AVALON
Network Products

Global Network and Telecom Solutions

Quality is the priority

www.avalonnetworks.co.uk

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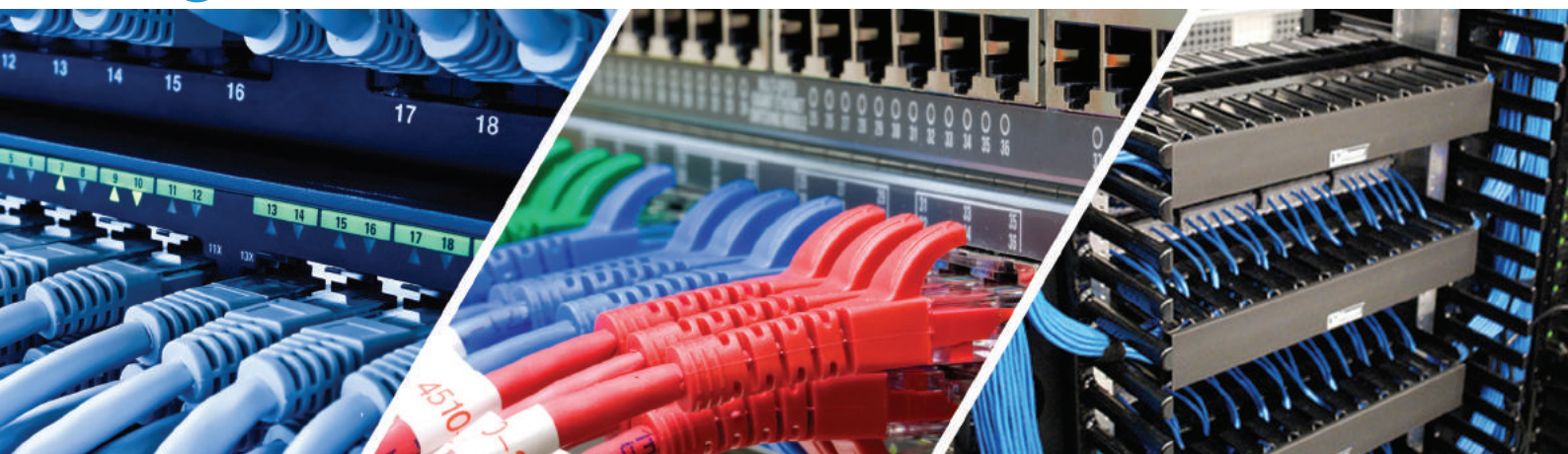Intertek

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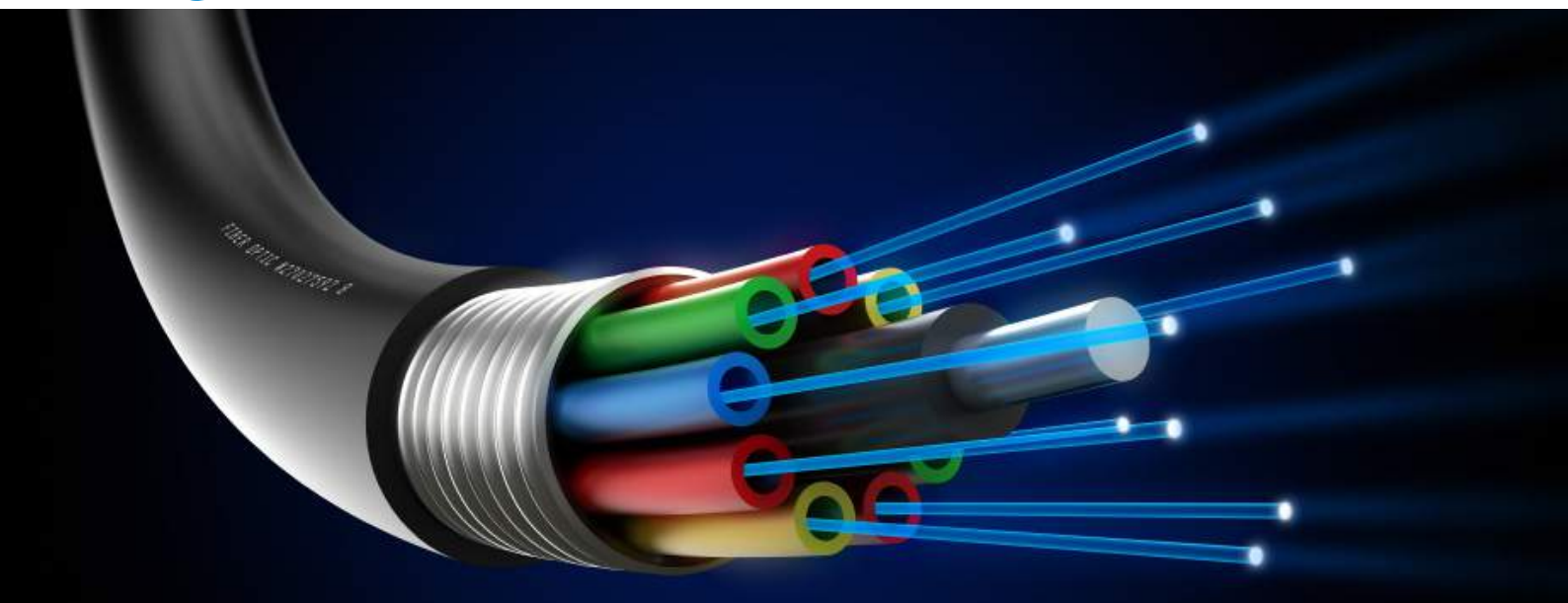
Structured Cabling Solutions

Fiber Optic Solutions

Racks & Cabinet Solutions

Welcome

Our latest catalogue contains all the essential information to help you identify and order the appropriate structured cabling, fiber optics, racks & cabinet products.

This catalogue gives you comprehensive information on each of the products listed. The product tabs on the side of the catalogue helps you to access the product information easily and quickly.

The combination of our innovation and focus on customer needs has made us bring forth many high performing networking products to a very demanding market.

We add new products to our range continuously and recommend you to visit our website **www.avalonnetworks.co.uk** for the latest information on our new products and changes to our existing products.

Thank you

Network Solutions

Structured Cabling

Fiber Optic Solutions

Racks & Cabinets

Security Solutions

Access Control Solutions

ABOUT AVALON

Avalon brand is a world-class premium performance end-to-end infrastructure solution designed, manufactured, supported and delivered without compromise.

We are driven by a team of industry experts, ensuring the latest innovation and manufacturing capabilities are implemented to surpass industry standards for quality, performance, technical compliance and ease of installation and use.

With an emphasis on compatibility and standards compliance 'from cable to rack', reliability and product availability, Avalon is the complete trusted solution. Though the brand was launched in the UK market, Avalon has enjoyed formidable growth and is sold all over Middle East today. Avalon has offices in Europe, America, Canada and Middle East.

Avalon has used its expertise to build a comprehensive range of high quality copper, fiber optic products like cable rolls, patch cords, patch panels, pigtails (multimode and singlemode), wall and splice boxes and a full range of network racks, switches and accessories to be used in local, wide area networking and telecommunication applications .

The meteoric rise of the brand reflects a growing demand throughout EMEA for a reliable, standards-compliant, readily available, structured cabling and racking system. Avalon is able to deliver this mix through a growing base of distributors and integrators across the region which combines to make the brand an increasingly viable option. With a focus on system performance, independent verification and a 15 year product and application warranty when installed by an Avalon partner, it's easy to see why this is the system of choice in many government, education, retail, finance and enterprise installations.

Building

The modern intelligent buildings integrate various extra low voltage systems like communication, building management systems and integrated service systems. The traditional systems were installed under various divisions of specifications, now many of them are networked over TCP/IP protocol.

Avalon provides solutions for communication through our comprehensive range of structured cabling solutions. Our end-to-end fiber and copper cabling solutions provide high speed connection to each office, residence and end user to enhance efficiency and quality of the working environment .

Our wide ranging fiber cabling, structured cabling, security and access control solutions cater to building management systems encompassing building automation systems, security automation systems and fire automation systems.

Communication

Communication is the backbone of every known market segment. Today communication industry is moving towards unified network for all communication needs, this convergence of voice, data and video brings the need for scalable infrastructure

Avalon provides solutions for optimization of communication infrastructure and plays a key role in ensuring profitability and superior user experience. Our optimal solutions deliver lowest cost for reliable network for the existing and emerging services.

Our wide ranging fiber and copper solutions cater from service provider to individual customer, from backbone infrastructure to premises network.

Industrial

In this age of computerization, industrial automation is becoming increasingly important in the manufacturing process. The automated machines are capable of doing repetitive work quickly and efficiently. Robotic machines can handle work that is hazardous to human to increase the productivity.

Avalon provides solutions for industrial networking that is structured and customized to individual customer requirement. We have extensive range of control and instrumentation cables that work to various proprietary cabling of reputed brands and open standards.

Avalon's products and solutions support latest PC based, networking based and networking protocol based systems to automate and control industry wide solutions.

Utilities

The influence of utility automation systems is an important aspect of everyday life in the form of electric power, gas and water utility systems. They form the backbone of the population and will impact their daily business and life.

A new trend has been rising to interconnect automation systems to achieve faster reaction time, to optimize decisions and to collaborate between plant, enterprises and industry sectors. Initially, such interconnections were based on obscure, specialized and proprietary communication means and protocols. Now more and more open and standardized internet technologies are used for this purpose.

Avalon's fiber and structured cables are used extensively in the distributed control system (DCS) and the supervisory control and data acquisition (SCADA) systems that are widely used in utility systems.
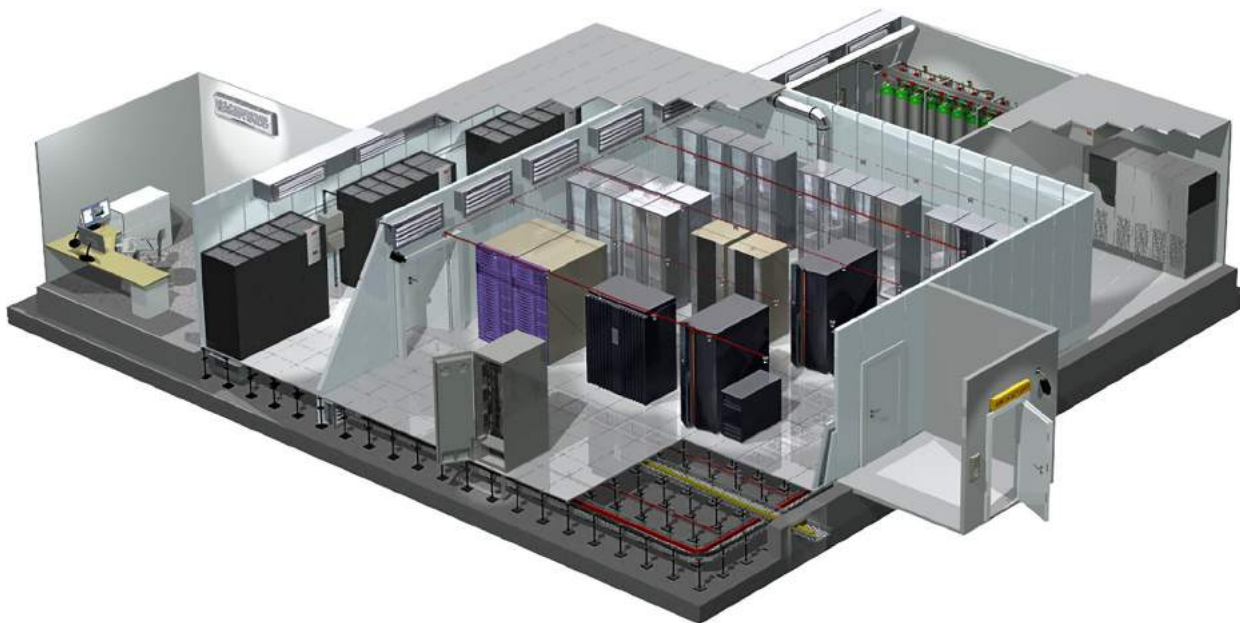
Avalon (UK) Ltd.
Your Global Data Center Solutions Provider

Manufacturer

Avalon UK has over 25+ years of experience in developing and manufacturing data center related products and experience of marketing and promoting under the brand name "Avalon". Its strength lies in its full range of products like copper, fiber, networking, racks and cabinets, fire suppresion systems, environmental monitoring systems, cooling solutions, power protection solutions, servers, storage etc , giving it an edge over the others in the worldwide market.

Quality & Service

Avalon has a dedicated team for internal quality monitoring, product upgrading, customer support and technical assistance including service and maintenance. Avalon product quality meets and exceeds the standards set by ISO.

25 Years Warranty Policy

Avalon products carry 25 years of standard performance warranty against any manufacturing defects .

Our Advantages

- ◎ 25 years performance warranty.
- ◎ Professional sales team for worldwide marketing guidance.
- ◎ Plant based product management & logistic team for quality and shipment support.
- ◎ Global availability.
- ◎ Cost effectiveness and productivity.

Avalon's Data Center Solutions

Avalon UK is a leading technology solutions provider, offering a wide range of network products, services and turnkey solutions. We provide innovative Information and Communication Technology (ICT) solutions to enhance small, mid-sized businesses and large enterprises for successful planning, employing and managing their IT infrastructure with a complete range of IT and Network products, network appliances, services and solutions designed to fulfill customer requirements.

A Data Center is usually responsible for the entire information infrastructure of the company or can be regarded as the heartbeat of any company. Most of the companies need or want a facility to store their information, run their network to process the information system. We design, implement, deploy, optimize, help certify, manage and support your data center as your end-to-end solution provider.

Our Solutions

1. Integrated structured cabling solutions, fiber optic solutions for datacenters with containment, racks, cabinets and enclosures.
2. Server, storage, routing, switching and networking solutions to increase your datacenter efficiency and performance.
3. Virtualization and cloud infrastructure for your agile datacenter.
4. Data center centralized management solutions to manage and monitor all the datacenter equipment.
5. WAN, application optimization and protection for datacenter.
6. Power backup and protection solutions to protect mission critical environments from any power failure and problems.
7. Cooling solutions to optimize your datacenter power utilization efficiency.
8. Security, access control and surveillance monitoring for a secure data center.
9. Fire suppression system and environmental monitoring system.

Our Services

Avalon data center services include management of storage repository and dissemination of data organized around a body of knowledge or pertaining to an enterprise. As such, data center services can involve hardware, software, processes and personnel.

We offer our clients the following services:

- Hardware installation and maintenance
- Managed power distribution
- Backup power systems
- Cloud based solutions
- Hosted exchange services
- Virtual mail hosting services
- Data backup and archiving
- Managed load balancing
- Controlled internet access
- Managed e-mail and messaging
- Managed user authentication and authorization
- Diverse firewalls and anti-malware programs

Structured Cabling Solutions

Cat.6 Patch Panel

AVALON   1 2 3 4 5 6   7 8 9 10 11 12   13 14 15 16 17 18   19 20 21 22 23 24   CAT 6

Cat.6 UTP Cable 23AWG	Cat.6 STP LSZH Cable 23AWG	Cat.6A STP LSZH Cable 23AWG

Cat.6 RJ45 Shielded Connector	Cat.6 RJ45 Unshielded Connector	Faceplate	Cat.6 UTP Patch Cord

Cat.6 STP Keystone Jack	Cat.6 UTP Keystone Jack		

Fiber Optic Solutions

Armoured Fiber Cable	Fiber Optic Pigtail	Splitter	Fiber Patch Panel

Un-Armoured Fiber Cable	Fiber Optic Patch Cord	Adaptor	Connector

Racks & Cabinet Solutions

Fan Filter	Cabinet Fan	Fan Unit	Brush Panel	Cable Manager	Rack Shelf	PDU

Floor Standing Racks

Enclosure	Wall Mount Cabinet 4U to 12U	12U-15U	18U-22U	24U-27U	32U-37U	42U-47U

CONTENTS

STRUCTURED CABLING SOLUTIONS

With over 20 years experience and know-how on structured cabling products design & development. With team approach and perfection, definitely we will be your first choice and reliable selection.

ISO 9001 BUREAU VERITAS Certification — BUREAU VERITAS 1828

ETL LISTED — Intertek

etisalat Approved

Structured Cabling Solutions

With over 20 years of rich experience and know-how on designing and developing communicating products, Avalon has built matured systems with high tech development, research centers, complete structural quality assurance labs and teams. With team approach and high quality structured cabling products and solutions, we will definitely be your first choice and reliable selection
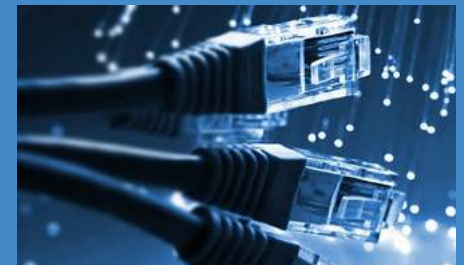
Solutions and Components

Avalon delivers end-to-end Category 6A, Category 6 and Category 5e solutions for converged networks with high flexibility and proven inter-oper-ability to ensure smooth deployment and simplified management

With our comprehensive product range, we supply components like communication cables, keystone jacks, compact outlets, patch panels, patch cables and others with system warranty. The performance of our products has been verified and certified by third party laboratory "ETL". After years of good result in the market and also systematic upgrading of our products, we assure you of great benefits both in quality and cost

Our Quality Guarantee

To build a complete high level channel in the project, the precondition is to make sure each component is built with compatible resistance and high quality rating, thus, the best solution is to use products from the same brand or single component with excellent performance. Avalon offers you with a vast range of structured cabling solutions which fulfill these require-ments. With a specific definition and well defined qualification procedure, our products ease the installation process and have shown convincible field test results

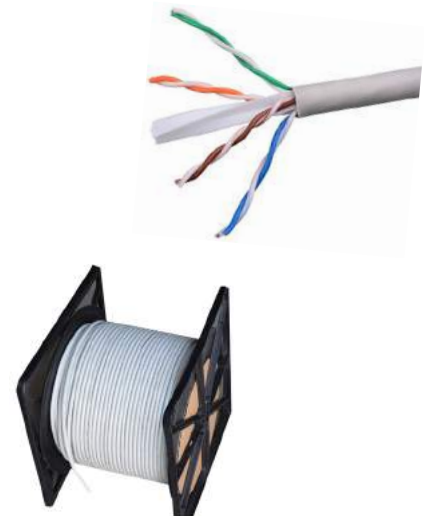# AVALON
Structured Cabling Solutions

Category 6, 6A & 5e

Unshielded Twisted Pair Cable Rolls

Avalon cables are the best twisted-pair cables in the market for transmitting data over Local Area Networks (LAN). As streaming video and multimedia over LAN are gaining popularity, users demand faster data transmission and reduced waiting time. These cables are ideal for simple, cost-effective and high-speed transmission performance. They support a higher signal-to-noise ratio, providing better reliability for current applications and higher data rates for future applications. These cables meet and exceed all the Standards like ANSI//EIA-568B, ISO/IEC11801: 2011, EN 50173 etc.

Cat.6 UTP Cable

Feature	Type	Value
Conductors	AWG	23
	Size (mm)	0.55
	Material	Solid Bare Copper
Insulators	Diameter(mm)	0.95±0.03mm
	Material	HDPE
Jacket	External O.D.	6.2 ± 0.4 mm
	Thickness (mm)	0.55+/-0.05
	Material	PVC / LSZH
Pulling Strength	Force	110N
Minimum Bend Radius		4 Times outer diameter
Operating Temperature	Celsius	-20^{0}C to +75^{0}C

Ordering Information

Part No. *	Description	Length	Colour
ANC6UPXX23-305MT	CAT.6 UTP Cable - 305 Meter	305 Meters	Grey*
ANC6UPXX23-305MT-LSZH	CAT.6 UTP Cable - 305 Meter - LSZH	305 Meters	Grey*

* Change XX to GY for Grey, BL for Blue, WH for White, RD for Red, BK for Black, GR for Green or YL for Yellow colour

Cat.6A UTP Cable

Feature	Type	Value
Conductors	AWG	23
	Size (mm)	0.570
	Material	Solid Bare Copper
Insulators	Diameter(mm)	1.03±0.03mm
	Material	HDPE
Jacket	External O.D.	6.2 ± 0.4 mm
	Thickness (mm)	0.65+/-0.05
	Material	PVC / LSZH
Pulling Strength	Force	110N
Minimum Bend Radius		4 Times outer diameter
Operating Temperature	Celsius	-20^{0}C to +75^{0}C

Ordering Information

Part No. *	Description	Length	Colour
ANC6AUPXX23-305MT	CAT.6A UTP Cable - 305 Meter	305 Meters	Grey*
ANC6AUPXX23-305MT-LSZH	CAT.6A UTP Cable - 305 Meter - LSZH	305 Meters	Grey*

* Change XX to GY for Grey, BL for Blue, WH for White, RD for Red, BK for Black, GR for Green or YL for Yellow colour

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Network Products

Cat.5e UTP Cable

Feature	Type	Value
Conductors	AWG	23
	Size (mm)	0.55
	Material	Solid Bare Copper
Insulators	Diameter(mm)	0.95±0.03mm
	Material	HDPE
Jacket	External O.D.	6.2 ± 0.4 mm
	Thickness (mm)	0.55+/-0.05
	Material	PVC / LSZH
Pulling Strength	Force	110N
Minimum Bend Radius		4 Times outer diameter
Operating Temperature	Celsius	-20^0C to $+75^0$C

Ordering Information

Part No. *	Description	Length	Colour
ANC5EUPXX23-305MT	CAT.5EUTP Cable-305 Meter	305 Meters	Grey *
ANC5EUPXX23-305MT-LSZH	CAT.5E UTP Cable-305 Meter - LSZH	305 Meters	Grey *

* Change XX to GY for Grey, BL for Blue, WH for White, RD for Red, BK for Black, GR for Green or YL for Yellow colour

Category 6, 6A & 5e

Shielded Twisted Pair Cable Roll

Avalon cables are the best twisted-pair cables in the market for transmitting data over Local Area Networks(LAN). They support a higher signal -to-noise ratio,providing better reliability for current applications and higher data rates for future applications. An Aluminium tape is used to shield all the four pairs of cables giving screened protection against external interference such as EMI and improves external crosstalk.They meet and exceed standards like ANSI/TIA/EIA-568-C.2, ISO/IEC11801: 2011(Ed. 2.2), EN 50173-1:2011, IEC61935-2:2010(Ed.3.0) etc.

Cat.6 STP Cable

Feature	Type	Value
Conductors	AWG	23
	Size (mm)	0.565
	Material	Bare Copper
Insulators	Diameter(mm)	1.08 + 0.05mm
	Material	HDPE
Jacket	External O.D.	7.4+/-0.4 mm
	Thickness (mm)	0.60+/-0.05
	Material	PVC / LSZH
Shield	Material	Aluminium Foil
Pulling Strength	Force	110N
Minimum Bend Radius		4 Times outer diameter
Operating Temperature	Celsius	-20^0C to $+75^0$C

Ordering Information

Part No. *	Description	Length	Colour
ANC6SPXX23-305MT	CAT.6 STP Cable - 305 Meter	305 Meters	Grey *
ANC6SPXX23-305MT-LSZH	CAT.6 STP Cable - 305 Meter - LSZH	305 Meters	Grey *

* Change XX to GY for Grey, BL for Blue, WH for White, RD for Red, BK for Black, GR for Green or YL for Yellow colour

Cat.6A STP Cable

Feature	Type	Value
Conductors	AWG	23
	Size(mm)	0.50
	Material	Solid Bare Copper
Insulators	Diameter(mm)	1.02 + 0.02mm
	Material	HDPE
Jacket	External O.D.	5.0+/-0.3
	Thickness (mm)	0.50+/-0.05
	Material	PVC / LSZH
Sheath	Material	Aluminium Tape
Pulling Strength		110N
Minimum Bend Radius		4 Times outer diameter
Operating Temperature	Celsius	-20^0 C to $+75^0$C

Ordering Information

Part No. *	Description	Length	Colour
ANC6ASPXX23-305MT	CAT.6A STP Cable-305 Meter	305 Meters	Grey *
ANC6ASPXX23-305MT-LSZH	CAT.6A STP Cable - 305 Meter - LSZH	305 Meters	Grey *

* Change XX to GY for Grey, BL for Blue, WH for White, RD for Red, BK for Black, GR for Green or YL for Yellow colour

Cat.5e STP Cable

Feature	Type	Value
Conductors	AWG	23
	Size(mm)	0.50
	Material	Solid Bare Copper
Insulators	Diameter(mm)	1.00 + 0.03mm
	Material	HDPE
	External O.D.	6.2 +-0.4 mm
	Thickness (mm)	0.55+/-0.05
	Material	PVC / LSZH
Sheath	Material	Aluminium Tape
Pulling Strength		110N
Minimum Bend Radius		4 Times outer diameter
Operating Temperature	Celsius	-20^0 C to $+75^0$C
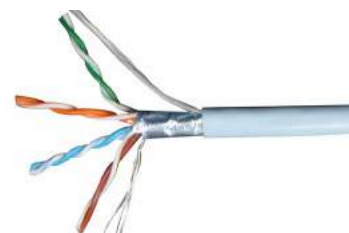
Ordering Information

Part No. *	Description	Length	Colour
ANC5ESPXX23-305MT	CAT.5E STP Cable-305 Meter	305 Meters	Grey *
ANC5ESPXX23-305MT-LSZH	CAT.5E STP Cable-305 Meter-LSZH	305 Meters	Grey *

* Change XX to GY for Grey, BL for Blue, WH for White, RD for Red, BK for Black, GR for Green or YL for Yellow colour

AVALON
Network Products

Category 6, 6A & 5e

Unshielded Twisted Pair Patch Cords

Avalon unshielded patch cords have been designed for high speed data transmission over Local Area Networks (LAN) upto ATM 622 Mbps and for Gigabit Ethernet upto 1000 Mbps applications. These patch cords exceed performance requirements specified by the ANSI/TIA/EIA-568B.2 / TIA/EIA-568C.2, EN50173 - 1:2011, ISO/IEC11801:2011(Ed. 2.2) and IEC 60603-7-4 standards etc.

Cat.6 UTP Patch Cords

Feature	Value
Insulation Material	HDPE
Conductor and Metal	7 Bare Copper Wires, 24 AWG
No of Pairs	4
Jacket	PVC/LSZH , UL94V-0
Plugs	RJ-45 8P8C
Contact	Gold plated : 30µ
Contact blade	Phosphor Bronze
Molded Boot	Fire Retardant PVC/LSZH
Fire Resistant	CMG Specifications

Ordering Information

Part No. *	Description
ANC6UPXX-YYMT	Avalon CAT.6 UTP Patch Cord
ANC6UPXX -YYMT- LSZH	Avalon CAT.6 UTP Patch Cord - LSZH

* XX - Colour -   Grey (GL), Blue (BL), White (WH), Red (RD), Black (BK), Green (GR) or Yellow (YL) color.
   YY - Length -   0.5m, 1.0m, 2.0m, 3.0m, 5.0m,…..10m...15m...30 meters etc

Cat.6A UTP Patch Cords

Feature	Value
Insulation Material	HDPE
Conductor and Metal	7 Bare Copper Wires, 26 AWG
No of Pairs	4
Jacket	PVC/LSZH , UL94V-0
Plugs	RJ-45 8P8C
Contact	Gold plated : 30µ
Contact blade	Phosphor Bronze
Molded Boot	Fire Retardant PVC/LSZH
Fire Resistant	CMG Specifications

Ordering Information

Part No. *	Description
ANC6AUPXX-YYMT	Avalon CAT.6A UTP Patch Cord
ANC6AUPXX-YYMT- LSZH	Avalon CAT.6A UTP Patch Cord - LSZH

* XX - Colour -- Grey (GL), Blue (BL), White (WH), Red (RD), Black (BK), Green (GR) or Yellow (YL) color.
   YY -Length -   0.5m, 1.0m, 2.0m, 3.0m, 5.0m,…..10m...15m...30 meters etc.

Structured Cabling

Cat.5e UTP Patch Cords

Feature	Value
Insulation Material	HDPE
Conductor and Metal	7 Bare Copper Wires, 24 AWG
No of Pairs	4
Jacket	PVC/LSZH , UL94V-0
Plugs	RJ-45 8P8C
Contact	Gold plated : 30µ
Contact blade	Phosphor Bronze
Molded Boot	Fire Retardant PVC/LSZH
Fire Resistant	CMG Specifications

Ordering Information

Part No. *	Description
ANC5EUPXX-YYMT	Avalon CAT. 5E UTP Patch C ord
ANC5EUPXX-YYMT-LSZH	Avalon CAT. 5E UTP Patch Cord , LSZH

* XX - Colour - Grey (GL), Blue (BL), White (WH), Red (RD), Black (BK), Green (GR) or Yellow (YL) color.
   YY - Length - 0.5m, 1.0m, 2.0m, 3.0m, 5.0m,…..10m...15m...30 meters etc.

Category 6, 6A & 5e

Shielded Twisted Pair Patch Cords

Avalon shielded patch cords have been designed for for high speed data transmission over local area networks (LAN) upto ATM 622 Mbps and for Gigabit Ethernet upto 1000 Mbps applications. These cables exceed performance requirements specified by the ANSI/TIA/EIA -568B.2 /TIA/EIA-568C.2, EN 50173-1:2011,ISO/IEC11801:2011(Ed. 2.2) and IEC 60603-7-4 standards etc. An Aluminium tape is used to shield all the four pairs of cables giving screened protection against external interference such as EMI and improves external crosstalk

Cat.6 STP Patch Cords

Feature	Value
Insulation Material	HDPE
Conductor and Metal	7 Bare Copper Wires, 24 AWG
No of Pairs	4
Jacket	PVC/LSZH , UL94V-0
Plugs	RJ-45 8P8C
Contact	Gold plated : 30µ
Contact blade	Phosphor Bronze
Molded Boot	Fire Retardant PVC/LSZH
Fire Resistant	CMG Specifications
Cable Shield	Aluminum Mylar for individual pair and overall braided shield

Ordering Information

Part No. *	Description
ANC6SPXX-YYMT	Avalon CAT.6 STP Patch Cord
ANC6SPXX-YYMT-LSZH	Avalon CAT.6 STP Patch Cord, LSZH

* XX - Colour - Grey (GL), Blue (BL), White (WH), Red (RD), Black (BK), Green (GR) or Yellow (YL) color.
    YY - Length -   0.5m, 1.0m, 2.0m, 3.0m, 5.0m,…..10m...15m...30 meters etc.

AVALON
Network Products

Cat.6A STP Patch Cords

Feature	Value
Insulation Material	HDPE
Conductor and Metal	7 Bare Copper Wires, 26 AWG
No of Pairs	4
Jacket	PVC/LSZH , UL94V-0
Plugs	RJ-45 8P8C
Contact	Gold plated : 30μ
Contact blade	Phosphor Bronze
Molded Boot	Fire Retardant PVC/LSZH
Cable Shield	Aluminum Mylar for individual pair and overall braided shield

Ordering Information

Part No. *	Description
ANC6ASPXX-YYMT	Avalon CAT.6A STP Patch Cord
ANC6ASPXX-YYMT-LSZH	Avalon CAT.6A STP Patch Cord, LSZH

* XX - Colour - Grey (GL), Blue (BL), White (WH), Red (RD), Black (BK), Green (GR) or Yellow (YL) color.

   YY - Length - 0.5m, 1.0m, 2.0m, 3.0m, 5.0m,…..10m....15m....30 meters etc

Cat.5e STP Patch Cords

Feature	Value
Insulation Material	HDPE
Conductor and Metal	7 Bare Copper Wires, 24 AWG
No of Pairs	4
Jacket	PVC/LSZH , UL94V-0
Plugs	RJ-45 8P8C
Contact	Gold plated : 30μ
Contact blade	Phosphor Bronze
Molded Boot	Fire Retardant PVC/LSZH
Cable Shield	Aluminum Mylar for individual pair and overall braided shield

Ordering Information

Part No. *	Description
ANC5ESPXX-YYMT	Avalon CAT.5E STP Patch Cord
ANC5ESPXX-YYMT-LSZH	Avalon CAT.5E STP Patch Cord , LSZH

* XX - Colour - Grey (GL), Blue (BL), White (WH), Red (RD), Black (BK), Green (GR) or Yellow (YL) color.

   YY - Length - 0.5m, 1.0m, 2.0m, 3.0m, 5.0m,…..10m...15m...30 meters etc.

Structured Cabling

Category 6, 6A & 5e

Unshielded Patch Panels

Avalon 24 and 48 Port Patch Panels are the industry's high-quality Panels that support the latest technologies and diverse applications. These panels combine strength and durability with a sleek look, making them ideal for all kinds of environments. These comply with ANSI/TIA-568B-.2, ISO/IEC 11801 and EN 50173-1 Class E specifications. The complete module complies with EU ROHS directive. The construction is in standard 19" size, suits for all 19" rack installations and they accept Cat.6, Cat.6A or Cat.5E Keystone Jacks. Numerical markings on the front side make it easier to use.

Specifications

Features	Values
Size	19" 1U or 2U
IDC Accept	Accepts AWG 22-26 AWG
Housing	ABS 94V-0
IDC Body	PC UL94-V0
Metal Sheet	Corrosion Resistant Steel Sheet
Plastic	Fire Self Extinguish High Impact Plastic
IDC Contact	Phosphor Bronze with 50μ gold plating on contact area.
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Plug Retention Force	89N
Specifically Design	With Two PCB Panel & Tool less
Insertion life	≥1000 mating cycles
Plug /Jack Contact Force	100g min
Humidity	5 to 93%(non condensing)
Operation Temperature	-40^0 to 70^0C
Thickness of cold-rolled steel	1.5mm

Ordering Information

| Part No.	Description
ANC6UPP-24	CAT.6 Unshielded 24 Port Patch Panels,1U
ANC6UPP-48	CAT.6 Unshielded 48 Port Patch Panels, 2U

Part No.	Description
ANC6AUPP-24	CAT.6A Unshielded 24 Port Patch Panels, 1U
ANC6AUPP-48	CAT.6A Unshielded 48 Port Patch Panels, 2U

Part No.	Description
ANC5EUPP-24	CAT.5E Unshielded 24 Port Patch Panels,1U
ANC5EUPP-48	CAT.5E Unshielded 48 Port Patch Panels, 2U

AVALON
Network Products

Category 6, 6A & 5e
Shielded Patch Panels
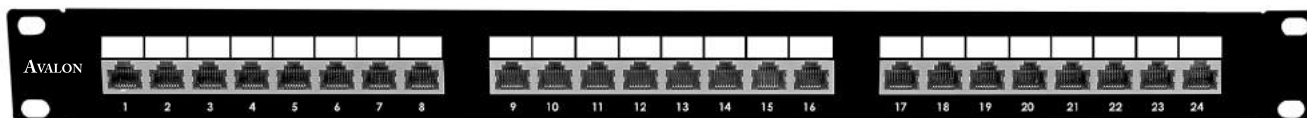
Avalon 24 and 48 port shielded keystone patch panels comes with a design which has redefined engineering elegance. It has complete metal shielded connector structure that includes the front panel, the metal case and the cable management plate. The cable management plate comes with pre-fitted B-Clip that helps in routing cables and provides a perfect strain relief. The front panel has white colour printed for identification of ports. The keystones snap fit on the metal case and can be removed easily whenever required. These comply with ANSI/TIA-568B-.2, ISO/IEC 11801 and EN 50173-1 Class E specifications. The complete module complies with EU ROHS directive. The construction is in standard 19" size which suits all 19" rack installations and these accept Cat.6, Cat.6A or Cat.5E shielded keystone jacks. Numerical marking on the front side make them very easy to use.

Specifications

Feature	Description
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Contact Material	Phosphor Bronze – With Gold-plated 3µ-50µ
Contact Thickness	0.5 mm
IDC Contact Plating	Tin Plating
IDC Housing	PC +Glass Fiber
IDC Compatibility	22 to 26 AWG
Jack Contact Material	Phosphor Bronze - With Gold-plated 3µ-50µ
Shield	50µ Nickel plated over phosphor bronze
Printed Circuit Board	FR4 94V-0
Operation Temperature	-40^0 to 70^{0}C
Thickness of cold-rolled steel	1.5mm

Ordering Information

| Part No.	Description
ANC6SPP-24	CAT.6 Shielded 24 Port Patch Panel, 1U
ANC6SPP-48	CAT.6 Shielded 48 Port Patch Panel, 2U

Part No.	Description
ANC6ASPP-24	CAT.6A Shielded 24 Port Patch Panel, 1U
ANC6ASPP-48	CAT.6A Shielded 48 Port Patch Panel, 2U

Part No.	Description
ANC5ESPP-24	CAT.5E Shielded 24 Port Patch Panel, 1U
ANC5ESPP-48	CAT.5E Shielded 48 Port Patch Panel, 2U

Category 6, 6A & 5e

Unloaded/Blank Patch Panel
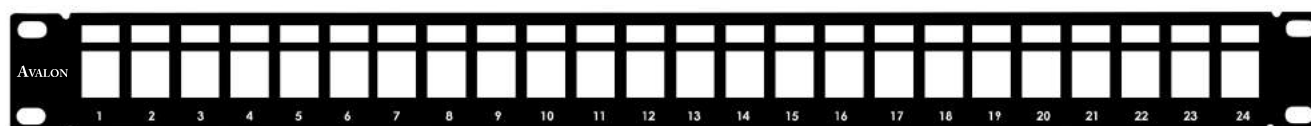
UTP Blank Patch Panel

STP Blank Patch Panel

Specifications

Feature	Description
Size	19" 1U or 2U
IDC Accept	Accepts AWG 22-26 AWG
RJ45	Housing Nylon 8P8C 50µ gold plated
IDC Design	Suitable for Krone and 110 Punch Tools
IDC Body	UL94-V0
Metal Sheet	Corrosion Resistant Steel Sheet
Plastic	Fire self extinguish high impact plastic
Operation Temperature	-40^0C to 70^0C

Ordering Information

Part No.	Description
ANC6UPP-X-BL	Cat6 UTP Blank Patch Panel
ANC6SPP-X-BL	Cat6 STP Blank Patch Panel
ANC6AUPP-X-BL	Cat6A UTP Blank Patch Panel
ANC6ASPP-X-BL	Cat6A STP Blank Patch Panel
ANC5EUPP-X-BL	Cat5E UTP Blank Patch Panel
ANC5ESPP-X-BL	Cat5E STP Blank Patch Panel

* Replace X with 12, 24 or 48 Port.

AVALON
Network Products

UTP Keystone Jacks - Category 6, 6A & 5e

Avalon 180° and 90° Jacks are designed and manufactured to meet the current and future requirements of high bandwidth and forms an essential element of the structured cabling system. The jacks snap easily in and out of wall outlets, surface mount boxes and patch panels. These comply with TIA/EIA-568-C.2 specifications.

Cat.6 UTP Keystone Jacks

Feature	Value
Housing	High-impact Flame Retardant Polycarbonate, UL94V-0
Spring Wire	Phosphor Bronze With Gold plated 3μ - 50μ
IDC Contact	Phosphor Bronze
Insertion life	≥1000 mating cycles
Operating Temperature Range	-60^0C to 80^0C
IDC Accept	22-26 AWG
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Plug Retention Force	89N
RJ45	8P8C 50μ Punch Down Jacks

Ordering Information

Part No. *	Value
ANC6UPKJ-180	CAT.6 UTP 180° Keystone Jack
ANC6UPKJ-90	Cat.6 UTP 90° Keystone Jack

* Standard Product comes in White Color. For keystone Jacks of other colors add RD (Red), Green(GR), YL(Yellow), Blue(BL), Grey(GY), Black(BK) after the Part Number.

Cat.6A UTP Keystone Jacks

Feature	Value
Housing	High-impact Flame Retardant Polycarbonate, UL94V-0
Spring Wire	Phosphor Bronze With Gold plated 3μ - 50μ
IDC Contact	Phosphor Bronze
Insertion life	≥1000 mating cycles
Operating Temperature Range	-60^0C to 80^0C
IDC Accept	22-26 AWG
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Plug Retention Force	89N
RJ45	8P8C 50μ Punch Down Jacks

Ordering Information

Part No. *	Value
ANC6AUPKJ-180	CAT.6A UTP 180˚ Keystone Jack
ANC6AUPKJ-90	Cat.6A UTP 90˚ Keystone Jack

* Standard Product comes in White Color. For keystone Jacks of other colors add RD (Red), Green(GR),YL(Yellow), Blue(BL), Grey(GY), Black(BK) after the Part Number.

Cat 5e UTP Keystone Jacks

Feature	Value
Housing	High-impact Flame Retardant Polycarbonate,UL94V-0
Spring Wire	Phosphor Bronze With Gold plated 3μ 50μ
IDC Contact	Phosphor Bronze
Insertion life	≥1000 mating cycles
Operating Temperature Range	-60^{0}C to 80^{0}C
IDC Accept	22-26 AWG
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Plug Retention Force	89N
RJ45	8P8C 50μ Punch Down Jacks
Jack Shield	Zinc Die Casting

Ordering Information

Part No. *	Value
ANC5EUPKJ-180	CAT.5E UTP 180˚ Keystone Jack
ANC5EUPKJ-90	CAT.5E UTP 90˚ Keystone Jack

* Standard Product comes in White Color. For keystone Jacks of other colors add RD (Red), Green (GR) , YL (Yellow), Blue (BL), Grey (GY), Black (BK) after the Part Number

STP Keystone Jacks - Category 6, 6A & 5e

Avalon 180° and 90° Jacks are designed and manufactured to meet the current and future requirements of high band-width and forms an essential element of the structured cabling system. The Jacks snap easily in and out of wall outlets, surface mount boxes and patch panels. These comply with TIA/EIA-568-C.2 specifications.

Cat.6 STP Keystone Jacks

Feature	Value
Housing	High-impact Flame Retardant Polycarbonate, UL94V-0
Spring Wire	Phosphor Bronze With Gold plated 3μ 50μ
IDC Contact	Phosphor Bronze
Insertion life	≥1000 mating cycles
Operating Temperature Range	-60^{0}C to 80^{0}C
IDC Accept	22-26 AWG
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Plug Retention Force	89N
RJ45	8P8C 50μ Punch Down Jacks
Jack Shield	Zinc Die Casting

Ordering Information

Part No. *	Value
ANC6SPKJ-180	CAT.6 STP 180˚ Keystone Jack
ANC6SPKJ-90	Cat.6 STP 90˚ Keystone Jack

* Standard Product comes in White Color. For keystone Jacks of other colors add RD (Red), Green (GR)   , YL (Yellow), Blue (BL), Grey (GY), Black (BK) after the Part Number.

Cat.6A STP Keystone Jacks

Feature	Value
Housing	High-impact Flame Retardant Polycarbonate,UL94V-0
Spring Wire	Phosphor Bronze With Gold plated 3μ 50μ
IDC Contact	Phosphor Bronze
Insertion life	≥1000 mating cycles
Operating Temperature Range	-60^0C to 80^0C
IDC Accept	22-26 AWG
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Plug Retention Force	89N
RJ45	8P8C 50μ Punch Down Jacks
Jack Shield	Zinc Die Casting

Ordering Information

Part No. *	Value
ANC6ASPKJ-180	CAT.6A STP 180˚ Keystone Jack
ANC6ASPKJ-90	Cat.6A STP 90˚ Keystone Jack

* Standard Product comes in White Color. For keystone Jacks of other colors add RD (Red), Green(GR),YL(Yellow), Blue(BL), Grey(GY), Black(BK) after the Part Number.

Cat.5e STP Keystone Jacks

Feature	Value
Housing	High-impact Flame Retardant Polycarbonate, UL94V-0
Spring Wire	Phosphor Bronze With Gold plated 3μ 50μ
IDC Contact	Phosphor Bronze
Insertion life	≥1000 mating cycles
Operating Temperature Range	-60^0C to 80^0C
IDC Accept	22-26 AWG
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Plug Retention Force	89N
RJ45	8P8C 50μ Punch Down Jacks
Jack Shield	Zinc Die Casting

Ordering Information

Part No. *	Value
ANC5ESPKJ -180	CAT.5e STP 180˚ Keystone Jack
ANC5ESPKJ -90	Cat.5e STP 90˚ Keystone Jack

* Standard Product comes in White Color. For keystone Jacks of other colors add RD (Red), Green(GR), YL (Yellow), Blue(BL), Grey(GY), Black(BK) after the Part Number.

Structured Cabling

Voice Solutions

Multi-Core Cables

Avalon Cat.3 UTP 2 Pair, 10 Pair, 25 Pair, 50 Pair and 100 Pairs Telephone Cables are made for riser telephone cabling applications as per TIA/EIA-568-C.2, ISO/IEC 11801:2011 edition 2.2 and EN 50173:201 standards. These are constructed with 24 gauge solid bare copper conductors placed inside a PVC jacket. The color coding is very dark and easily distinguished for easy punch-down, even in low light conditions.

Specifications

Feature	Description
Insulation	Semi - rigid PVC
Jacket	Flame Retardant Chrome PVC with sequential footage markings
Ripcord	Applied longitudinally under jacket
Operating Temperatures	-10^0 C to $+60^0$ C
Voltage Rating	300 volts
Conductors	Solid bare copper
Conductor Diameter	24 AWG
Insulated Conductor Diameter	0.90mm nominal
Insulated Cable Diameter	3.5mm-20.40mm based on number or pairs
Jacket Thickness	0.5mm to 1.60mm based on number of pairs
Outer Jacket for Outdoor Cable Only	PE

Cat. 3 25 Pair

Cat. 3 50 Pair

Cat. 3 100 Pair

Ordering Information

Part No. *	Description
ANC3UP-X	Cat.3 Indoor Voice Cable
ANC3UP-X-O	Cat.3 Outdoor Voice Cable

* X – No: of Pairs: 02,10, 25, 50, 100 Pairs

Voice Patch Panel

Avalon 25 Port and 50 Port Cat.3 Voice Patch Panels are high-quality Panels that support terminations of voice backbone cabling (vertical) and are designed to utilize minimum rack space by supporting 25 Ports (1U) and 50 Ports (2U) of rack space. These panels support both 1 and 2 pair connectivity for analog/digital telephone services via PABX or for the distribution of direct lines.

Specifications

Feature	Description
Size	19" 1U or 2U
IDC Accept	Accepts AWG 22-26 AWG
Metal Sheet	Corrosion Resistant Steel Sheet
IDC Contact	Phosphor Bronze with 50μ gold plating on contact area.
Wire Scheme	T568A/B
Insulation Resistance	500Ω
Current Rating	1.5Amps
DC Resistance	0.1 ohm MAX
Voltage	150 VAC MAX
Plug Retention Force	89N
Specifically Design	With Two PCB Panel & Tooless
Insertion life	≥1000 mating cycles
Plug /Jack Contact Force	100g min
Humidity	5 to 93% (non condensing)
Operation Temperature	-40^0 to 70^0C
Thickness of cold-rolled steel	1.5mm

Ordering Information

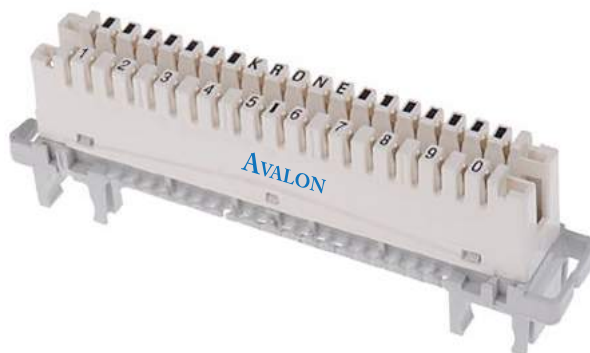| Part No.	Description
ANC3VPP-25	25 Port Voice Patch Panel
ANC3VPP-50	50 Port Voice Patch Panel

LSA Module

Avalon LSA profile connection/disconnection modules are designed for telecommunication and data communication networks especially to be used in MDF , IDF , cross connection cabinets and DPs. These modules decrease the risk of poor termination and increase the wiring productivity. The disconnection modules have two piece contacts normally closed which incorporate a disconnection facility and give the advantage of individual pair disconnection and four wire test access. The connection modules have a one piece contact providing a continuous link between permanent wiring and jumper wiring, giving provision for monitoring access and over voltage.

Features

- Gas tight connection with self-cleaning contact
- Two wires per contact
- One push wire insertion
- No wire-stripping , screw and solder free
- Only one inexpensive tool required

Specifications

- Material-Plastic Parts ABS or PBT
- Flammability -UL94V-0
- Dimension - 124 mm x 21 mm x 30 mm
- IDC Type - Krone or 110
- IDC contact blade - phosphor bronze or tin brass with silver plating (0.5 µm)
- IDC contact positioning - 45° angle across wire axis
- Internal Dia. off connectable solid wire - 0.35 - 0.9 mm (26-20 AWG)
- Outer Dia. of connectable solid wire - 0.68 -1.5 mm with PE, PVC, LSZH Insulation
- Outer Dia. of connectable stranded wire - (7 Tin Coated Strands) up to 2.1 mm (28-20 AWG)
- Wire insulation diameter - 0.7 - 1.6 mm (PE & PVC Ins)
- No of equal wire per contact - Max. 2

Applications

- Suitable for use in all communication networks (POTS, DSL and IP networks)
- VDSL2-capable
- Used in outdoor enclosures with restricted space for cable termination

Ordering Information

Part No.	Description
ANKC-10	10 Pair Connection Module
ANKDC-10	10 Pair Disconnection Module

Distribution Box

Avalon distribution boxes are used in various voice and telecommunication applications. These are suitable for indoor and outdoor purposes.

Specifications

- Material for Indoor: ABS material
- Material for Outdoor : IP45 water proof design, UV cured

Ordering Information

Part No. *	Description
ANX-DB-I	Indoor Distribution Box
ANX-DB-O	Outdoor Distribution Box

* X – No: of Pairs –10,30, 50, 100, 400…800 or 1200 Pairs etc.

Accessories

Faceplate

Avalon faceplates are manufactured using fire retardant materials and are known for safety and durability. They are available in 1 and 2 ports for different applications and usages. Each of them delivers a high speed signal for all high speed desktop applications. They accept Cat3, Cat5e and Cat 6 UTP keystones to fit with different performance requirements. They also perfectly blend into the decor of the home or office and protect the network connections.

Specifications

Feature	Value
Type	UK Style with shutter against dust and labeling plate.
I.D. Plate	Polycarbonate, UL94V-2 transparent color.
Face plate	ABS, UL94V-0, with white color.
Dust Cover	ABS, UL94V-0, with white color
Screw	M3.5XL25.0mm
Directive	RoHS certified

Ordering Information

Part Number	Description	Dimensions
AN-WSFP-1P	Flat Shutter Single Port RJ45 Faceplate, UK	86X86mm
AN-WSFP-2P	Flat Shutter Dual Port RJ45 Faceplate, UK	86X86mm
AN-BVFP-86	UK Euro Angled Beveled Frame - Smooth Surface	86X86mm
AN-BVFP-50	UK Euro Single Port RJ45 Beveled Faceplate	50X25mm
AN-BVFP-50-2P	UK Euro Dual Port RJ45 Beveled Faceplate	50X25mm
AN-BVA-25	Angular Keystone Adapter	25X50mm
AN-SA-25	Straight Keystone Adapter	25X50mm
AN-BA-25	Blank Adapter	25X50mm
AN-BA-12	Blank Adapter	12X50mm

Back Box

Avalon back boxes are manufactured using fire retardant materials and are known for safety and durability. Each of them delivers a high speed signal for all high speed desktop applications. They also perfectly blend into the decor of the home or office and protect the network connections.

Specifications

Feature	Value
Type	For UK Style Faceplate
Box	ABS, UL94-HB, with white color
Screw Nut	M3.5xL7.0mm
Screw	M3.5X25.0x7.0 mm
Screw	M3.5X19.0X7.5mm
Directive	RoHS certified

Ordering Information

Part No.	Description	Dimensions
AN86-BB	Back Box	86X86mm

AVALON
Network Products

Plugs covers (Boots)

Avalon Plug Covers help stop damage from dirt and debris for open RJ45 ports and unused plugs. These RJ45 covers protect your valuable ports and cables. Made from flexible PVC, these covers attach easily and stay in place with a snug friction fit. Jack covers feature a low profile knob making for easy removal when the port in needed again. Plug covers also protect the delicate locking tab on modular plugs. Packaged in bags of 100 pieces and shipped from a vast stock for large projects.

Specifications

Feature	Value
Fit for	RJ45 Connectors
Color	Yellow, Black, Blue,Grey,White Red etc
Material	Plastic
Package Content	100 Pcs

Ordering Information

Part No. *	Description
ANCBXX	Avalon Cable Boots

 * XX denotes Color, Change XX for RD (Red), YL (Yellow), BL (Blue), BK (Black), GR(Green), GY (Grey)

RJ45 Connectors

Avalon RJ45 Connectors are designed for today's high performance networks. A superior two-prong contact design works for both solid and stranded conductors. An integrated strain relief boot holds the cable in the proper position while crimping and provides protection to the cable connection after installation.

Specifications

Feature	Value
Housing	Polycarbonate, 94V - 2, transparent color
Contact terminal	Phosphor bronze 30 micro-inch gold plating, over 50 micro inch Nickel plated on contact area
Operating temperature	-40˚C to 80˚C
Cable to plug tensile strength	7.7 Kg
Terminates	24-26 AWG stranded wires
Wiring Scheme	T568A/T568B

Ordering Information

Part No	Description	Quantity per bag
ANC6URJ45	Cat.6 Unshielded Modular Connectors	100
ANC6SRJ45	Cat.6 Shielded Modular Connectors	100
ANC6AURJ45	Cat.6A Unshielded Modular Connectors	100
ANC6ASRJ45	Cat.6A Shielded Modular Connectors	100
ANC5EURJ45	Cat.5E Unshielded Modular Connectors	100
ANC5ESRJ45	Cat.5E Shielded Modular Connectors	100

FIBER OPTIC SOLUTIONS

With over 20 years experience and know-how on communicating products design & development. With team approach and perfection, definitely we will be your first choice and reliable selection.

ISO 9001
BUREAU VERITAS
Certification

Fiber Optic Solutions

With over 15 years of experience and know-how in designing and developing fiber optic products, Avalon has built WAN and LAN fiber systems that are very competitive in cost

Our fiber optic solutions are made by the most common substance silicon dioxide in complete core diameter i.e. 9µm for singlemode, 62.5µm for OM1 and 50µm for OM2/OM3, which allow light signal transmission that support long distances and high speed data network and telecommunication

Solutions and Components

Avalon fiber solutions include a full range of fiber optic devices, cables, accessories like pigtails, patch cords, patch panels, adapters, connectors and different types of terminal boxes

Avalon's complete range of these fiber components come with low attenuation loss control

Our Quality Guarantee

Avalon offers complete and high quality fiber cabling solutions which have been manufactured with a specific definition and a streamlined qualification procedure

Our fiber products and solutions have shown convincible field test results with ease in installation, termination, and reducing the overall project time
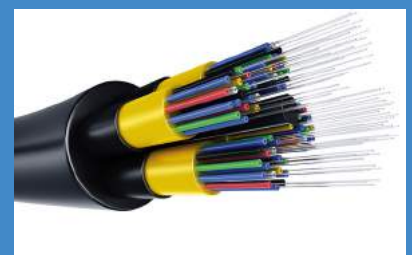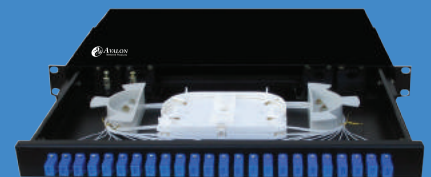
AVALON
Fiber Optic Solutions

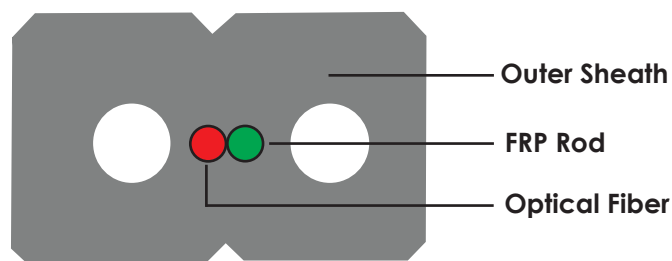Fiber Cabling

Fiber Optic Cables

2 Core Flexi Drop Cable – FTTH Indoor / Outdoor

FTTH - Indoor Cable

Avalon 2-fiber singlemode all dielectric Fiber to the Home (FTTH) drop cable is color coded in red and green optical fibers. These two fibers are embedded in sheath along with two ARP/FRP rods. The outer jacket is made of LSZH/LSOH material and is applicable for indoor application. It is designed for internal FTTH applications horizontal, riser and clipping to surfaces including skirting boards.

Features

- ITU-T REC.G657A
- EC Specifications 60793-2-50 Type B1.3
- TIA/EIA 492-CAAB
- Telecordia's GR-20-CORE
- ISO/IEC 11802 0S-1

Ftth Indoor Cable

Outer Sheath
FRP Rod
Optical Fiber

Ordering Information

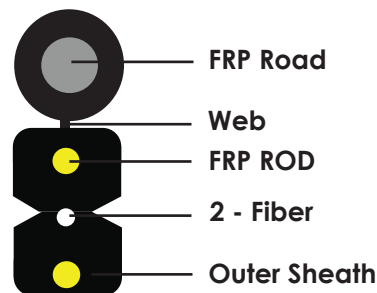| Part No. *	Description
ANFTTH-SM-2-IN	Avalon Fiber-to-the-Home (FTTH), 2 Core, Indoor Optical Fiber Cable - Singlemode

FTTH - Outdoor Cable

Avalon 2-fiber singlemode all dielectric Fiber to the Home (FTTH) drop cable is color coded in blue and orange optical fibers. The outdoor FTTH flat cable's outer sheath is flame retardant and is black PE with supporting 1mm FRP rod. The Fibers used in these cables are bending insensitive making it possible for applications requiring multiple bends. These cables can be buried directly considering its resistance against crush and impact conditions.

Compliance

- ITU-T REC. G657A
- EC Specifications 60793 -2-50 Type B1.3
- ISO/IEC 11802 OS-1
- TIA/EIA 492-CAAB
- Telecordia's GR-20-CORE

Features

- As per ITU-T REC. G.657A
- Outdoor Grade
- LSZH black jacketing material
- Upcoated wire 2mm FRP Suspension Support
- FRP Rod embedded in the sheath
- Notched construction for easy stripping
- Flame Retardant Black Polyethylene cable jacket
- Core Diameter 9µm

Ftth Outdoor Cable

FRP Road
Web
FRP ROD
2 - Fiber
Outer Sheath

Ordering Information

Part No. *	Description
ANFTTH-SM-2-OUT	Avalon Fiber-to-the-Home (FTTH) , 2 Core, Outdoor Optical Fiber Cable - Singlemode

AVALON
Network Products

Singlemode Armoured/Direct Burial Fiber Cable

OUTER SHEATH (HDPE / LSZH)
CORRUGATED STEEL TAPE ARMOUR
INNER SHEATH (PE)
POLYESTER TAPE / POL YAL OPTIONAL
FLOODING JELLY
LOOSE TUBE WITH OPTICAL FIBER
STRENGTH MEMBER FRP

Features

- ITU-T G.652 D
- EC Specifications 60793-2-50 Type B1.3
- TIA/EIA 492-CAAB
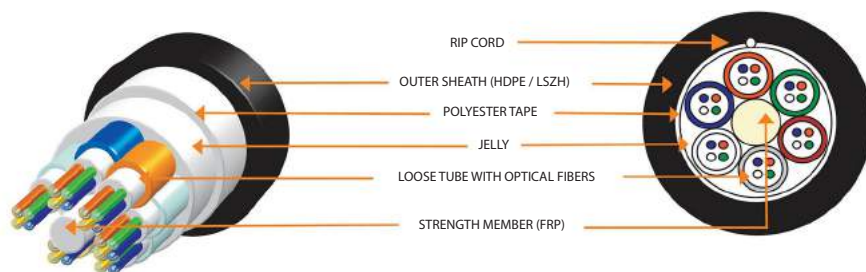- Telecordia's GR-20-CORE
- ISO/IEC 11802 0S-1

Applications

✓ 1000BASE-LX ✓ 10GBASE-LX4 ✓ 10GBASE-LR/LW ✓ 10GBASE-ER/EW ✓ 531 Mbps Fiber Channel
✓ 155 Mbps ATM ✓ 622 Mbps ATM ✓ FDDI ✓ 1062 Mbps Fiber Channel

OS1 Ordering Information

Part No. *	Description
ANFC-SM-X-AR	Avalon Fiber Armoured Cable - Single Mode

* X – No: of Cores – 02, 04, 06, 08, 12, 24, 48, 96 Cores etc.

Singlemode Un-Armoured Fiber Cable

RIP CORD
OUTER SHEATH (HDPE / LSZH)
POLYESTER TAPE
JELLY
LOOSE TUBE WITH OPTICAL FIBERS
STRENGTH MEMBER (FRP)

Features

- ITU-T G.652 D
- EC Specifications 60793-2-50 Type B1.3
- TIA/EIA 492-CAAB
- Telecordia's GR-20-CORE
- ISO/IEC 11802 0S-1

Applications

✓ 100BASE-FX ✓ 1000BASE-SX ✓ 1000BASE-LX ✓ 155 Mbps ATM ✓ 622 Mbps ATM ✓ FDDI
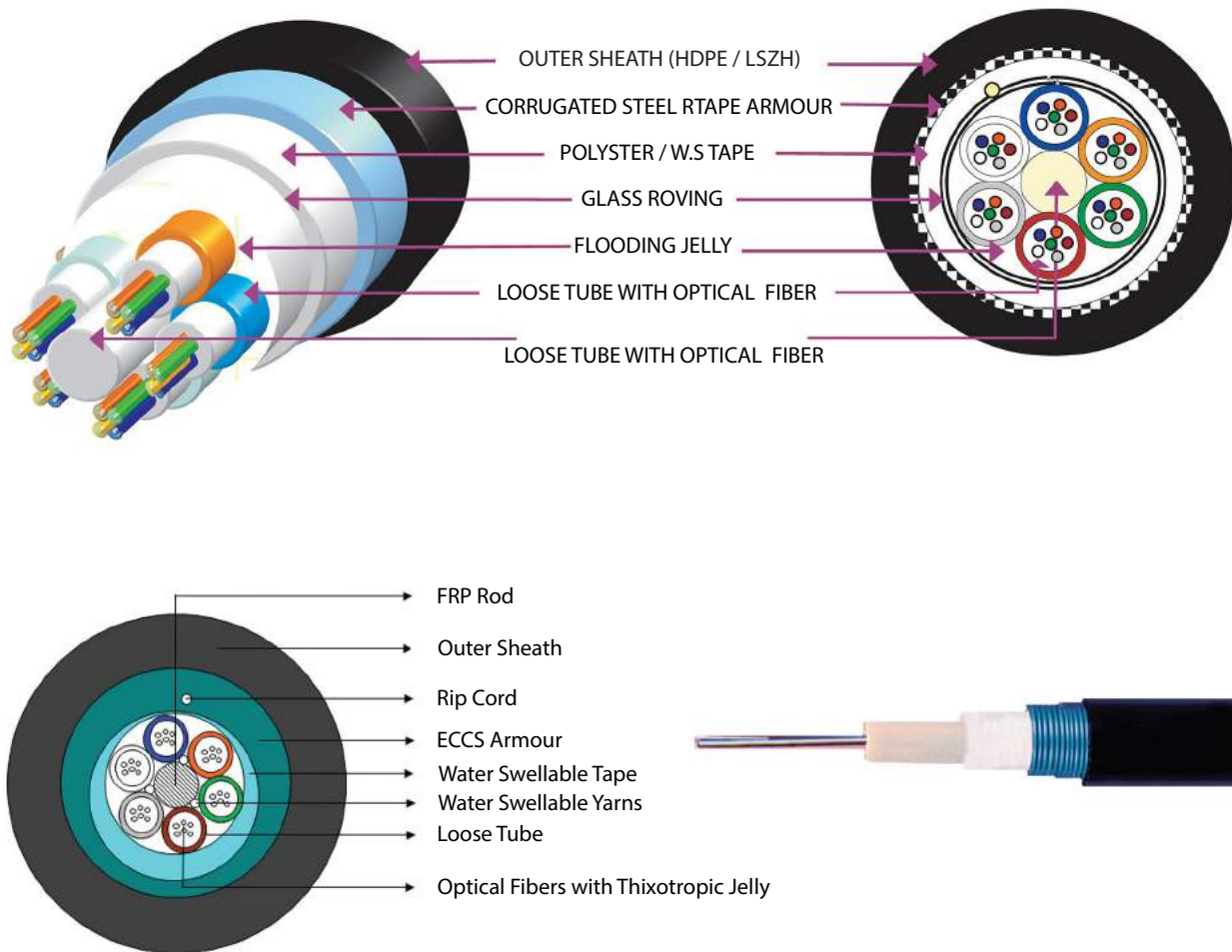✓ 1062 Mbps Fiber Channel

OS1 Ordering Information

Part No.*	Description
ANFC-SM-X-LT	Avalon Fiber Optic Un-Armoured - Single Mode

* X – No: of Cores – 02, 04, 06, 08, 12, 24, 48, 96 Cores etc.

Fiber Cabling

Multimode Armoured/Direct Burial Fiber Cable

OUTER SHEATH (HDPE / LSZH)
CORRUGATED STEEL RTAPE ARMOUR
POLYSTER / W.S TAPE
GLASS ROVING
FLOODING JELLY
LOOSE TUBE WITH OPTICAL FIBER
LOOSE TUBE WITH OPTICAL FIBER

FRP Rod
Outer Sheath
Rip Cord
ECCS Armour
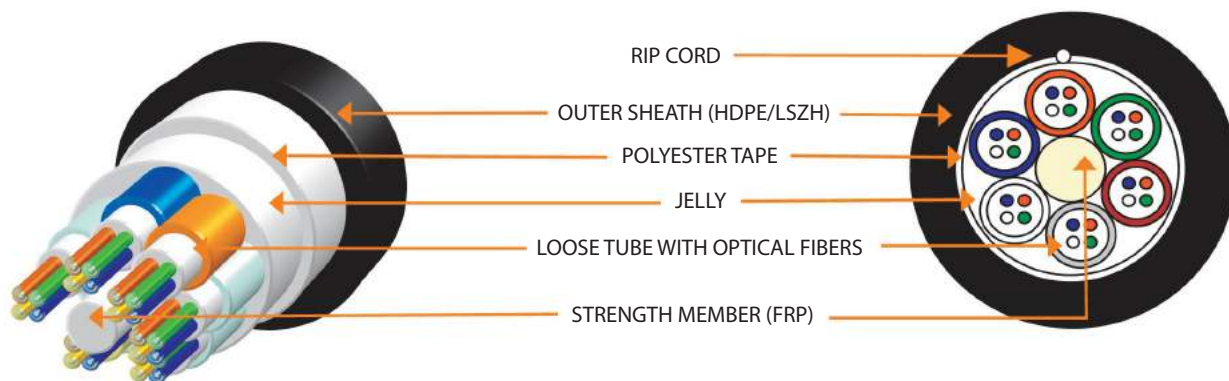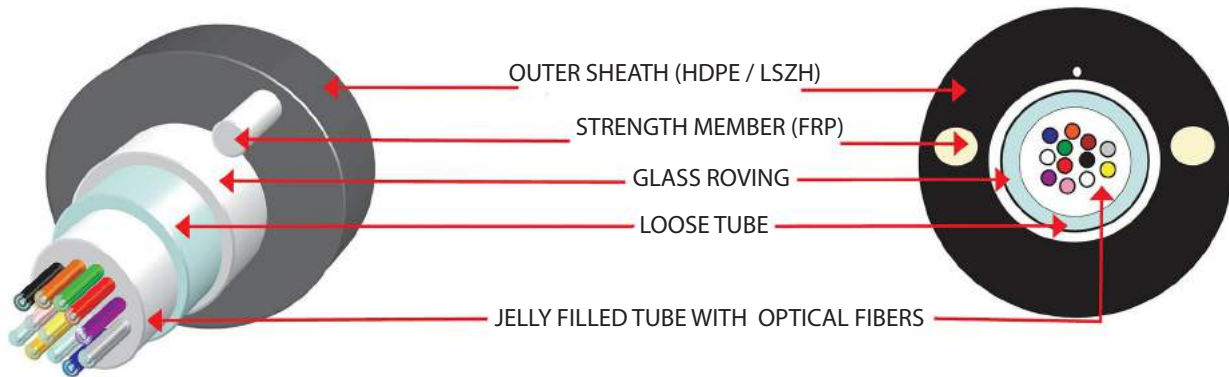Water Swellable Tape
Water Swellable Yarns
Loose Tube
Optical Fibers with Thixotropic Jelly

Avalon armoured fiber cables (Multitube or Unitube designs) are used for 10Gbps networks to meet the requirement of continuous growing of high data rates. The OM3 fiber cable has been developed according to the latest 10 Gbit standards and allows the data transmission over a distance up to max 300m at 850nm. The mechanical strength is provided by the corrugated steel tape and glass yarn strength member adding extra shield against rodent and compression for direct burial application. The outer jacket is flame retardant and Low Smoke Zero Halogen. The Tube encloses multiple coated fibers that are surrounded by thixotropic gel compound that protects the cable from moisture in external environment.

Ordering Information

Part No.*	Description
ANFC-OM4-X-AR	Avalon Fiber Optic Outdoor Loose Tube Armoured Cable OM4
ANFC-OM3-X-AR	Avalon Fiber Optic Outdoor Loose Tube Armoured Cable OM3
ANFC-OM2-X-AR	Avalon Fiber Optic Outdoor Loose Tube Armoured Cable OM2
ANFC-OM1-X-AR	Avalon Fiber Optic Outdoor Loose Tube Armoured Cable OM1

* X – No: of Cores – 02, 04, 06, 08, 12, 24, 48, 96 Cores etc.

Multimode Un-Armoured Fiber Cable

OUTER SHEATH (HDPE / LSZH)

STRENGTH MEMBER (FRP)

GLASS ROVING

LOOSE TUBE

JELLY FILLED TUBE WITH OPTICAL FIBERS

RIP CORD

OUTER SHEATH (HDPE/LSZH)

POLYESTER TAPE

JELLY

LOOSE TUBE WITH OPTICAL FIBERS

STRENGTH MEMBER (FRP)

Avalon multimode optical fiber cable is recommended for duct installation. All six tubes are constructed of PBPT material with eight color coded optical fibers located in each tube. LSZH sheath allows indoor installation. The cable is protected against rodent, but is not recommended for direct burial application. The tube encloses multiple coated fibers that are surrounded by thixotropic gel compound that protects the cable from moisture in external environment. The Fiber Reinforced Plastic (FRP) rod is present at the center of the core and PBTB loose tubes. It is filled with water resistance filing compound, containing primary coated fibers that are stranded around the central strength member (FRP) into a compact and circular cable core.The outer sheath is made of HDPE/LSZH.

Ordering Information

Part No.*	Description
ANFC-OM4-X-LT	Avalon Fiber Optic Un-Armoured Cable - Multimode OM4
ANFC-OM3-X-LT	Avalon Fiber Optic Un-Armoured Cable - Multimode OM3
ANFC-OM2-X-LT	Avalon Fiber Optic Un-Armoured Cable - Multimode OM2
ANFC-OM1-X-LT	Avalon Fiber Optic Un-Armoured Cable - Multimode OM1

* X – No: of Cores – 02, 04, 06, 08, 12, 24, 48, 96 Cores etc.

Fiber Cabling

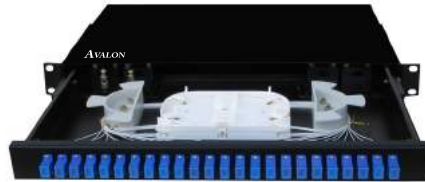# Fiber Optic Patch Panel

Avalon 12, 24 and 48 ports sliding patch panels can be ordered for ports such as SC, LC, ST or FC type. The panel can also be pre- loaded completely with the required adapters and simple management kit. The sliding system in its basic form can be supplied with or without adapters. The tray is locked in place and has two plastic catches for simple installation. When fully extended the tray is designed to lower at 45 degrees or move the tray to the side and locks at 10 degrees only. It fully provides a perfect working platform for simple installation and easy maintenance.
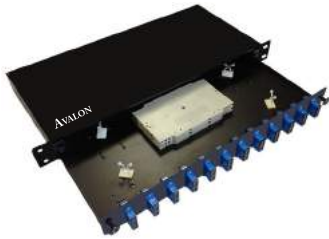
12 Ports Fiber Patch Panel   24 Ports Fiber Patch Panel   48 Ports Fiber Patch Panel

Specifications

Element	12 Port	24 Port	48 Port
U Size	1U	1U	2U
Width	483mm	483mm	483mm
Depth	200mm	200mm	200mm
Weight	2.8kgs fully	2.8kgs fully	2.8kgs fully
Packaged Dimensions	450mm W X 55mm H x 260 mm D	450mm W X 55mm H x 260mm D	520 x 310 x 222 mm
IP Rating	IP20	IP20	IP20
Adapter Options	SC Duplex/Quad	SC /FC/ST/LC/E2000	SC /FC/ST/LC/E2000
Number of ports	12	24	48
Cable Entry 20mm	2	2	2
Mounting adjustment range	50mm	50mm	50mm
Material	Cold Rolled Steel	Cold Rolled Steel	Cold Rolled Steel
Material thickness	1.2mm	1.2mm	1.2mm
Material coating	Powder coating	Powder coating	Powder coating
Colour	Black RAL 9004	Black RAL 9004	Black RAL 9004
Operating Temperature	-40°C to + 50°C	-40°C to + 50°C	-40°C to + 50°C
Compliant to	RoHS, Reach / SVHC	RoHS, Reach / SVHC	RoHS, Reach / SVHC
Designed in accordance	TIA/EIA 568.C, ISO/IEC 11801, EN 50173,IEC 60304	TIA/EIA 568.C, ISO/IEC 11801, EN 50173,IEC 60304	TIA/EIA 568,C, ISO/IEC 11801, EN 50173,IEC 60304

Ordering Information

Fiber Type	Number of Ports		
	12	24	48
FC	ANPP-12-1U-FC	ANPP-24-1U-FC	ANPP-48-2U-FC
LC	ANPP-12-1U-LC	ANPP-24-1U-LC	ANPP-48-2U-LC
ST	ANPP-12-1U-ST	ANPP-24-1U-ST	ANPP-48-2U-ST
SC	ANPP-12-1U-SC	ANPP-24-1U-SC	ANPP-48-2U-SC

AVALON
Network Products

APC Fiber Patch Cords

Avalon APC fiber patch cords support high speed data applications over installations that include entrance facilities, carrier equipment, telecommunications, patch field and CATV etc. Our APC patch cords are 100% factory inspected and comply with GR 326 issue 3.

| FC/UPC - FC/UPC | FC/UPC - SC/APC | LCAPC - FCUPC | SC/APC - SC/APC | FCAPC - LCAPC |

| FCAPC - SCUPC | FCAPC - FCUPC | SCAPC - FCUPC | FCAPC - FCAPC | FCAPC - LCAPC |

| SCAPC - SCUPC | STAPC - LCUPC | STAPC - SCAPC | STAPC - STAPC | FCAPC - LCAPC |

Specifications

Characteristics	Conditions	Value
Insertion Loss Return Loss		< 0.2 dB
Fiber Type	Singlemode , Simplex or Duplex	
Return Loss		>-45dB
Durability	1000 Matings	< 0.2 dB
Temperature Cycling	-40^0 to $+80^0$ C (42 Cycles)	< 0.2 dB
Humidity Cycling	75^0 C, 95%/336 hr	< 0.2 dB

Ordering Information

Part Number *	Description
ANPC-SM-XX-XX/APC-LSZH-YY-ZMT	Avalon APC Single Mode Fiber Patch Cords LSZH
ANPC-SM-XX-XX/APC-YY-ZMT	Avalon APC Single Mode Fiber Patch Cords

* Replace XX with SC, LC, ST or FC. YY with SP (Simplex) or DP (Duplex) and Z with 1, 2, 3... 10…or 30 meters etc.

Fiber Cabling

UPC Fiber Patch Cords

Singlemode & Multimode

Avalon UPC fiber patch cords provide connections from active components to patch panels and to wall outlets. The fiber patch cords are polished, crimped and tested with superior performance and manufactured as duplex. All terminations passed the 400x visual inspection, inserted and return loss test. The fiber offers various type of connectors such as LC, SC, ST, FC, MTRJ, Duplex to Simplex type. Various fiber microns are available such 62.5/125 (0M1), 50/125 (0M2) 50/125 (0M3), 9/125 (0S1).

FC UPC Fiber Optic Patch Cords

Avalon FC fiber optic patch cord are available in both singlemode and multimode versions, and is fully inter-mateable with NTT-FC products. Both singlemode and multimode FC fiber patch cords come with a Zirconia ceramic ferrule with pre-polished UPC profile and APC profile in cases of singlemode. These end face types allow for faster polishing and low back reflection and optical loss, while ensuring maximum repeatability. Avalon Patch Cords come with different connector combinations such as FC-FC, FC-LC, FC-SC, FC-ST in different lengths.

LC UPC Fiber Optic Patch Cords

Avalon LC fiber optic patch cords are ideal for high density applications. The LC fiber patch connector has a Zirconia ceramic ferrule measuring 1.25mm O.D. with either a UPC or APC end face and provides optimum insertion and return loss. The LC fiber patch cable connector is used on small diameter mini-cordage (1.6 mm/2.0mm) as well as 3.0mm cable. The LC fiber cable connectors are available in cable assembled or one piece connectors. Avalon Patch Cords come with different connector combinations such as LC - LC, LC - SC, LC-ST and LC-FC etc. multimode or singlemode in different lengths.

SC UPC Fiber Optic Patch Cords

Avalon SC fiber optic patch cords are ideal for a wide range of applications where back reflection must be kept to a minimum. The connector has a UPC or APC polish on the fiber optic connector end face. The SC fiber optic patch cords such as SC-LC, SC-ST, SC-FC and SC-SC etc. The SC fiber optic cable assemblies come with microns such as 9/125 (G.657 A, G.657B, G.655, G.652D), 50/125 and 62.5/125.

ST UPC Fiber Optic Patch Cords

Avalon ST fiber optic patch cords have a UPC or APC polish on the connector end face. This polish results in a highly radius domes end face surface that optimizes physical contact between the mated fiber optic cores. The Patch cords come with different connector combinations such as ST-ST, ST-LC, ST-SC, ST-FC, fiber optic patch cables and fiber optic jumper cables. The custom design types include single mode 9/125, multimode 50/125, multimode 62.5/125, simplex and duplex.

Specifications

Characteristics	Description	Value
Insertion Loss Return Loss	Against Reference Connector	< 0.2 dB
	UPC	> 50 dB
	APC	> 60 dB
Durability	1000 Matings	< 0.2 dB
Temperature Cycling	-40^0 C to $+80^0$ C (42 Cycles)	< 0.2 dB
Humidity Cycling	75^0C, 95%/336hr	< 0.2 dB
Vibration	10-55HZ	< 0.2 dB
Flex Test	0 to 90 degrees to 0 to 90, 5kgf(100 cycles)	< 0.2 dB
Twist Test	0.9mm : .75kgf, 2.0mm:1.53kgf	< 0.2 dB
Straight Pull Test	100N Load	< 0.2 dB
Impact	1.5m drop, 8times	< 0.2 dB

AVALON
Network Products

Single Mode - Fiber Patch Cords

Ordering Information

Part Number *	Description
ANPC-SM-XX-XX/UPC-LSZH-YY-ZMT	Avalon UPC Fiber Patch Cords Single Mode LSZH
ANPC-SM-XX-XX/UPC-YY-ZMT	Avalon UPC Fiber Patch Cords Single Mode

* Replace XX with SC, LC, ST or FC. YY with SP (Simplex) or DP (Duplex) and Z with 1, 2, 3... 10…or 30 meters etc.

OM4 - Multimode Fiber Patch Cords

Ordering Information

Part Number *	Description
ANPC-OM4-XX-XX/UPC-LSZH-YY-ZMT	Avalon OM4 Fiber Patch Cords LSZH
ANPC-OM4-XX-XX/UPC-YY-ZMT	Avalon OM4 Fiber Patch Cords

* Replace XX with SC, LC, ST or FC. YY with SP (Simplex) or DP (Duplex) and Z with 1, 2, 3... 10…or 30 meters etc.

OM3 - Multimode Fiber Patch Cords

Ordering Information

Part Number *	Description
ANPC-OM3-XX-XX/UPC-LSZH-YY-ZMT	Avalon OM3 Fiber Patch Cords LSZH
ANPC-OM3-XX-XX/UPC-YY-ZMT	Avalon OM3 Fiber Patch Cords

* Replace XX with SC, LC, ST or FC. YY with SP (Simplex) or DP (Duplex) and Z with 1, 2, 3... 10…or 30 meters etc.

Fiber Cabling

OM2 - Multimode Fiber Patch Cord

Ordering Information

Part Number *	Description
ANPC-OM2-XX-XX/UPC-LSZH-YY-ZMT	Avalon OM2 Fiber Patch Cords LSZH
ANPC-OM2-XX-XX/UPC-YY-ZMT	Avalon OM2 Fiber Patch Cords

* Replace XX with SC, LC, ST or FC, YY with SP (Simplex) or DP (Duplex) and Z with 1, 2, 3... 10…or 30 meters etc.

OM1 - Multimode Fiber Patch Cord

Ordering Information

Part Number *	Description
ANPC-OM1-XX-XX/UPC-LSZH-YY-ZMT	Avalon OM1 Fiber Patch Cords LSZH
ANPC-OM1-XX-XX/UPC-YY-ZMT	Avalon OM1 Fiber Patch Cords

* Replace XX with SC, LC, ST or FC. YY with SP (Simplex) or DP (Duplex) and Z with 1, 2, 3... 10…or 30 meters etc.

Fiber Optic Connectors

Avalon connectors are manufactured in accordance with ANSI/TIA/ EIA-604-2 standards. Each connector consists of a housing, a crimp sleeve and a strain relief boot. The types of fiber connectors available are FC, LC, SC, ST in Multimode (62.5/125, 50/125) and Singlemode (9/125). Avalon APC fiber connectors polishes the fiber at either an 8 or 9 degrees angle with a radius of curvature between 5 and 12mm. Through angle polishing at the end of the fiber, one ensures that the reflection at the fiber air interface is not captured by the fiber core. This reduces the reflection level in the fiber optic system and reduces feedback problems.

Specifications

Characteristics	Description	Value
Insertion Loss		< 0.2
Mating Durability	500 Time	< 0.2
Temperature Cycling	-40^0 C to + 85^0 C	< 0.2
	(42 Cycles)	< 0.2
Humidity Cycling	75	< 0.2
	95% / 336hr	< 0.2
Vibration	10-55 Hz (2 Hrs)	
Impact	1.5m drop, 8 Times	< 0.2

FC Fiber Optic Connector

Avalon FC Connectors are specifically designed for telecom applications and provide a non-optical disconnect performance. This is designed with a threaded coupling for durable connection. The ferrule is UPC finished to a pre-radius, which ensures low back reflection. The Connector is available with Zirconia or stainless alloy ferrules.

LC Fiber Optic Connector

Avalon LC connectors provide a pull-proof design and small size perfect for high density applications. The connector comes with Zirconia ferrule about half the size of a standard SC ferrule. The LC fiber optic connector provides a good performance and can be ordered either for singlemode or multimode fiber optic applications. The connector also incorporates a unique latching mechanism that provides stability in the system rack mounts.

SC Fiber Optic Connector

Avalon SC connectors are non-optical disconnect connector with a 3.0 mm pre-radiused Zirconia ferrule. Available in simplex and duplex styles, this connector features a push - pull connection design for quick patching of cables into rack or wall mounts.

ST Fiber Optic Connector

Avalon ST connectors utilize a bayonet twist-lock connection with 3.0mm ferrule. Available in singlemode and multimode versions, the ST connector features reliable and durable field installation. The design of the ST connector enables installers to crimp the back of the body directly onto the cable jacket.

Ordering Information

Part Number *	Condition
Singlemode Connectors	
ANCN-SM-XX-YYY	Avalon Single Mode Connector
Multimode Connectors	
ANCN-OM1-XX	Avalon OM1 Connector
ANCN-OM2-XX	Avalon OM2 Connector
ANCN-OM3-XX	Avalon OM3 Connector
ANCN-OM4-XX	Avalon OM4 Connector

* Replace XX with SC, LC, ST or FC and YYY with APC or UPC

Fiber Optic Pigtails

Specifications

Characteristics	Conditions	Value
Insertion Loss Return Loss	Against Reference Connector	< 0.2 dB
	SPC	> 40 dB
	UPC	> 50 dB
	APC	> 60 dB
Durability	1000 Matings	< 0.2 dB
Temperature Cycling	-40^0 C to $+80^0$ C (42 Cycles)	< 0.2 dB
Humidity	75^0 C , 95%/336hr	< 0.2 dB
Vibration	10 to 55 HZ (2 hours)	< 0.2 dB
Flex Test	0 to 90 degrees to 0 to 90, 5kgf (100 cycles)	< 0.2 dB
Twist Test	0.9mm : 0.75kgf, 2.0mm:1.53 kg	< 0.2 dB
Straight Pull Test	100 N Load	< 0.2 dB
Impact	1.5m drop, 8 times	< 0.2 dB
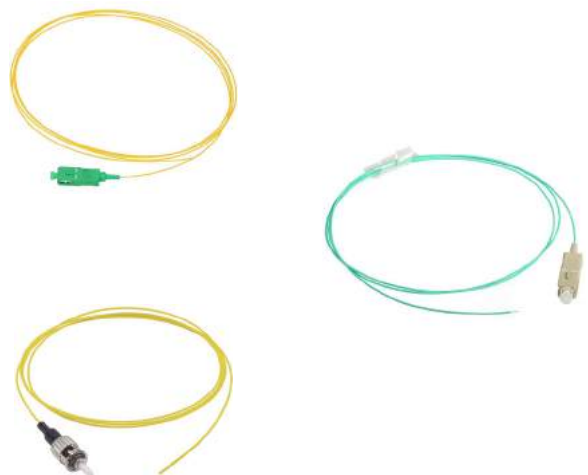
Avalon fiber optic pigtails come with 0.2mm or 0.9mm fiber cable diameter and are usually installed inside the ODF unit. Avalon offers different types of pigtails such as SC, ST, FC and LC with microns such as 62.5/125 (OM1), 50/125 (OM2), 50/125 (0M3) for multimode and 09/125 for singlemode types. These pigtails are commonly used for splicing on to outside plant or riser rated fiber optic cables. All pigtails are jacketed as PVC or LSZH and comply with the latest ITU-T recommendation G.652D and G.657A. The angle polished (APC) pigtails are made by polishing the fiber either at 8 or 9 degrees angle with a curvature between 5mm and 12mm. The fiber has a typical insertion loss of 0.2dB per connection and APC polished end faces at 65dB minimum return loss. These pigtails have passed the international standards of TIA/EIA-568-B.3, ISO/IEC 11801 OS1 and comply with the UL 1666 flame rating.

SC Fiber Optic Pigtails

Avalon SC fiber optic pigtail connectors compose of singlemode and multimode types, they are premium grade connectors with 0.9mm outer diameter cables either of a simplex or duplex construction. It is a single piece construction and full proof design. The SC type pigtail is a low cost but high performance pigtail.

ST Fiber Optic Pigtails

Avalon ST fiber optic pigtail comes with 0.9mm outer diameter cable. It has a metal outer body and along spring loaded ferrule that holds the optical fiber. The ST cable can be 9/125 singlemode or 50/125 or 62.5/125 multimode. This connector is of the older generation, but it is still widely used in fiber optic communications especially for multimode networks.

LC Fiber Optic Pigtails

Avalon LC fiber pigtails come with premium grade connectors come with 0.2mm or 0.9mm outer diameter cables either in simplex or duplex construction. It features the RJ-45 style interface with low insertion loss and low back refl -ection with a high precision alignment. The connector comes with Zirconia ceramic ferrule.

FC Fiber Optic Pigtails

Avalon FC fiber optic pigtail composes of singlemode and multimode types and comes with a Zirconia ceramic ferrule. The FC connector has a low back reflection and optical loss while ensuring maximum repeatability.

Ordering Information

Singlemode Part No.*	Description
ANPT-SM-XX/YYY-LSZH-ZMT	Avalon Single Mode Fiber LSZH Pigtail
ANPT-SM-XX/YYY-ZMT	Avalon Single Mode Fiber Pigtail
Multimode Part No.*	Description
ANPT-OM1-XX-LSZH-ZMT	Avalon OM1 Fiber LSZH Pigtail
ANPT-OM2-XX-LSZH-ZMT	Avalon OM2 Fiber LSZH Pigtail
ANPT-OM3-XX-LSZH-ZMT	Avalon OM3 Fiber LSZH Pigtail
ANPT-OM4-XX-LSZH-ZMT	Avalon OM4 Fiber LSZH Pigtail
ANPT-OM1-XX-ZMT	Avalon OM1 Fiber Pigtail
ANPT-OM2-XX-ZMT	Avalon OM2 Fiber Pigtail
ANPT-OM3-XX-ZMT	Avalon OM3 Fiber Pigtail
ANPT-OM4-XX-ZMT	Avalon OM4 Fiber Pigtail

* Replace XX with SC, LC, ST or FC. YYY with APC or UPC. Z with 1 or 2 meters etc.
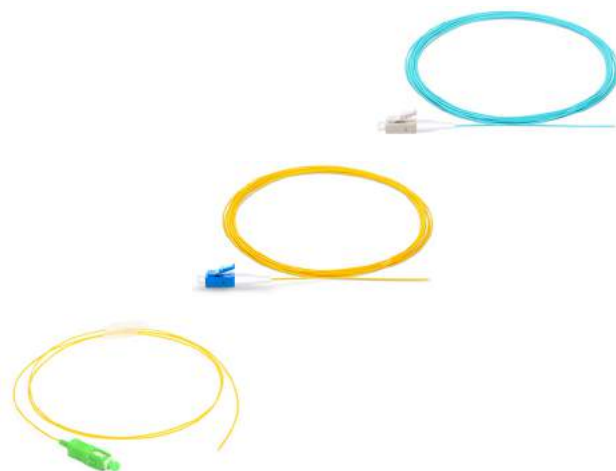
Fiber Optic Splice Sleeve

Avalon Splice Sleeves are a combination of transparent plastic tubing and stainless-steel rods that are ideal for safeguarding fusion fiber optic splices in field and factory operations. It can be used in wall-mount, aerial strand-mount, pedestal, underground, strand-mount and pole-mount applications.

Ordering Information

Part Number *	Description
ANFS-100	Fiber Sleeve for splicing (Pack of 100)

AVALON
Network Products

Fiber Optic Adapters

SC/UPC   FC/UPC   ST/UPC   FC/APC   ST/APC   SC/APC

Avalon fiber optic adapters compose of FC, SC, ST, LC, and hybrid fiber optic adapters either singlemode or multimode including simplex and duplex types. The Avalon adapters are used to load in a fiber patch panel or work outlets. It complies with the international standards of TIA/EIA 568-0.3. Avalon APC Adapters are mechanical devices designed to align optical fiber connectors.

SC Fiber Optic Adapter

Avalon fiber optic adapters consist of plastic housing. The singlemode SC UPC is labelled as blue color whereas the multimode SC comes in beige color. The adapters generally come with ceramic sleeves and bronze sleeves which are multimode types.

LC Fiber Optic Adapter

Avalon LC fiber optic adapters come as simplex or duplex and in single mode and multimode versions with plastic housing and Zirconia sleeve. The optional bronze sleeve adapters are for multimode version.

ST Fiber Optic Adapter

Avalon ST fiber optic adapters come as simplex or duplex and in singlemode and multimode versions with plastic housing and Zirconia sleeve. The optional bronze sleeve adapters are for multimode version.

FC Fiber Optic Adapter

Avalon FC square fiber optic adapter has a standard body style with nickel plated brass or nickel plated zinc housing. The FC round fiber optic adapters come with a choice of D Flange (08.85 x 7.95mm) or double D flange (9.35 x 7.65mm), and feature nickel plated brass housing for corrosion resistance.

Specifications

Characteristics	Condition	Value
Insertion Loss		>=0.2dB
Return Loss		>=45dB
Mating Durability	1000 times	0.20
Temperature	-40^0C $+85^0$C (42 cycles)	0.20
Humidity Cycling	75 , 95%/336hr	0.20
Vibration	10-55Hz (2hr)	0.20
Impact	1.5m drop, 8 times	0.20

LC/UPC   LC/APC

Ordering Information

Singlemode Part No.*	Description
ANA-SM-XX-XX/YYY-ZZ	Avalon Singlemode Adapter
Multimode Part No.*	**Description**
ANA-OM1-XX-XX/UPC-ZZ	Avalon OM1 Multimode Adapter
ANA-OM2-XX-XX/UPC-ZZ	Avalon OM2 Multimode Adapter
ANA-OM3-XX-XX/UPC-ZZ	Avalon OM3 Multimode Adapter
ANA-OM4-XX-XX/UPC-ZZ	Avalon OM4 Multimode Adapter

Multimode SC
Simplex

Multimode LC
Duplex

* Replace XX with SC, LC, ST or FC, YYY with APC or UPC and ZZ with SP (Simplex) and DP (Duplex)

Fiber Cabling

Fiber Optic Splitter
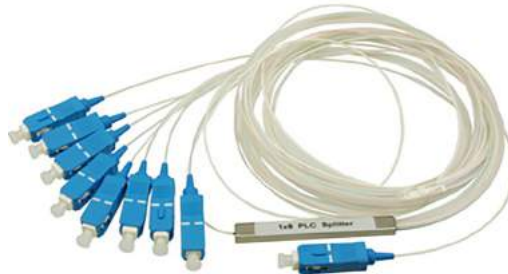
Avalon's PLC (Planar Lightwave Circuit) Splitters are branching devices that are used to distribute optical signals to multiple locations for processing. They are designed for FTTX passive optical networks, CWDM, DWDM and optical cable TV Systems etc. Our PLC splitter performs superbly across temperatures and wave lengths providing low insertion, low PDL, excellent uniformity and low return loss. They come in various configurations of 1X2, 1X4, 1X8.1X16 …upto 1X64. The Connectorized PLC Splitters are available with different choices of fiber optic connectors such as LC/UPC, LC/APC, SC/UPC, SC/APC, FC/UPC, FC/APC, and ST/UPC etc.

Features
- Compact design
- Low insertion loss and low PDL High reliability
- High channel counts
- Wide wavelength range
- Wide operating temperature range
- Customized packaging and configuration

Applications
- FTTx Systems
- LAN, WAN and Metro Networks Analog/Digital
- Passive Optical Networks CAM/ Networks
- Other applications in fiber optic systems

Specifications

Port Configuration	Nx4	Nx8	Nxl6	Nx32
Fiber	SMF-28 or SMF-28e			
Operation Wavelength (nm)	1260 - 1620			
Insertion Loss (dB)	7.4/7.2	10.7/10.5	13.7/13.5	16.9/16 .5
Uniformity (dB)	0.5	0.8	1.2	1.5
Polarization Dependent Loss (dB)	0.2	0.2	0.3	0.3
Return Loss (dB)		50		
Directivity (dB)		55		
Operating Temperature (°C)		-40 to +80		
Storage Temperature (°C)		-60 to +80		
Dimension (mm) - (L)(W)(H)		40　4　4		55　7　4

Ordering Information

Part Number *	Description
ANS-1*2-XX/YYY	Avalon PLC SPLITTER 1X2
ANS-2*8-XX/YYY	Avalon PLC SPLITTER 2X8
ANS-2*32-XX/YYY	Avalon PLC SPLITTER 2X32
ANS-2*64-XX/YYY	Avalon PLC SPLITTER 2X64

* Replace XX with SC, LC, FC or ST
  YYY with APC or UPC

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Network Products

2/4 Core FTTH Termination Box

Avalon's termination boxes come in different sizes. The smaller size fiber optic terminal box is used for fiber optic distribution and organization. Our typical fiber terminal boxes come with 4, 8 and 16 ports. We have different FTTH termination boxes which can be used for indoor or outdoor terminations and distribution. The fiber optic boxes are made of cold rolling steel and the surface of the box is made up of dim blowing plastic. This type of fiber optic box is available with a variety of adapter cutouts. Additional splice trays can be stacked on top to increase the capacity. Each splice tray can install up to 24 single fiber splice protection sleeves (with diameter of 2.3mm) or 6 ribbon splice protection sleeves. These splice trays can be opened individually and removed from the box. Any excess lengths of cables/pigtails are stored as reels in the front panel.

Features

- Ability to allow cables to enter from rear or bottom of the unit.
- All fibers are positively managed to maintain a 30mm minimum bend radius.
- Optional removable rear entry cable management.
- Flip tray to allow access to connect tails and cable entry
- Compact, low profile, wall mounted unit used for small and large Business premises.
- Removable cover for easy access.
- Tamper proof cover security screws available as an option
- Unit manufactured from fire resistant UL94-V0 rated material.
- Patch cord exit unit on bottom face and are protected by two protection covers.
- Standard Colour white. Other colours available on request.

Technical Specifications

Characteristics	Value
Maximum input cable diameter (mm)	10mm
Maximum Capacity	4 Fibers
Maximum no. of customer feeds	4 Patch Cords
Operating temperature	-20^{0}C to to +50^{0}C (5 to 95% RH)
Material	
Cap	FR High Impact Polystyrene
Base	FR High Impact Polystyrene
Splitter trays	FR High Impact Polystyrene
Testing	
Optical	Tested 1310nm,1550nm and 1625nm
Dry heat	BS EN 60068-2-2 Test Bb
Damp heat	IEC 60068-2-3: 1969
Change of temperature	IEC 60068-2-14: 1984
Vibration	IEC 60068-2-6: 1995
Shock	IEC 60068-2-27: 1987

Ordering Information

Part Number	Description	Capacity Cores	Dimensions (mm)
ANFTTHTB-2P	FTTH Termination Box 2 Port	SC, E-2000 - 2 cores, LC - 4 Cores	80x 80x24
ANFTTHTB-4P	FTTH Termination Box 4 Port	SC, E-2000 - 4 cores, LC - 8 Cores	120x80x24

Fiber Cabling

RACKS & CABINET SOLUTIONS

With over 20 years of rich experience and know-how on designing and developing Racks & Cabinets, we will definitely be your first choice and reliable selection.

ISO 9001
BUREAU VERITAS
Certification

BUREAU VERITAS
1828

etisalat
Approved

Racks & Cabinet Solutions

Cabinets are a core part of the cabling system and take an irreplaceable role in the equipment room. Nowadays cabinets not only have the simple function of storing devices but also can provide protection, stop electro-magnetic interference and arrange equipment orderly to facilitate future maintenance

Avalon provides a complete cabinet solution including sever cabinets, wall mount cabinets, cable management units & mounting accessories with active power supply devices etc

Solutions and Components

Avalon delivers strong and high quality wall mountable and free standing racks from sizes 4U to 47U with different dimensions. Along with the racks, Avalon also has a huge range of rack components like fans, shelves, locks, power distribution units and cable managers etc

Our Quality Guarantee

Avalon racks are manufactured out of solid steel in Armada CNC machines and are powder coated through a seven tank process giving it the resistance and capability to last for years

These racks are designed in the United Kingdom and come with perforated doors to provide the required ventilation inside the rack which increases the life of the equipment placed inside them and robust locking system to provide security

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Network Products

AVALON
Racks & Cabinet Solution

Racks & Cabinets

Floor Standing Racks

Avalon floor standing racks are feature-rich rack enclosures optimized for easy installation, managing cables, integrating power distribution and maximizing airflow. These racks are multi-functional rack enclosures designed to meet current IT market trends and applications ranging from high density computing and networking to broadcast and audio-video. With a strong focus on cooling, power distribution, cable management and environmental monitoring, the Avalon rack enclosure provides a reliable rack-mounting environment for mission-critical equipment.

Power Distribution
- Max current: 13 Amps
- Max output Power: 3250 Watts
- Rated voltage: 200 - 250 Volts 50-60 HZ
- Six outlet UK Type
- Lower noise, Less than 48dB, Air flow 50 110 CBM/H

Cabinet Features
- Earthing screw
- 19" mounting angles
- Front glass door with lock and handle
- Rear metal door with lock
- Removable side panels
- Adjustable jacking feet
- Cooling fans fitted in a fan tray with cable for connection
- Extra cage nuts provided (30 Nos)
- Both the doors can be mounted to be opening from either side.
- Lock on the front door with handle and rear door with duplicate keys.
- Earthing screws & two-way vertical cable managers (for few models only)

Technical Specifications
- All steel construction
- Frame made of 1.2 mm thick SPCC
- Fixed shelves made of 1.2 mm thick SPCC (optional)
- Mounting angles made of 2.0 mm thick steel
- Strong structure of individually fabricated components
- Manufactured using CNC machines only
- Surface Finish is made of Matt Black epoxy powder coated paint (RAL 9005)

Cooling Fan With Effective Ventilation
- Lower noise, less than 48dB, air flow 50 110 CBM/H

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Network Products

Ordering Information

Part No.	Description	Size	Width	Depth
AN-FS12U600X600	12 U 600(W) x 600(D) - Floor Standing Rack	12U	600mm	600mm
AN-FS15U600X600	15 U 600(W) x 600(D) - Floor Standing Rack	15U	600mm	600mm
AN-FS15U600X800	15 U 600(W) x 800(D) - Floor Standing Rack	15U	600mm	800mm
AN-FS18U600X600	18 U 600(W) x 600(D) - Floor Standing Rack	18U	600mm	600mm
AN-FS18U600X800	18 U 600(W) x 800(D) - Floor Standing Rack	18U	600mm	800mm
AN-FS18U600X1000	18 U 600(W) x 1000(D) - Floor Standing Rack	18U	600mm	1000mm
AN-FS22U600X600	22 U 600(W) x 600(D) - Floor Standing Rack	22U	600mm	600mm
AN-FS22U600X800	22 U 600(W) x 800(D) - Floor Standing Rack	22U	600mm	800mm
AN-FS22U600X1000	22 U 600(W) x 1000(D) - Floor Standing Rack	22U	600mm	1000mm
AN-FS22U800X1000	22 U 800(W) x 1000(D) - Floor Standing Rack	22U	800mm	1000mm
AN-FS24U600X800	24 U 600(W) x 800(D) - Floor Standing Rack	24U	600mm	800mm
AN-FS24U800X1000	24 U 800(W) x 1000(D) - Floor Standing Rack	24U	800mm	1000mm
AN-FS27U600X600	27 U 600(W) x 600(D) - Floor Standing Rack	27U	600mm	600mm
AN-FS27U600X800	27 U 600(W) x 800(D) - Floor Standing Rack	27U	600mm	800mm
AN-FS27U800X800	27 U 800(W) x 800(D) - Floor Standing Rack	27U	800mm	800mm
AN-FS27U800X1000	27 U 800(W) x 1000(D) - Floor Standing Rack	27U	800mm	1000mm
AN-FS27U600X1000	27 U 600(W) x 1000(D) - Floor Standing Rack	27U	600mm	1000mm
AN-FS32U600X600	32 U 600(W) x 600(D) - Floor Standing Rack	32U	600mm	600mm
AN-FS32U600X800	32 U 600(W) x 800(D) - Floor Standing Rack	32U	600mm	800mm
AN-FS32U600X1000	32 U 600(W) x 1000(D)- Floor Standing Rack	32U	600mm	1000mm
AN-FS37U600X600	37 U 600(W) x 600(D) - Floor Standing Rack	37U	600mm	600mm
AN-FS37U600X800	37 U 600(W) x 800(D) - Foor Standing Rack	37U	600mm	800mm
AN-FS37U600X1000	37 U 600(W) x 1000(D) - Floor Standing Rack	37U	600mm	1000mm
AN-FS37U800X800	37 U 800(W) x 800(D) - Floor Standing Rack	37U	800mm	800mm
AN-FS37U800X1000	37 U 800(W) x 1000(D) - Floor Standing Rack	37U	800mm	1000mm
AN-FS42U600X600	42 U 600(W) x 600(D) - Floor Standing Rack	42U	600mm	600mm
AN-FS42U600X800	42 U 600(W) x 800(D) - Floor Standing Rack	42U	600mm	800mm
AN-FS42U800X800	42 U 800(W) x 800(D)- Floor Standing Rack	42U	800mm	800mm
AN-FS42U600X1000	42 U 600(W) x 1000(D) - Floor Standing Rack	42U	600mm	1000mm
AN-FS42U800X1000	42 U 800(W) x 1000(D) - Floor Standing Rack	42U	800mm	1000mm
AN-FS42U800X1200	42 U 800(W) x 1200(D) - Floor Standing Rack	42U	800mm	1200mm
AN-FS47U800X800	47 U 800(W) x 800(D) - Floor Standing Rack	47U	800mm	800mm
AN-FS47U800X1000	47 U 800(W) x 1000(D) - Floor Standing Rack	47U	800mm	1000mm
	Golden Series Racks			
AN-FS42U600X800G	42U x 600(W) x 800(D) - Golden Series Rack	42U	600mm	800mm
AN-FS42U600X1000G	42U x 600(W) x 1000(D) - Golden Series Rack	42U	600mm	1000mm
AN-FS42U800X800G	42U x 800(W) x 800(D) - Golden Series Rack	42U	800mm	800mm
AN-FS42U800X1000G	42U x 800(W) x 1000(D) - Golden Series Rack	42U	800mm	1000mm
AN-FS42U800X1200G	47U x 800(W) x 1200(D) - Golden Series Rack	47U	800mm	1200mm
AN-FS47U800X1000G	47 U 800(W) x 1000(D) Floor Standing Rack	47U	800mm	1000mm
AN-FS47U800X1200G	47 U 800(W) x 1200(D) Floor Standing Rack	47U	800mm	1200mm

Racks & Cabinets

Wall Mount Cabinets

Single Section Wall Mount Cabinet

Double Section Wall Mount Cabinet

Avalon Wall Mount Cabinets are feature-rich enclosures optimized for easy installation, managing cables, integrating power distribution and maximizing airflow. These racks are multi-functional rack enclosures designed to meet current IT market trends and applications ranging from high density computing and networking to broadcast and audio-video. With a strong focus on cooling, power distribution, cable management and environmental monitoring, the Avalon rack enclosure provides a reliable rack-mounting environment for mission-critical equipment.

Cabinet Features

- 19" Mounting Angles
- Front glass door with lock (Tempered glass)
- Door can be mounted to be opening from either side
- Lock on the front door with duplicate keys
- Removable side panels
- Extra cage nuts provided
- Earthing Screw
- Cooling fan for effective ventilation (Optional)
- A swing rear section with lock (100mm Depth)- Contruction adds to the operation and maintenance.

Technical Specifications

- All Steel construction
- Frame Made of 1.2 mm thick SPCC
- Fixed shelves made of 1.2 mm thick SPCC (Optional)
- Mounting Angles made of 2.0 mm thick steel
- Strong structure of individually fabricated components
- Manufactured using CNC machines only
- *Surface Finish*: Matt Black Epoxy Powder Coated Paint (RAL9005)

Cooling Fan With Effective Ventilation (Optional)

- Lower noise, less than 48dB, Air flow 50 - 110 CBM/H

Ordering Information

Part No.	Description	Size	Width	Depth
AN-WM4U600X450	4 U x 600(W) x 450(D) Wall Mount Cabinet	4U	600mm	450mm
AN-WM6U600X450	6 U x 600(W) x 450(D) Wall Mount Cabinet	6U	600mm	450mm
AN-WM6U600X550	6 U x 600(W) x 550(D) Wall Mount Cabinet	6U	600mm	550mm
AN-WM9U600X450	9 U x 600(W) x 450(D) Wall Mount Cabinet	9U	600mm	450mm
AN-WM9U600X550	9 U x 600(W) x 550 (D) Wall Mount Cabinet	9U	600mm	550mm
AN-WM12U600X450	12 U x 600(W) x 450(D) Wall Mount Cabinet	12U	600mm	450mm
AN-WM12U600X550	12 U x 600(W) x 550(D) Wall Mount Cabinet	12U	600mm	550mm
AN-WM15U600X450	15 U x 600(W) x 450(D) Wall Mount Cabinet	15U	600mm	450mm
AN-WM15U600X550	15 U x 600(W) x 550(D) Wall Mount Cabinet	15U	600mm	550mm
AN-WM15U600X600	15 U x 600(W) x 600(D) Wall Mount Cabinet	15U	600mm	600mm
AN-WM18U600X450	18 U x 600(W) x 450(D) Wall Mount Cabinet	18U	600mm	450mm
AN-WM18U600X550	18 U x 600(W) x 550(D) Wall Mount Cabinet	18U	600mm	550mm
AN-WM18U600X600	18 U x 600(W) x 600(D) Wall Mount Cabinet	18U	600mm	600mm

Top 7 tips while buying server cabinets

1. Decide if you need an enclosed cabinet or an open Rack.

2. Assess the width, depth and height that you require depending on the equipment you will be putting inside the Rack

3. Make a list of the equipment which would be placed in the Rack . It can include CPU, Monitors, Keyboards, Modem, servers, Switches, Hubs, routers and UPSs etc.

4. Always ensure that you do not buy a rack that houses your equipment perfectly. Provide for future growth by having extra space in the Rack as you would not know which equipment would be added in the future.

5. One Rack unit (generally denoted as "U") is 1.75'' (4.4 cm). E.g. A 24U Rack has 24 spaces for equipment and is 42" high (105.6 cm).

6. Measure the width, depth and height of the server room before you purchase the Rack.

7. Always ensure that there is at least 10 inches gap between the top of the Rack and the ceiling of the room for effective ventilation.

Racks & Cabinets

12U - Wall Mount Enclosures

Avalon wall mount enclosures are designed to satisfy the most specific requirements of communication and networking and are specially manufactured for telecom services eg. Etisalat and DU. These come with cable entry from top to bottom, front section with glass door, keys and locks. These are constructed with 1.0 mm steel frames are made of 0.8 mm steel and with 19'' vertical mounting rails (1.0 mm thick steel).

Cabinet Features

- 19 " Mounting Angles
- Front glass door with lock
- Door can be mounted to be opening from either side
- Cable entry from top to bottom

Specifications

- Make   :   AVALON
- Type   :   Wall mount Enclosure
- Dimensions Type :   19 inch standard
- Size   :   12U

Technical Specifications

- All Steel construction
- Frame Made of 1.2 mm thick SPCC
- Fixed shelves made of 1.2 mm thick SPCC (Optional)
- Mounting Angles made of 1.0 mm thick steel
- Strong structure of individually fabricated components
- Manufactured using CNC machines only
- Surface Finish : Grey Epoxy powder coated paint (RAL 7035)

Packaging

- Packed in single carton

Ordering Information

Part No.	Height	Width	Depth	Gross Weight	Net Weight
ANWM-12U600X600X150	600	600	150	12	11
ANWM-12U600X425X120	600	425	120	6.5	5.3
ANWM-12U600X600X300	600	600	300	16	14

AVALON
Network Products

Accessories

Cabinet Fan

Avalon rack fans are used to help facilitate air flow within the rack by adding ventilation where it is needed the most. These rack fans can be mounted in cabinet doors, cabinet sides and cabinet roofs.

Dimensions

• 120mm×120mm×38mm

Ordering Information

Part No.	Description
AN-FN13A-20	Cabinet Fan

Brush Panel

Avalon brush panels are 1U cable pass through panels with brush strip. The brush strip blocks unwanted airflow inside rack enclosures and server cabinets. This panel improves the cooling efficiency and segregates cold aisle from hot aisle. These panels are manufactured from mild steel and are powder coated.

Package Includes

• 1 piece of brush panel
• Mounting hardware

Ordering Information

Part No.	Description
AN-1UBRPNL	Brush Panel

Horizontal Cable Manager with Cover

Avalon horizontal cable managers with cover are capable of managing cables on the front and rear of any standard EIA 19" rack or cabinet. These cable organisers feature a removable top cover that makes it easy to add or remove bundled cables quickly. The duct also offers a series of fingers on either side or pass-through holes at the back to help you route your cables wherever you need them and reduce cable strain in the process.

Ordering Information

Part No.	Description
AN-HCM-C	19" Horizontal Cable Managers with cover,1U

Horizontal Cable Managers with Rings

Avalon horizontal cable managers with rings are capable of managing cables on the front and rear of any standard EIA 19" rack or cabinet. These panels are constructed of a steel panel with plastic D-rings Mounted to any rack. The horizontal panels have pass-through holes and are available as either front and rear versions or front only versions.

Ordering Information

Part No.	Description
AN-HCM-OA-4	19" Horizontal Cable Managers with 4 Rings,1U
AN-HCM-OA-5	19" Horizontal Cable Managers with 5 Rings,1U

Racks & Cabinets

Horizontal Cable Managers - Open Type

Avalon horizontal cable managers which are closed type are capable of managing cables on the front and rear of any standard EIA 19" rack or cabinet. These panels are constructed of a steel panel with gaps in between for easy access. The horizontal panels have pass-through gaps and are available as either front and rear versions or front only versions.

Ordering Information

Part No.	Description
AN-HCM-OT	19" Horizontal Cable Managers with open type access

Horizontal Cable Managers - Closed Type

Avalon Horizontal Cable Managers which are closed type are capable of managing cables on the front and rear of any standard EIA 19" rack or cabinet. These panels are constructed of a steel panel with gaps in between for easy access. Horizontal panels shall have pass-through gaps and shall be available in both front and rear versions and front only versions.

Ordering Information

Part No.	Description
AN-HCM-CT	19" Horizontal Cable Managers – Closed Type

Power Distribution Units

PDU, UK Type With Circuit Breaker

Avalon Power Distribution Units (PDU's) are used for controlling electrical power in a data center. The circuit breaker is suitable for lines with AC 50 Hz frequency and voltage from 230V – 400V. The circuit breaker is an automatically operated electrical switch designed to protect an electrical circuit from damage caused by overload or short circuit. Its basic function is to interrupt current flow after protective relays detect a fault.

Ordering Information

Part No. *	Description
AN-XWPDU13UK-BR	PDU – UK Type with Circuit breaker

* X can be 6 Way , 8 Way or 10 Way

PDU, UK Type

Avalon Power Distribution Units (PDU's) are used for controlling electrical power in a data center.

Features

- UK Type BS1363 Sockets
- 19" Rack Mountable
- Master on /off switch

Ordering Information

Part No. *	Description
AN-XWPDU13UK	PDU - UK Type

* X denotes 6, 8 or 10 Way PDU.

PDU, German Type

Avalon Power Distribution Units (PDU's) are used for controlling electrical power in a data center.

Features

- German sockets
- 19" rack mountable
- Master on /off switch

Ordering Information

Part No. *	Description
AN-XWPDU13G	PDU- German Type

* X denotes 8 or 10 Way PDU.

Other Accessories

19" Rack Mount Keyboard Sliding Tray (AN-KBTR300MM)

19" Rack Sliding Shelves (AN-SLD600MM, AN-SLD800MM, AN-SLD1000MM)

General Purpose 1U Fan Unit (AN-1UFNX3)

1U Universal Rack Mount Sliding Shelf (AN-1U/SLD300MM)

1U Rack Mount Shelf (AN-1U300MM)

2U Rack Mount Shelf (AN-2U350MM)

19" Fixed Rack Shelf (AN-FX600MM, AN-FX800MM, AN-FX1000MM)

19" 300mm L-Rail / Support brackets (AN-LRAIL-300)

19" 2U server cabinet drawer locker (AN-2U/DWR3OOMM)

Rail Kit (AN-1UADLRAIL1000M)

Rack Door (AN-800MM27U/DP, AN-600MM42U/SP, AN-800MM42U/DP, AN-800MM47U/DP)

Fan Filter Kit (AN-120x120-FK)

Front Panel Mounting Hardware (Cage Nut & Screws) (AN-CAGN/10)

Racks & Cabinets

BUREAU VERITAS
Certification

Certification
Awarded to

AVALON NETWORK SYSTEMS L.L.C

**M32, AL HUDAIBA BUILDING,
P. O. BOX 24898, DUBAI,
UNITED ARAB EMIRATES.**

*Bureau Veritas Certification Holding SAS – UK Branch certify that the
Management System of the above organisation has been audited and
found to be in accordance with the requirements of the
management system standards detailed below.*

Standards

ISO 9001:2008

Scope of Certification

**TRADING, SUPPLY, DISTRIBUTION, INSTALLATION,
CONFIGURATION, MAINTENANCE AND REPAIRS OF
IT AND NETWORKS PRODUCTS.**

Certification cycle start date: **20th JANUARY 2016**

Subject to the continued satisfactory operation of the organisation's Management
System, this certificate expires on: **14th SEPTEMBER 2018**

Original certification date: **20th JANUARY 2016**

Certificate No. **IND 16.6053 U/Q**   Version No. **1**, Revision date: **20/01/2016**

Signed on behalf of BVCH SAS UK Branch

UKAS
MANAGEMENT
SYSTEMS

008

Certification body address: 66 Prescot Street, London E1 8HG, United Kingdom
Local office: Bureau Veritas Certification, P.O Box 9110, 211 Second Floor, 2nd of December Street,
Dune Center, Satwa, Dubai, UAE

Further clarifications regarding the scope of this certificate and the applicability of the management
system requirements may be obtained by consulting the organisation.
To check this certificate validity please call: 00971 4 3074400

AVALON Network Products

Intertek

ETL LISTED

Intertek

3933 US Route 11
Cortland, New York 13045 USA
Phone Number: (800) 345-3851
Fax Number: (607) 758-6637
Web: www.intertek.com

ETL Verified Certificate of Conformance Number: 102600457CRT-001

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Rendered to:

Avalon Networks (UK) Ltd.

68 Manning Gardens, Croydon, Surrey,

London CR0 7DU,   United Kingdom

Contact: Mr. Agilio Pereira

Product Tested	Category 6 U/UTP CM 24 AWG Modular Cord
Model(s) and or Brand Name:	Category 6 Patch Cord, part number not available (Length = 1 meter to 10 meters)
Standard(s)/Specification	ANSI/TIA-568-C.2 Category 6 with the applicable electrical transmission characteristics
Product labeling shall include:	ETL Verified to ANSI/TIA-568-C.2 Category 6 and the product model(s) and or brand name

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: May 31, 2016

Approved By: *Antoine Pelletier*

Antoine Pelletier, Project Engineer

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

AVALON
Network Products

INTERTEK

3933 US Route 11
Cortland, New York 13045 USA
Phone Number: (800) 345-3851
Fax Number: (607) 758-6637
Web: www.intertek.com

ETL LISTED
Intertek

ETL Verified Certificate of Conformance Number: 102604360CRT-001

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Rendered to:

Avalon Networks (UK) Ltd.

68 Manning Gardens, Croydon, Surrey,

London CR0 7DU, United Kingdom

Contact: Mr. Agilio Pereira

Product Tested:	4 pair, 23 AWG, UTP, CMR, Non-Plenum Riser, Horizontal (solid) Cable.
Model(s) and or Brand Name:	ANC6UPGY23-305MT
Standard(s)/Specification:	ANSI/TIA-568-C.2 and ISO/IEC 11801 Category 6 with the applicable electrical transmission characteristics
Jacket marking shall include:	ETL Verified to ANSI/TIA-568-C.2 and ISO/IEC 11801 Category 6

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: May 31, 2016

Approved By: *Antoine Pelletier*

Antoine Pelletier, Project Engineer

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

AVALON
Network Products

Intertek

3933 US Route 11
Cortland, New York 13045 USA
Phone Number: (800) 345-3851
Fax Number: (607) 758-6637
Web: www.intertek.com

ETL LISTED

Intertek

ETL Verified Certificate of Conformance Number: 102604343CRT-001

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Rendered to:

Avalon Networks (UK) Ltd.

68 Manning Gardens, Croydon, Surrey,

London CR0 7DU, United Kingdom

Contact: Mr. Agilio Pereira

Product Tested: 4 pair, 23 AWG, UTP, LSOH, Non-Plenum, Horizontal (solid) Cable.

Model(s) and or Brand Name: ANC6UPGY23-305MT

Standard(s)/Specification: ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Category 6 with the applicable electrical transmission characteristics

Jacket marking shall include: ETL Verified to ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Category 6

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: May 31, 2016

Approved By: *Antoine Pelletier*

Antoine Pelletier, Project Engineer

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

AVALON Network Products

Intertek

ETL LISTED
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3933 US Route 11
Cortland, New York 13045 USA
Phone Number: (800) 345-3851
Fax Number: (607) 758-6637
Web: www.intertek.com

ETL Verified Certificate of Conformance Number: 102799820CRT-001

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Rendered to:

Avalon Networks (UK) Ltd.

68 Manning Gardens, Croydon, Surrey,
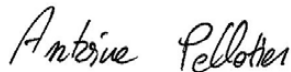
London CR0 7DU, United Kingdom

Contact: Mr. Agilio Pereira

Product Tested:	4 pair, 23 AWG, U/FTP, LSZH, Non-Plenum, Horizontal (solid) Cable.
Model(s) and or Brand Name:	ANC6AUPGY23-305MT
Standard(s)/Specification:	ANSI/TIA-568-C.2, ISO/IEC 11801 and IEC 61156-5 Category 6A with the applicable electrical transmission characteristics
Jacket marking shall include:	ETL Verified to ANSI/TIA-568-C.2, ISO/IEC 11801 and IEC 61156-5 Category 6A

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: November 03, 2016

Approved By: *Antoine Pelletier*

Antoine Pelletier, Project Engineer

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

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