voltage machine room, which has mass points distribution, narrow door or difficult movement, is unable to install exterior machine of air conditioner or drainage treatment, mainly for switch, end device, gateway firewall and video storage devices;



D5/D6 Series

For small loading (≤8Kw) access layer room, supports 1~4pcs cascading extension, simple decoration, low noise and energy saving, mainly for small amount of storage, core switch, gateway firewall and video storage device;



D7 Series

For high loading (≤100Kw) distribution layer center room with modular extension, simple decoration, low noise and energy saving, mainly for server, storage, core switch, gateway firewall and other application device;

Application



Government



Finance & Banking



Smart Community



Hotel



Judicial Prison

Network Cabinets Generic Cabling System

19 Inch Perforated Server Rack (18/24/32/37/42U)

Photo



Description

Comply with ANSI/EIA RS-310-D、IEC297-2、DIN41491; PART 1、DIN41494; PART7、GB/T3047.2- 92 standard; Compatible with ETSI standard.

- > Flexible assembly of 19" components
- > Perforated doors on front and rear for greater airflow
- > Cable entry is via the bottom , easy installation , vented top
- > Caster & Adjustable Feet, Set of 4
- > Accessories : Fan Top (2*fans) , 2*Rack Shelf , 6 cords power outlet

Specification

	Specification
Accessories	Fan Top (2*fans), 2*Rack Shelf, 1*6 cords power outlet
Material	SPCC
Door	Front Perforated Door
Thickness	SPCC , uprights 1.1mm , rack shelf 1.2mm, others 1.0mm
Surface	Degreasing, pickling, phosphoric, powder coated
Load capacity	850KG, 80KG/Rack Shelf
Color	Black
Size chart	2m/42U,1.8m/37U,1.6m/32U,1.2m/24U

Model

Model	Specification
APWT-J-01-18	19"Perforated Server Rack 600*600*1000mm 18U
APWT-J-01-24	19"Perforated Server Rack 600*600*1200mm 24U
APWT-J-01-32	19"Perforated Server Rack 600*600*1600mm 32U
APWT-J-01-37	19"Perforated Server Rack 600*600*1800mm 37U
APWT-J-01-42	19"Perforated Server Rack 600*600*2000mm 42U

19 Inch Perforated Server Rack (37/42U)

Photo



Description

Comply with ANSI/EIA RS-310-D、IEC297-2、DIN41491; PART 1、 DIN41494; PART7、 GB/T3047.2- 92 Standard; Compatible with ETSI standard.

- > Flexible assembly of 19" components.
- > Highly adaptable tp install multiple server vendors within the same rack.
- > Allows easier installation, service and maintenance.
- > Perforated doors on front and rear for greater airflow.
- > Caster & Adjustable Feet, Set of 4 : Removable side panels.

Specification

www.aipu-waton.com

	Specification
Accessories	Fan Top (2*fans), 2*Rack Shelf, 1*6 cords power outlet
Material	SPCC
Door	Front Perforated Door
Thickness	SPCC, uprights 1.1mm, rack shelf 1.2mm, others 1.0mm
Surface	Degreasing, pickling, phosphoric, powder coated
Load Capacity	700KG 100KG/Rack Shelf
Color	Black
Height	2M/42U, 1.8M/37U, 1.6M/32U, 1.2M/24U

Model

Model	Specification
APWT-J-01-37F	19 inch Perforated Server Rack 600*800*1800mm 37U
APWT-J-01-42F	19 inch Perforated Server Rack 600*800*2000mm 42U

19 Inch Fixed Wall Mount Cabinet (6/9/12Q)

Photo



Description

- > 19' standard Cabinet. Wall mountable.
- > Perfect for any small networking needs
- > Comply with ANSI/EIA RS-310-D、Compatible with ETSI standard.
- > Removable side panels , cable entry is via the bottom , easy installation , 120mm cooling fans (optional).

Specification

	Parameter
Thickness	Uprights 1mm, 1.2mm, others 1.0mm
Material	SPCC
Surface	Degreasing, pickling, phosphoric, powder coated
Load Capacity	60KG
Weight	15KG-20KG

Model

	Model	Specification
APWT-J-01-12Q		19" Wall Mount Cabinet 550*420*560mm 12U
	APWT-J-01-9Q	19" Wall Mount Cabinet 550*420*460mm 9U
	APWT-J-01-6Q	19"Wall Mount Cabinet 500*420*360mm 6U

Approach





1.UPS Host

2. Power Distribution System

3.Intelligent Shunt System

4.Industrial AC Control

5.Battery

6.Dynamic Environment Monitor

schemes refied on so-called 'chaos' air distribution methodologies, in which perimeter computer room air condition-(CRAC) units supply cool air underneath the dit is drawn upward by fans to cool servers ment. Warm air bearing the waste heat from the CRACs collect it from higher up in the under the floor to repeat the cycle.

room, cool it and return it under the floor to repeat.

Heat is then transferred out of the facility. This syste worked okay when ITE densities were low. Low densities enabled the system to meet its primary objective despite its flaws—poor efficiency, uneven cooling.

Cold Aisle Containment Diagram

1.Tempered glass fire door

2.Top fire-rated glass cover

3.Cold Aisle

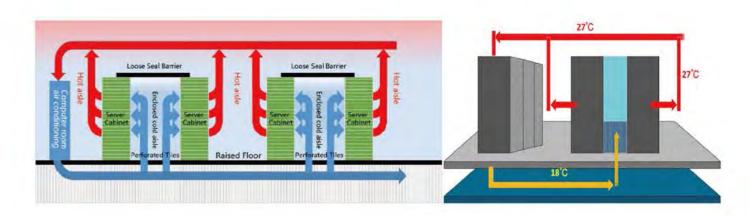
4.Cabinet

5.IT load

proven only marginally more capable of cooling toady's increasingly dense data centers, largely because both approaches ultimately share a common, fatal flaw: they allow air to move freely throughout the data center.



Cold aisle containment airflow



The core concept of AIPU cold aisle containment is to provide a cost effective solution without reduction in quality and to prevent mixing of cold air and hot exhaust air.

Customizing process











RFP

Drawing of data center and cold aisle containment

Quotation

Manufacture

Delivery Installation

Closed Data Center (Cold Channel





www.aipu-waton.com www.aipu-waton.com

Home Wiring Generic Cabling System

Fiber Optic Distribution Cal

Cabinet Selection G

The quantity and the speification of modules shall comply with the requirements of Data, Audio, CATV and low voltage cabling system.

To confirm the appearance and material of fiber optic distribution cabinet.

o confirm the capacity of istribution cabinet based on the quantity and the pecification of modules. Then the specification of distribution abinet is confirmed.

Installation Guide

Pre-Drill

According to the dimension of cabinet (400*300*120), pre-drilling to the wall for cabinet installation.

Bottom Case installation

To position the cable and remove the cable inlet plate,

Slide the cable through the bottom

Cable Entry

Slide the incoming cable into the bottom box and reserve length according to

different type of cables (50~100cm), then labeling.

Assembly of Cables to Closure

Terminating the cable by different tools and ensure the cable management.

Closure Cover Installation

Inspection and acceptance

07) Delivery

Accessories



Adapter Plate

For multimedia keystone jacks installation.

Extension Cords (2*2-Prong, 2*3-Prong)





▲ ONU Bracket

For fiber optic modem or route devices installation.





Clamps

For cable protection and fixation.

WIFI CABINET

WIFI Multimedia Box



- 01. Patch panel type 300M WIFI ROUTER
- 02. Intelligent Cooling Fan
- 03. Coin operated lock
- 04. Two-way Cable Entry Hole

- 05. ONU Bracket
- 06. Ultrathin base
- 07. Multi Plug Power Outlet



2 INTELLIGENT COOLING FAN

Intelligent Cooling fan can provide real time temperature display and it can be switched on by setting a specific temperature.

It is also available for manual start.

Integrated design for space saving.







OPERATED LOCK

Easy to use

Strong Security Performance

TWO-WAY CABLE ENTRY HOLE

Provides two ways of cabling entry.



Suitable for placing an optical modem and a

WIFI router

Integrated with splice tray at back.







MULTI PLUG POWER OUTLET

Power Input: 220V 0.1A

Power Output: 3*DC 12, 2*AC 220V

Switchable.

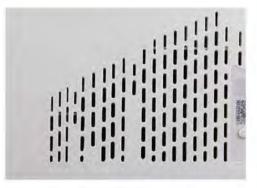


DETAILS DETERMINE OUR FUTURE DETAILS

Elegant perforated cooling vents

Hinged door design, 50% higher durability.

Copper plating screws







ORDER INFORMATION

Model	Part	Specification	Unit
AP-J-02-FRL	WIFI Cabinet	400*300*100 , Plastic frame, 1.0mm metal base, 3U, 07. Multi Plug Power Outlet, 300m Wi-Fi router	рс

PARAMETER

Front Door	Frame	Recessed	Front door	Weight	Package
material	material	dimension	dimension		includes
ABS	1.0mm SPCC	400x300x100mm	430x330x120mm	5.4Kg	WI-FI Cabinetx1 300M WI-FI Routerx1 Multi Plug Power Outletx1 Double-Deck ONU Bracket x1 Voice&CATV Keystone Jackx1 3U patch panelx1 0.5U Cable Managementx1 Intelligent Cooling Fanx1

FTTH Cabinet



Ultrathin Plastic FTTH Cabinet

>ABS (White) fully enclosed design
>Ultrathin panel, frameless design
> Powder coating
>170° (Max) open angle

Model	Part	Dimension	Qty per Pack
APWT-J-02-FPS	FPS Type Ultrathin Plastic FTTH Cabinet	350*300*120	1

Ultrathin Metal FTTH Cabinet

- >0.8mm SPCC , Powder coating (White)
- >Scuff resistance
- >170° (Max) open angle



Model	Part	Dimension	Qty per Pack
APWT-J-02-NFSL	NFSL Type Ultrathin Metal FTTH Cabinet	350*300*120	1
APWT-J-02-FSL	FSL Type Ultrathin Metal FTTH Cabinet	400*300*120	1

FTTH Cabinet



Plastic FTTH Cabinet

>ABS (White) fully enclosed design >Powder coating >100° (Max) open angle

Model	Part	Dimension	Qty per Pack
APWT-J-02-FPM	FPM Type Plastic FTTH Cabinet	350*300*120	1
APWT-J-02-FPL	FPL Type Plastic FTTH Cabinet	400*300*120	1
APWT-J-02-FPXL	FPXL Type Plastic FTTH Cabinet	450*300*120	1

Metal FTTH Cabinet

- > 1.0mm SPCC , Powder coating (White)
- > Customization available
- > 100° (Max) open angle



Model	Part	Dimension	Qty per Pack
APWT-J-02-FSS	FSS Type Metal FTTH Cabinet	350*300*120	1
APWT-J-02-431B	Metal FTTH Cabinet	450*300*120	1

Home Wiring Generic Cabling System

Cable Distribution Cabinet

Plastic Cable Distribution Cabinet

- >ABS (White) fully enclosed design
- > Powder coating
- >170° (Max) open angle





Model	Part	Dimension	Qty per Pack
APWT-J-02-PS	PS Type Plastic Cable Distribution Cabinet	280*180*100	1
APWT-J-02-PM	PM Type Plastic Cable Distribution Cabinet	300*200*100	1
APWT-J-02-PL	PL Type Plastic Cable Distribution Cabinet	300*250*100	1
APWT-J-02-PXL	PXL Type Plastic Cable Distribution Cabinet	350*300*120	1
APWT-J-02-PXXL	PXXL Type Plastic Cable Distribution Cabinet	400*300*120	1





Metal Cable Distribution Cabinet

Model	Part	Dimension	Qty per Pack
APWT-J-02-321B	Metal Cable Distribution Cabinet	300*200*100	1
APWT-J-02-331B	Metal Cable Distribution Cabinet	300*300*100	1
APWT-J-02-341B	Metal Cable Distribution Cabinet	300*400*115	1
APWT-J-02-541B	Metal Cable Distribution Cabinet	550*400*115	1

Switching Hub

www.aipu-waton.com

Telephone line distribution module

Switching Hub (1 in&5 out): APWT-J-02-15V

Features 1 to 5 ports telephone line distribution.

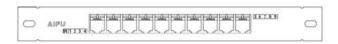
Height: 0.5U



Switching Hub (1 in&9 out): APWT-J-02-19V

Features 1 to 9 ports telephone line distribution.

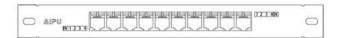
Height: 0.5U



Switching Hub (2 in&8 out): APWT-J-02-28VL

Features two sets of 1 to 4 ports telephone line distribution.

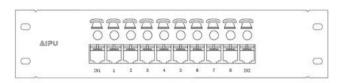
Height: 0.5U



Switching Hub with Port Controller (2 in&8 out) : APWT-J-02-28V

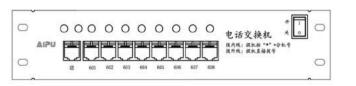
Features two sets of 1 to 4 ports telephone line distribution. Port controller features port on-off.

Height: 1U



1 to 8 ports Swtiching Hub: APWT-J-02-8SV Features 1 to 8 telephone line extensions.

Height : 1U



www.aipu-waton.com

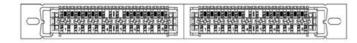
Generic Cabling System www.aipu-waton.com

Switching Hub

16 pairs Krone Type Telephone Line Switch Hub: APWT-J-02-16K

Features 16 pairs of 1 to 1 port telephone line distribution with Krone type connector.

Labelling for easy identification. Height: 0.5U



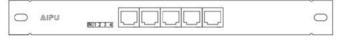
LAN Distribution Module

LAN Switch Hub (1 in&4 out): APWT-J-02-14D

Features DATA/TELEPHONE 1 to 4 ports switch.

Shielded RJ45 connector.

Height: 0.5U



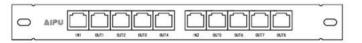
LAN Switch Hub (2 in&8 out): APWT-J-02-28D

Features two set of DATA/TELEPHONE 1 to 4 ports

switch.

Shielded RJ45 connector.

Height: 1U



5-port LAN Switch: APWT-J-02-5SD

Provides 5 10M/100M self-adaptive connectors and

LAN for 4 PCs. Power: DC7.5V. Height: 0.5U



8-port LAN Switch: APWT-J-02-8SD

Provides 8 10M/100M self-adaptive connectors and

LAN for 8 PCs. Power: DC7.5V。 Height: 1U



5-port Router: APWT-J-02-5RD

Provides 1 WAN connector, 4 LAN connectors and creates network share for 4 network terminals.

Power: DC7.5V。 Height: 0.5U



9-port Router: APWT-J-02-9RD

Provides 1 WAN connector, 8 LAN connectors and creates network share for 8 network terminals.

Power: DC7.5V. Height: 1U

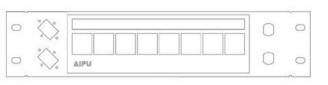


8-port blank hub: APWT-J-02-8PK

Provides 8 blank connectors and 4 blank coupler connectors. Supports CATV, CAT3, Unshielded/Shielded CAT5e, Unshielded/Shielded CAT6/6A keystone jacks.

Supports FC Square/Round, LC Duplex, SC Simplex and ST couplers.

Height: 1U



CATV Module

CATV Distribution Modules (1 in&4 out): APWT-J -02-14C

Features 1 to 4 ports CATV distribution and 5-1000MHz twoway bandwidth. The attenuation of all channels is less than 8db. Supports DTV.

Please plug impedance adaptor to the rest of blank connectors while the device is operating.

Height: 0.5U



CATV Distribution Modules (1 in&6 out): APWT-J -02-16C

Features 1 to 6 ports CATV distribution and 5-1000MHz twoway bandwidth. The attenuation of all channels is less than 10db. Supports DTV.

Please plug impedance adaptor to the rest of blank connectors while the device is operating.

Height: 0.5U



Switching Hub

www.aipu-waton.com

www.aipu-waton.com

Home Wiring Generic Cabling System

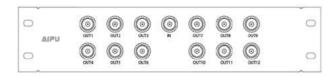
Switching Hub

CATV Distribution Modules (1 in&12 out): APWT-J -02-112C

Features 1 to 12 ports CATV distribution and 5-1000MHz two-way bandwidth. The attenuation of all channels is less than 12db. Supports DTV.

Please connect impedance adaptor to the rest of blank connector while the device is operating.

Height: 1U



CATV Distribution

Amplifier Modules (1 in&1 out): APWT-J-02-11C

Bandwidth: 5-1000MHz, Gain: 15/12dB, Flatness:±0.75dB, Input Level ≤ 80dBµV, Noise: 8dB.

Power: DC7.5V. Height: 0.5U



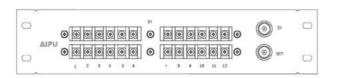
ELV Distribution Modules

12-port ELV Distribution Modules: APWT-J-02-12W

Features 12 connectors for connecting with intelligent home

Supports signal distribution (1 in&1 out) for visual access

Height: 1U



Power Distribution Modules

DC Power Distribution Modules: APWT-J-02-21P

Power Supply DC: 7.5V, AC: 220V。 Power: AC220V。 Height: 1U



AC Power Distribution Modules: APWT-J-02-A21P

Power supply

Including 1*3-prong socket and 3*2-prong sockets. Power:

AC220V。 Height: 1U



Plug

CAT.5E Unshielded Plug (100pcs/Pack)

















Cat.5e Shielded Plug (100pcs/Pack)











Tool



5-Pair 110 Punch Down **Tool with Blade** APWT-G-06-Y3

Suitable for both 110 type cable side and cross-connect side terminals blocks.



Single Pair 110 **Punch Down Tool** APWT-G-06-Y1

Provides higher cutting precision.



RJ11 & RJ45 Dual-Modular Crimp Tool APWT-G-06-45S

Designed to crimp both RJ11 and RJ45 connectors.



IDC Punch Down Tool APWT-G-06-Y2

For direct terminating on IDC connection blocks found on data and telecomm outlets.



2-in-1 Wire Stripper APWT-G-06-B

Features wire stripping and length cutting.



Wiremap Tester APWT-G-06-C

Verify the cabling network connectivity.