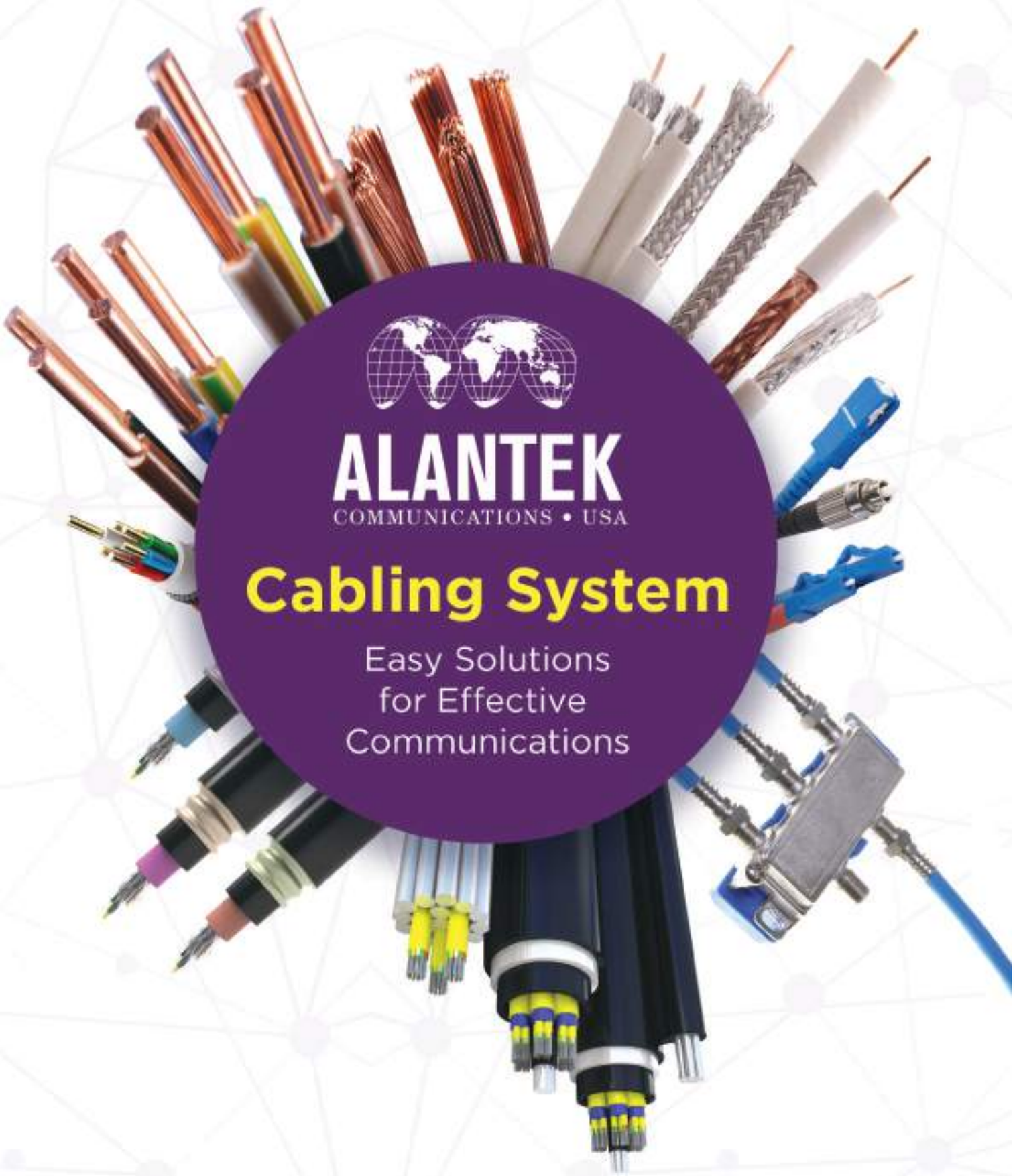

ALANTEK
COMMUNICATIONS • USA

Cabling System

Easy Solutions
for Effective
Communications

About Us

Founded in 1998 and headquartered in USA, ALANTEK COMMUNICATIONS strives to become a leading manufacturer of Fiber Optic products and LAN wiring systems. Our Key corporate values rests on positive and honest long-term relationship with value stakeholders - Customers, Suppliers and Employees. Through excellent management & organization, we seek to continuously improve all aspect of our Products & Services be it in Product R&D resulting in lower costs & higher quality or Customer Satisfaction and Quick Response Time. Our greatest reward is in Delighting our Customer - spurring mutual business growth.

Mission

To achieve in every job, the highest level of Customer Satisfaction possible. To achieve growth through Integrity, Perseverance and Diligence. To conduct ourselves Personally and Professionally, with an attitude of Respect, Gratitude and Willingness. To go the extra mile to achieve Greatness.

Products

We offer a diverse array of innovative and quality products, ranging from Fiber Optics to LAN wiring systems. The extensive fiber optic and LAN passive interconnect solutions is suitable for Telecommunication, Data Communication and CATV market. All passive components are warranted to be free from defects in craftsmanship for a period of (20) years from date of manufacture.

Customer Service Support

Our dedication to our customers goes far beyond providing consistently good quality products. We understand your ever changing needs and we ensure dedicated commitment to customer service, product development and fast response time. Our authorized distributors are knowledgeable cabling professionals. They are hand-pick by us to provide you with economical, prompt and efficient backup services.

Vision into the Future

We will invest heavily in technology and manufacturing capacity to support our quality product requirements for today, tomorrow and the future. With your support, we shall grow profitably together in pursuit of new product developments, new market expansion and new ventures.

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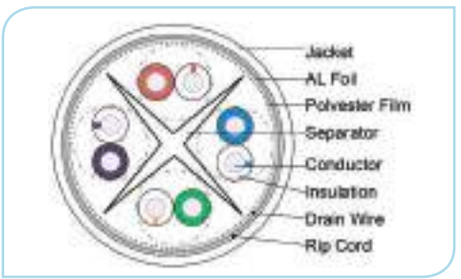
Structured Cabling Solution

CATEGORY 6A SOLUTIONS

Category 6A 4-Pair 23AWG F/UTP Cable



Description

Alantek Cat6A Twisted Pair Cable is designed to support high-bandwidth application up to 10Gigabit Ethernet. The cable is composed of 23 AWG bare solid copper conductors insulated with High Density Polyethylene (HDPE) insulation. The 4 twisted pairs are separated by a flexible PE separator, an additional layer of Aluminium foil covers the 4 pairs and is completed with an Outer Jacket.

Application

Horizontal wiring, suitable for application up to 10 Gigabit Ethernet. POE up to 90W.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173, UL 444

Physical Characteristics

	Conductor (x 4pair)	Conductor Insulation	Jacket	Drain Wire
Material	Solid Bare Copper	HDP	LSZH	Tinned Copper
Dimension	23AWG (0.57mm)	1.140 ± 0.05 mm (Dia)	7.5 ± 0.3 mm (Dia)	1/0.4mm

Electrical Characteristics

FREQ.	ATTN.	NEXT	RL	ACRF	PS NEXT	PSACRF	DELAY
MHz	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	ns/100m
1	2.1	74.3	20	67.8	72.3	64.8	570
4	3.8	65.3	23	55.8	63.3	52.8	552
8	5.3	60.8	24.5	49.7	58.8	46.7	547
10	5.9	59.3	25	47.8	57.3	44.8	545
16	7.5	56.2	25	43.7	54.2	40.7	543
20	8.4	54.8	25	41.8	52.8	38.8	542
25	9.4	53.3	24.3	39.8	51.3	36.8	541
31.25	10.5	51.9	23.6	37.9	49.9	34.9	540
62.50	15	47.4	21.5	31.9	45.4	28.9	539
100	19.1	44.3	20.1	27.8	42.3	24.8	538
200	27.6	39.8	18	21.8	37.8	18.8	537
250	31.1	38.3	17.3	19.8	36.3	16.8	536
300	34.3	37.1	16.8	18.3	35.1	15.3	536
400	40.1	35.3	15.9	15.8	33.3	12.8	536
500	45.3	33.8	15.2	13.8	31.8	10.8	536

Part #	Description
301-6AFU08-L3GY	Cat 6A 4-pairs 23AWG F/UTP Shielded, LSZH, Grey – 305m/reel
301-6AFU08-xyzz	*Substitute with below*

x : L=LSZH, 0=PVC, P=PE y : 3= 305m/Box, 5=500m/reel, 1=1000m/reel zz : colour (upon request)

Structured Cabling Solution

CATEGORY 6A SOLUTIONS

Category 6A Shielded Keystone Jack

Description

Alantek Cat 6A Jack is designed to provide superior performance and reliability. Its advance circuit design provides optimum signal quality, allowing it to exceed TIA/EIA, ISO (Category 6A) and 10 Gigabit Ethernet Performance standards.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173

Features

- Quick termination by Quick Crimp tool
- Slim, Modular and Low Profile design allow high density application
- IDC is configured at 180° to Jack to allow easy rear termination
- Support both T568A and T568B wiring

Part #	Description
302-2QX6AF-18AB	Cat 6A Shielded (Alloy) 180° Quick Crimp Keystone Jack
302-1005W2-F103	8 Position Quick Crimp Tool (for QX series modular jack)

Modular Keystone Shielded Blank Patch Panel

Part #	Description
302-201BF1-24BL	1U 24-Port Shielded Blank Patch Panel with label
302-201BF1-48BL	1U 48-Port Shielded Blank Patch Panel
302-201BF2-72BL	2U 72-Port Shielded Blank Patch Panel
302-2A1BF1-24BL	1U 24-Port Shielded Blank Angled Patch Panel
302-2A1BF2-72BL	2U 72-Port Shielded Blank Angled Patch Panel

Category 6A Shielded S/FTP 26AWG Molded Patch Cord, LSZH

Description

Alantek Cat6A S/FTP Patch Cord is designed to assure high performance. The patch cable is terminated in factory with 8P8C, 50u" gold plated RJ45 Plug. All Patch Cords are 100% tested in the factory to ensure 10 Gigabit Ethernet performances.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173

Features

- 10 Gigabit performance
- Comes in various colours

Part #	Description
302-4MSAxx-MLyy	xx meter, Cat 6A S/FTP shielded 4-Pairs Molded Patch Cords, LSZH

*PVC upon request

Available colours (yy): BL= Black , WH= White, RD= Red, GN= Green, BU= Blue, PR= Purple, OR= Orange, YL= Yellow, GY=Grey

Structured Cabling Solution

CATEGORY 6 SOLUTIONS

Category 6 4-Pair 23AWG U/UTP Cable

Description

Alantek Cat6 Twisted Pair Cable is designed to support high-bandwidth application up to 10Gigabit* Ethernet. The cable is composed of 23 AWG bare solid copper conductors insulated with High Density Polyethylene (HDPE) insulation. For the unshielded cable, the 4 twisted pairs are separated by a flexible PE separator and the cable is completed with an Outer Jacket. For the shielded cable, an additional layer of Aluminum Foil covers the 4 twisted pairs.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173, UL 444

U/UTP

F/UTP

Physical Characteristics

	Conductor (x 4pair)	Conductor Insulation	Jacket	Max Tensile Load (Installation):
Material	Solid Bare Copper	HDPE	PVC	
Dimension	23AWG (0.56mm)	1.03 ± 0.01 mm (Dia)	6.4 ± 0.2 mm (Dia)	100 N

Electrical Characteristics

FREQ.	ATTN.	NEXT	ACR	RL	PS NEXT	PS ACR	ELFEXT	PS ELFEXT
MHz	dB/100m	dB	dB/100m	dB	dB	dB/100m	dB	dB
1.0	2.0	74.3	72.3	20.0	72.3	70.3	67.8	64.8
4.0	3.8	65.3	61.5	23.0	63.3	59.5	55.8	52.8
8.0	5.3	60.8	55.5	24.5	58.8	53.5	49.7	46.7
10.0	6.0	59.3	53.3	25.0	57.3	51.3	47.8	44.8
16.0	7.6	56.2	48.6	25.0	54.2	46.6	43.7	40.7
20.0	8.5	54.8	46.3	25.0	52.8	44.3	41.8	38.8
25.0	9.5	53.3	43.8	24.3	51.3	41.8	39.8	36.8
31.25	10.7	51.9	41.2	23.6	49.9	39.2	37.9	34.9
62.5	15.4	47.4	32.0	21.5	45.4	30.0	31.9	28.9
100.0	19.8	44.3	24.5	20.1	42.3	22.5	27.8	24.8
200.0	29.0	39.8	10.8	18.0	37.8	8.8	21.8	18.8
250.0	32.8	38.3	5.5	17.3	36.3	3.5	19.8	16.8

Part #	Description
301-6008LG-03GY	Cat 6 4-Pair 23AWG U/UTP Unshielded Cable, PVC, Grey - 305m/reel
301-6008LG-03BU	Cat 6 4-Pair 23AWG U/UTP Unshielded Cable, PVC, Blue - 305m/reel
301-60F8LG-03GY	Cat 6 4-Pair 23AWG F/UTP Shielded Cable, PVC, Grey - 305m/reel
-xyzz	Substitute with below

x : L=LSZH, 0=PVC, P=PE y : 3= 305m/Box, 5=500m/reel, 1=1000m/reel zz : colour (upon request)

CATEGORY 6 SOLUTIONS

Category 6 4-Pair 24AWG U/UTP Cable

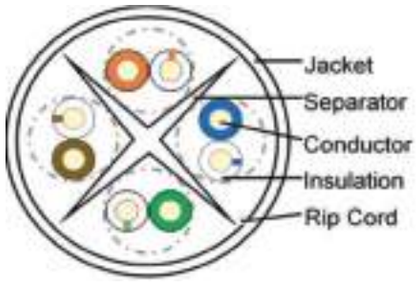
Description

Alantek Cat6 24AWG Twisted Pair Cable is designed to support Cat6 Link and Channel performance with internationally defined Physical and Electrical performance up to 250 MHz. For the Shielded version, an overall layer of Aluminum Foil covers the 4 twisted pairs

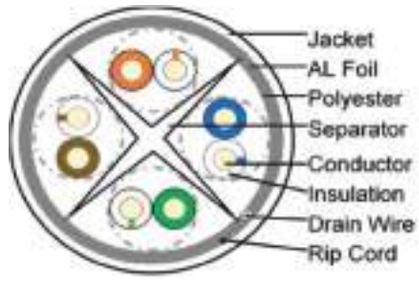
Standards

ISO/IEC11801, TIA/EIA 568-C & EN50173, UL 444

U/UTP



F/UTP



Physical Characteristics

Description	Conductor	Insulation	Jacket	Max Tensile Load (Installation)
Material	Solid Bare Copper	Polyethylene	PVC, LSZH	
Dimension	24AWG (0.515mm)	0.94 ± 0.01 mm (Dia)	6.0 ± 0.5 mm (Dia)	80 N

Electrical Characteristics

FREQ.	ATTN.	NEXT	ACR	RL	PS NEXT	PS ACR	ELFEXT	PS ELFEXT
MHz	dB/100m	dB/100m	dB/100m	dB/100m	dB	dB/100m	dB/100m	dB/100m
1.0	2.0	74.3	72.3	20.0	72.3	70.3	67.8	64.8
4.0	3.8	65.3	61.5	23.0	63.3	59.5	55.8	52.8
10.0	6.0	59.3	53.3	25.0	57.3	51.3	47.8	44.8
16.0	7.6	56.2	48.6	25.0	54.2	46.6	43.7	40.7
20.0	8.5	54.8	46.3	25.0	52.8	44.3	41.8	38.8
31.3	10.7	51.9	41.2	23.6	49.9	39.2	37.9	34.9
62.5	15.4	47.4	32.0	21.5	45.4	30.0	31.9	28.9
100.0	19.8	44.3	24.5	20.1	42.3	22.5	27.8	24.8
200.0	29.0	39.8	10.8	18.0	37.8	8.8	21.8	18.8
250.0	32.8	38.3	5.5	17.3	36.3	3.5	19.8	16.8

Ordering Informations

Part Number	Description
301-600851-XXYY	Cat6 4-Pair 24AWG U/UTP Unshielded Twisted Cable
301-60F851-XXYY	Cat6 4-Pair 24AWG F/UTP Shielded Twisted Cable
XX : Cable Put-up (03 = 305m/Box, 05 = 500m/Reel, 01 = 1000m/Reel)	
YY : Jacket Color (GY = Grey LG = Light Grey, WH = White, BU = Blue)	

CATEGORY 6 SOLUTIONS

Category 6 Unshielded Patch Panel

Description

Alantek Cat6 Unshielded Patch Panel is a rack mountable 24 ports RJ45 jack panel. The Dual IDC connection on the rear of the panel support two type of termination. The front of the panel has transparent plastic holders for the port identification labels. For better patch cord management, a management panel is attached to the front of the panel.

Shielded Cat 6 Dual IDC patch panel is available for environment that has high Electromagnetic Interference. The Shielded Cat 6 panel has Silk screen labels at the front.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173, UL 1863

Features

- Dual IDC allows both 110 and Krone tools to be used for termination
- IDC accept 22-24 AWG solid wire
- Support both T568A and T568B wiring
- Support up to 10 Gigabit* Ethernet application

Electrical Characteristics

IDC	Current Rating	Voltage Rating	Contact Resistance	DC Resistance	Insulation Resistance	Dielectric Withstand Voltage
22-24 AWG Solid Wire	1.5 amp (max)	150 V	20 mΩ	0.1 Ω (max)	500 mΩ	1000 VAC @ RMS, 60 Hz 1 min

Mechanical Characteristics

IDC Termination	IDC Punch Down Cycle	Pull force	Housing	PCB	RJ45 Jack	RJ45 Jack Insertion Cycle
Dual (110 & Krone)	> 250 cycles (min.)	20lb (89N)	PC UL94V-0	FR4 1.6mm (0.4") thickness	8P8C 50u" gold plated	> 2000 cycles (min)

Part #	Description
302-201601-24AB	1U Cat 6 24-port Unshielded Dual IDC Patch Panel c/w Front Cable Management
302-2A1601-24AB	1U Cat 6 24-port Unshielded Dual IDC Angled Patch Panel
302-201601-48AB	2U Cat 6 48-port Unshielded Dual IDC Patch Panel
302-201BLN-24BL	1U 24-port Unshielded Blank Patch Panel
302-201BU1-48BL	1U 48-port Unshielded Blank Patch Panel
302-2016F1-2400	1U Cat 6 24-port Shielded Dual IDC Patch Panel
For more Shielded panel solutions, please refer to the modular blank panel from Cat6A series	

Structured Cabling Solution

CATEGORY 6 SOLUTIONS

Category 6 Keystone Jack

Description

Alantek Cat6 Slim Line 180° Quick Crimp Keystone Jack are designed to provide superior performance, reliability and fast termination. It advanced circuit design provide optimum signal quality, allowing it to exceed TIA/EIA and ISO Category 6 performance standards. The Slim design offers a smaller footprint maximizing space in confined area.

A Shielded (Alloy) 180° Degree Dual IDC Quick Crimp Keystone Jack is also available for shielded application.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, TIA/EIA TSB-40, EN50173,
UL 1863, UL94V-0

Features

- Slim, Modular and Low Profile design allow high density application
- IDC is configured at 180° to Jack to allow easy rear termination and allow quick termination by Quick Crimp tool.
- Support both T568A and T568B wiring
- Support 10Base-T to Gigabit Ethernet application

Electrical & Mechanical Characteristics

IDC	Insulation Resistance	Dielectric Withstand Voltage
Phosphor Bronze Alloy with 100 micron Sn Alloy	500 mΩ @ 100V DC	1000 VAC @ RMS, 60 Hz 1 min
Accept 22-24 AWG Solid Wire		

RJ45 Contact	Housing	
Phosphor Bronze Alloy plated with 50 micron gold	PC UL94V-0	+ Metal Alloy for shielded
> 750 Cycles Insertion and Extraction life	High Impact, Fire retardant plastic	

Part #	Description
302-2QX618-WHAB	Cat 6 Unshielded 180° Quick Crimp Keystone Jack
302-2QX6F1-18AB	Cat 6 Shielded 180° Quick Crimp Keystone Jack
302-1005W2-F103	8 Position Quick Crimp Tool (for QX series Modular Jack)

Structured Cabling Solution

CATEGORY 5E SOLUTIONS

Category 5E Cable

Description

Alantek Cat5E Twisted Pair Cable is designed to support high-bandwidth application up to 1 Gigabit Ethernet. The cable is composed of 24 AWG bare solid copper conductors insulated with High Density Polyethylene (HDPE) insulation. For the unshielded cable, the insulated conductors are twisted into pairs and complete with an Outer Jacket. For the shielded cable, an additional layer of Aluminium laminated foil covers the 4 pairs of insulated conductor.

Application

Horizontal wiring, suitable for application up to 1 Gigabit Ethernet.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173, UL 444

Physical Characteristics

	Conductor (x 4pair)	Conductor Insulation	Jacket	Max Tensile Load (Installation):
Material	Solid Bare Copper	HDPE	PVC	
Dimension	24AWG (0.50mm ± 0.02 mm)	0.92 ± 0.02 mm (Dia)	0.52 ± 0.02 mm (Dia)	100 N

Electrical Characteristics

FREQ.	ATTN.	NEXT	ACR	RL	PS NEXT	PS ACR	ELFEXT	PS ELFEXT
MHz	dB/100m	dB	dB/100m	dB	dB	dB/100m	dB	dB
1.0	2.0	67.0	65.0	20.0	65.0	63.0	69.0	66.0
4.0	4.0	58.0	54.0	23.0	56.0	52.0	56.8	53.8
10.0	6.3	52.0	45.7	25.0	50.0	43.7	49.0	46.0
16.0	8.0	48.9	40.9	25.0	46.9	38.9	44.8	41.8
20.0	9.0	47.5	38.5	25.0	45.5	36.5	42.5	39.5
31.25	11.4	44.6	33.2	23.6	42.6	31.6	39.0	36.0
62.5	16.5	40.1	23.6	21.5	38.1	21.6	32.9	29.9
100.0	21.3	37.0	15.7	20.1	35.0	13.7	29.0	26.0

* Electrical Characteristics are based on Cat5E 4-pairs cable

Part #	Description
301-10002E-03GY	Cat 5E 2-pair 24AWG U/UTP Unshielded Cable, PVC, Grey - 305m/box
301-10008E-03GY	Cat 5E 4-pair 24AWG U/UTP Unshielded Cable, PVC, Grey - 305m/box
301-10008E-05GY	Cat 5E 4-pair 24AWG U/UTP Unshielded Cable, PVC, Grey - 500m/reel
301-10008E-01GY	Cat 5E 4-pair 24AWG U/UTP Unshielded Cable, PVC, Grey - 1000m/reel
301-10F02E-03GY	Cat 5E 2-pair 24AWG F/UTP Shielded Cable, PVC, 305m/reel
301-10F08E-03GY	Cat 5E 4-pair 24AWG F/UTP Shielded Cable, PVC, 305m/reel
-xyzz	Substitute with below

x : L=LSZH, 0=PVC, P=PE y : 3= 305m/Box, 5=500m/reel, 1=1000m/reel zz : colour (upon request)

Structured Cabling Solution

CATEGORY 5E SOLUTIONS

Category 5E Patch Panel

Description

Alantek Cat5E Unshielded Patch Panel is a rack mountable RJ45 jack panel. The 1U type has 24 RJ45 ports and the 2U type has 48 RJ45 ports. The Dual IDC connection on the rear of the panel support two type of termination. The front of the panel has transparent plastic holders for the port identification labels.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173, UL 1863

Features

- Support both T568A and T568B wiring
- Support up to 1 Gigabit Ethernet application

Electrical Characteristics

IDC	Current Rating	Voltage Rating	Contact Resistance	DC Resistance	Insulation Resistance	Dielectric Withstand Voltage
22-26 AWG Solid Wire	1.5 amp (max)	150 V	20 mΩ	0.1 Ω (max)	500 mΩ	1000 VAC @ RMS, 60 Hz 1 min

Mechanical Characteristics

IDC Termination	IDC Punch Down Cycle	Pull force	Housing	PCB	RJ45 Jack	RJ45 Jack Insertion Cycle
Dual (110 & Krone)	> 250 cycles (min.)	20lb (89N)	PC UL94V-0	FR4 1.6mm (0.4") thickness	8P8C 50u" gold plated	750 cycles 20 cycle/min

Part #	Description
302-201001-2400	1U 24-Port Cat 5E Unshielded Dual IDC Patch Panel with Label
302-201002-4800	2U 48-Port Cat 5E Unshielded Dual IDC Patch Panel with Label
302-201001-4800	1U 48-Port Cat 5E Unshielded Dual IDC Patch Panel
302-201BLN-24BL	1U 24-port Unshielded Blank Patch Panel
302-201BU1-48BL	1U 48-port Unshielded Blank Patch Panel
302-201101-2400	1U 24-port Cat 5E Shielded Dual IDC Patch Panel
For more Shielded panel solutions, please refer to the modular blank panel from Cat6A series	

CATEGORY 5E SOLUTIONS

Category 5E Keystone Jack

Description

Alantek Cat5e Slim Line 180° Dual IDC Keystone Jack is designed to provide superior performance and reliability. Its advanced circuit design provide optimum signal quality allowing it to exceed TIA/EIA and ISO Category 5E performance standards. The Slim design offer a smaller footprint maximizing space in confined area.

A 180° Shielded Dual IDC Jack is available for shielded application.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173

Features

- Dual IDC allows both 110 and Krone tools to be used for termination
- Support both T568A and T568B wiring
- Support Gigabit Ethernet application

Electrical & Mechanical Characteristics

IDC	RJ45 Contact	Housing
Phosphor Bronze alloy with Tin-Nickel plating	Phosphor Bronze Alloy plated with gold	PC UL94V-0
Accept 22-24 AWG Solid Wire	> 750 Cycles Insertion and Extraction life	High Impact, Fire retardant plastic

Part #	Description
302-202018-WHAB	Cat 5e Unshielded Slim Line 180° Dual IDC Keystone Jack
302-2TL018-WHAB	Cat 5e Unshielded Toolless Keystone Jack
302-202F01-00AB	Cat 5e Shielded Dual IDC Keystone Jack

Structured Cabling Solution

24 AWG STRANDED PATCH CORD

Description

Alantek Patch Cord is designed to assure high performance over longer distances. The patch cable is composed of 4-pairs, 24 AWG Stranded Conductors and an outer PVC Jacket. The patch cable is terminated in factory with 8P8C, 50u" gold plated RJ45 Plugs. A Molded Boot provides strain relief for the patch cable. All Patch Cords are 100% tested in the factory to ensure Gigabit performance.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173

Features

- 24 AWG Stranded Copper Conductors
- Comes in various colours
- 100% Factory Terminated
- 100% Factory Tested

Characteristics

- RJ45 Plug: 8P8C 50u" golded plated
- Insulation Resistance: 500 mΩ (min.)
- Contact Resistance: 20 mΩ (max.)
- Current Rating: 1.5 amps
- DC Resistance: 0.1 Ω (max.)
- Withstanding Voltage: 1000 VAC RMS @ 60Hz/1min

Copper Patch Cords				Pairs	Boot	Cable Type	Length		Catgegory		Unit	Fire Rating	Colour	
3	0	2	-	4	a	b	x	x	c	-	u	z	y	y
					M - Molded B - Rubber	U - U/UTP F - F/UTP S - S/FTP B - U/FTP D - SF/UTP	00-99		3 - Cat3 E - Cat5e 6 - Cat6 1 - E1/T1		F- Feet M - Meter	T - PVC L - LSZH	BU - Blue WH - White YL - Yellow RD - Red GN - Green OR - Orange PK - Pink PR - Purple B: - Black GY - Grey	

Note : Cat 5e and Cat 6 patch cords are traditonally rated in feet. Only change to meter if exceed 99 feet. Please check with sales.

Part #	Description
302-4MUxx6-FTyy	Cat 6 U/UTP Patch Cord, molded boot, PVC, xx ft
302-4MFxx6-FTyy	Cat 6 F/UTP Patch Cord, molded boot, PVC, , xx ft
302-4MUxxE-FTyy	Cat 5E U/UTP Patch Cord, molded boot, PVC, xx ft
302-4MFxxE-FTyy	Cat 5E F/UTP Patch Cord, molded boot, PVC, xx ft

*LSZH upon request

KEYSTONE IN-LINE COUPLER

Description

Alantek In-Line coupler are designed to provide superior performance, reliability and fast connection. It's advanced circuit design provide optimum signal quality, allowing it to exceed TIA/EIA and ISO performance standards.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173

Part #	Description
302-2026AF-CPAB	Cat 6A Shielded In-Line Keystone Coupler
302-202618-CPAB	Cat 6 Unshielded In-Line Keystone Coupler
302-2026F1-CPAB	Cat 6 Shielded In-Line Keystone Coupler

Note : for Warranty application, please seek approval before design/installation

PLUG AND BOOTS

Description

Alantek Cat 6A, 6, plugs is designed with gold plating on contacts suitable for termination on 22 AWG to 24 AWG solid and stranded cables. Colour boots are available to provide identification and strain relief.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173

Part #	Description
302-203FA6-1550	Cat 6A Shielded RJ45 Plug 8P8C 1.5mm 50µm
302-203F06-1250	Cat 6 Shielded RJ45 Plug 8P8C 1.2mm 50µm
302-09110T-75xx	7.5mm RJ45 Rubber Boot, xx (for 1.2-1.5)
302-203006-0050	Cat 6 RJ45 Plug 8P8C 50µm
302-20300E-0050	Cat 5e RJ45 Plug 8P8C 50µm
302-203F0E-0050	Cat 5e Shielded RJ45 Plug 8P8C 50µm
302-091100-00xx	RJ45 Rubber Boot (0.55-0.65mm), xx
302-203003-0003	Cat3 RJ11 Plug, 6P4C

Substitute : xx with BL=Black, WH=White, RD=Red, YL=Yellow, BU=Blue, GN=Green, PK=Pink, PR=Purple, OR=Orange, TN=Tan(grey)

Note : Plugs termination do not qualify for Alantek 25years warranty program.

Structured Cabling Solution

FACE PLATE AND SURFACE MOUNT BOX

Description

Alantek flush mount Face Plates is available in UK or US style. The Angle Face Plate is available in UK style only. Surface Mount Box are available from 1-port to 6-port.

Part #	Description
302-203201-00WH	1-port US Style Face Plate, White
302-203202-00WH	2-port US Style Face Plate, White
302-203204-00WH	4-port US Style Face Plate, White
302-203206-00WH	6-port US Style Face Plate, White
302-203201-SHWH	1-port US Style Shuttered Face Plate, White
302-203202-SHWH	2-port US Style Shuttered Face Plate, White
302-203204-SHWH	4-port US Style Shuttered Face Plate, White
302-203INS-00WH	Blank Insert for US Style Face Plate, White
302-2B3221-SHWH	1-port UK Style Shuttered Face Plate, White
302-2B3222-SHWH	2-port UK Style Shuttered Face Plate, White
302-203224-SHWH	4-port UK Style Shuttered Face Plate, White
302-2BA221-SHWH	1-port UK Style Angle Shuttered Face Plate, White
302-2BA222-SHWH	2-port UK Style Angle Shuttered Face Plate, White
302-SMB001-SHWH	1-port Shuttered Surface Mount Box, White
302-SMB002-SHWH	2-port Shuttered Surface Mount Box, White
302-SMB004-SHWH	4-port Shuttered Surface Mount Box, White
302-SMB006-SHWH	6-port Shuttered Surface Mount Box, White

CABLE MANAGEMENT PANEL

Description

Alantek cable management panel is a made of extruded aluminum, thus is strong, light and do not warp under stress. The metallic structure improve EMC and performance of the cables.

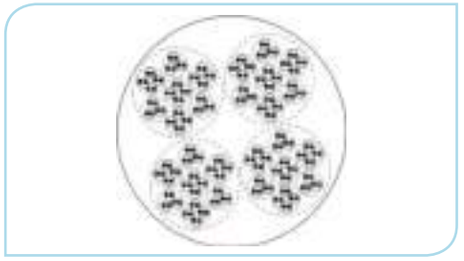
Part #	Description
302-201ACM-1UBL	1U Aluminum Cable Management Panel with Front Cover

Structured Cabling Solution

MULTI-PAIR UNSHIELDED COPPER CABLE

Description

Alantek Multipair cable is composed of 24 AWG solid copper conductors insulated with colour coded High Density Polyethylene (HDPE). The cable is completed with a PVC Jacket. It is available in 2-pairs, 5-pairs, multiple of 10-pairs and 25-pairs.



Application

Horizontal or Vertical Backbone wiring suitable for Voice and LAN application.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173

	Conductor	Conductor Insulation	Jacket	Pairs in Bundle
Material	Solid Bare Copper	HDPE	PVC (Grey)	Wrapped in PE Tape
Dimension	24AWG (0.475mm)	0.89 ± 0.03 mm (Dia)	(Dia) ± 0.5 mm 5-pairs : 5.7 mm 10-pairs : 7.6 mm 20-pairs : 10.8 mm 25-pairs : 12.4 mm 30-pairs : 12.8 mm 50-pairs : 15.4 mm 80-pairs : 18.2 mm 100-pairs : 20.0 mm	(5-pair) (10-pair) 2 x (10-pair) (25-pair) 3 x (10-pair) 2 x (25-pair) 8 x (10-pair) 4 x (25-pair)

Color code

Pair	Colour	Pair	Colour	Pair	Colour	Pair	Colour	Pair	Colour
1	White/Blue	6	Red/Blue	11	Black/Blue	16	Yellow/Blue	21	Purple/Blue
2	White/Orange	7	Red/Orange	12	Black/Orange	17	Yellow/Orange	22	Purple/Orange
3	White/Green	8	Red/Green	13	Black/Green	18	Yellow/Green	23	Purple/Green
4	White/Brown	9	Red/Brown	14	Black/Brown	19	Yellow/Brown	24	Purple/Brown
5	White/Grey	10	Red/Grey	15	Black/Grey	20	Yellow/Grey	25	Purple/Grey

Part #	Description
301-10025E-05GY	Cat 5e Unshielded Twisted Pair, 25-pairs Solid Cable, PVC, Grey - 500m
301-10050E-05GY	Cat 5e Unshielded Twisted Pair, 50-pairs Solid Cable, PVC, Grey - 500m
301-100255-05GY	Cat 5 Unshielded Twisted Pair, 25-pairs Solid Cable, PVC, Grey - 500m
301-100505-05GY	Cat 5 Unshielded Twisted Pair, 50-pairs Solid Cable, PVC, Grey - 500m
301-101005-05GY	Cat 5 Unshielded Twisted Pair, 100-pairs Solid Cable, PVC, Grey - 500m
301-100023-05GY	Cat 3 Unshielded Twisted Pair, 2-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
301-100053-05GY	Cat 3 Unshielded Twisted Pair, 5-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
301-100103-05GY	Cat 3 Unshielded Twisted Pair, 10-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
301-100203-05GY	Cat 3 Unshielded Twisted Pair, 20-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
301-100253-05GY	Cat 3 Unshielded Twisted Pair, 25-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
301-100303-05GY	Cat 3 Unshielded Twisted Pair, 30-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
301-100503-05GY	Cat 3 Unshielded Twisted Pair, 50-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
301-100803-05GY	Cat 3 Unshielded Twisted Pair, 80-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
301-101003-05GY	Cat 3 Unshielded Twisted Pair, 100-pairs Solid Cable, Voice Grade, PVC, Grey - 500m
-xyzz	Substitute with below

x : L=LSZH, 0=PVC, P=PE y : 3= 305m/Box, 5=500m/reel, 1=1000m/reel zz : colour (upon request)

Gel-Filled are available upon request

Structured Cabling Solution

110 WIRING BLOCK AND ACCESSORIES

Description

Alantek Wiring Block is a fire retardant molded plastic block with 110 connection. The blocks can accommodate 22AWG to 26AWG wires and can be mounted directly on wall surfaces. There are two types of Wiring Blocks. One comes with legs to provide space behind the block for routing the incoming cables. The other is built without legs and is used where depth is restrictive.

Application

Suitable for Voice application.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173

Part #	Description
302-5110FT-L050	50-pairs, Voice 110 Block with Legs. Including connecting blocks, labels and holders. (5-pair block)
302-5110FT-L100	100-pairs, Voice 110 Block with Legs. Including connecting blocks, labels and holders. (5-pair block)
302-5110FT-0050	50-pairs, Voice 110 Block. Including connecting blocks, labels and holders. (5-pair block)
302-5110FT-0100	100-pairs, Voice 110 Block. Including connecting blocks, labels and holders. (5-pair block)
302-5110RN-0100	100-pairs, Voice 1U Rack Mount 110 Block. Including connecting blocks, labels and holders. (5-pair block)
302-511LCH-0000	Label and transparent holder
302-511LR4-0000	4-pairs 110 Connecting Block
302-511LR5-0000	5-pairs 110 Connecting Block
301-XC051P-BUYL	1-pair Cross-Connect Solid Copper Wire (Blue/Yellow)
301-XC052P-BUOR	2-pair Cross-Connect Solid Copper Wire (Blue/White, Orange/White)

MISCELLANEOUS TOOLS

Part #	Description
302-1005W2-F103	8 Position Quick Crimp Tool (for QX series Modular Jack)
302-094591-0000	Shielded Plug Crimper (for 1.2-1.5mm O.D. wire)
302-092R45-R000	Modular Crimp Tool For RJ45/RJ11 Plug, Ratchet Type
302-092132-0110	1-pair 110 Impact Tool with Hook & Spudger
302-1002PA-0000	Palm Termination Station
302-09200A-0066	S66 Blade for 1-pair Impact Tool
302-09200B-0000	110 Blade for 1-pair Impact Tool
302-092315-0100	5-Pair 110 Impact Tool with Blade
302-09200D-0000	Disposable Impact Tool with round cable cutter
302-251451-0000	Continuity Wire Map Tester for UTP/FTP and BNC

Structured Cabling Solution

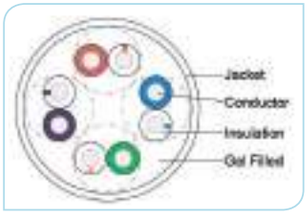
OUTDOOR CATEGORY CABLE

Description

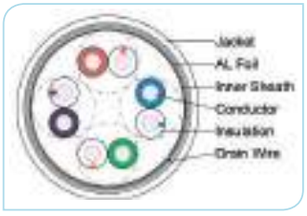
Alantek Outdoor Category 5e/6 Cable are designed to support high-bandwidth application in harsh environment whereby water is a constant factor. Each cable is gel filled to ensure zero water penetration. The polyethylene (PE) Jacket is UV resistant, suitable for installation whereby the cable is expose to sunlight.

Standards

ANSI/TIA-568-C.2, ISO/IEC 11801, EN 50173



Cat 5e U/UTP



Cat 5e F/UTP

Cat 6 U/UTP

Cat 6 F/UTP

Physical Characteristics

		CAT 5E U/UTP	CAT 5E F/UTP	CAT 6 U/UTP	CAT 6 F/UTP
Conductor (x 4pair)		24 AWGw	24 AWG	23 AWG	23 AWG
Conductor Insulation	Thickness	PE, 0.22mm	PE, 0.22mm	HDPE, 0.33mm	HDPE, 0.33mm
	Diameter	0.9mm ±0.02	0.9mm ±0.02	1.03mm ±0.02	1.03mm ±0.02
Jacket	Thickness	PE, 0.50mm	PE, 0.50mm	PE, 0.55mm	PE, 0.5mm
	Diameter	5.8mm ±0.3	6.9mm ±0.3	6.3mm ±0.3	8.5mm ±0.5
Operating Temperature		-15 to 60°C			

Part #	Description
301-1J008E-P3BL	Outdoor Gel-Filled Cat 5E Unshielded Twisted Pair, 4-pairs Solid Cable, PE, Black - 305m/reel
301-10F08E-P3BL-D000	Outdoor Double Jacket Cat 5E Shielded Twisted Pair, 4-pairs Solid Cable, PE, Black - 305m/reel
301-6J08LG-P3BL	Outdoor Gel-Filled Cat 6 Unshielded Twisted Pair, 4-pairs Solid Cable, PE, Black - 305m/reel
301-60F08E-P3BL-D000	Outdoor Double Jacket Cat 6 Shielded Twisted Pair, 4-pairs Solid Cable, PE, Black - 305m/reel
-xyzz	Substitute with below

x : L=LSZH, P=PE y : 3= 305m/Box, 5=500m/reel, 1=1000m/reel zz : colour (upon request)

Fiber Optic Solution

ALANTEK SINGLEMODE AND MULTIMODE FIBER

Description

ALANTEK G.652D Enhanced Single Mode Fiber (Low Water Peak SM Fiber)
By suppressing the water peak that occurs near 1383 nm in conventional G652 single mode fiber due to the accumulation of OH-ions absorption, ALANTEK enhanced G652D fiber is able to provide improved transmission throughout the entire wavelength window of 1260 nm to 1625 nm, supporting CWDM to DWDM. Low Polarization Mode Dispersion (PMD) which extends distance performance, reducing regeneration costs.

ALANTEK 50µm or 62.5µm, 125µm cladding diameter Multimode Fiber is comprehensively optimized for performance at 850nm and 1300nm operating wavelengths. Due to the low attenuation and high bandwidth, Alantek 50/125 µm and 62.5 µm multimode fiber can be widely used in local area networks, video and data services. It's specially suited to 10G Ethernet (IEEE 802.3) using light emitting diode (LED) or VCSEL light sources.

Standards

ANSI/TIA 568-C.3, ISO 11801, IEEE 802.3, ITU Recommendations

Optical Characteristics

		SM G657.A 9/125µm	SM G652.D 9/125µm	OM4 50/125 µm	OM3 50/125 µm	OM2 50/125 µm	OM1 62.5/125 µm
Attenuation (+ 20 °C)	@ 850 nm	-	-	≤ 2.4 dB/km	≤ 2.5 dB/km	≤ 2.4 dB/km	≤ 2.8 dB/km
	@ 1300 nm	-	-	≤ 0.7 dB/km	≤ 0.7 dB/km	≤ 0.6 dB/km	≤ 0.6 dB/km
	@ 1310 nm	≤ 0.35 dB/km	≤ 0.34 dB/km	-	-	-	-
	@ 1550 nm	≤ 0.22 dB/km	≤ 0.20 dB/km	-	-	-	-
Bandwidth (Class B)	@ 850 nm	-	-	≥ 3500 MHz-km	≥ 1500 MHz-km	≥ 500 MHz-km	≥ 200 MHz-km
	@ 1300 nm	-	-	≥ 500 MHz-km	≥ 500 MHz-km	≥ 500 MHz-km	≥ 600 MHz-km
Effective Modal bandwidth	@ 850 nm	-	-	≥4700	≥2000	-	-
PMD (Typical)	ps/√km	0.04	0.04	-	-	-	-

FIBER OPTIC STANDARDS

Tight Buffer Fiber Colour

Fiber No.	1	2	3	4	5	6	7	8	9	10	11	12
Colours	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
Fiber No.	13	14	15	16	17	18	19	20	21	22	23	24
Colours	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Sub-Unit/Tubes Colour

Unit No.	1	2	3	4	5	6	7	8	9	10	11	12
Colours	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
Unit No.	13	14	15	16	17	18	19	20	21	22	23	24
Colours	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

Minimum Bent Radius

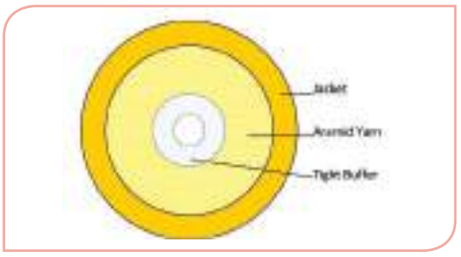
	During Installation (Short term / Dynamic)	Installed (Long term / Static)
Outside Plant Cable	20x cable diameter	10x cable diameter
Indoor Premise Cable	20x cable diameter	10x cable diameter

All Alantek fiber optic cable will applied to the above table, unless stated otherwise.

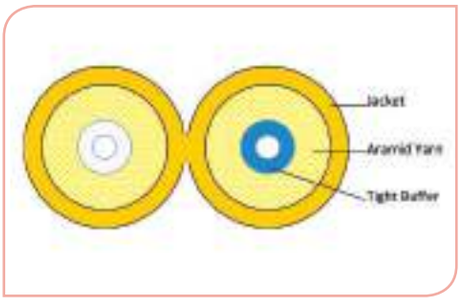
Fiber Optic Solution

FIBER CORDAGE

Description
The fiber, either single mode or multimode type, are 900µm tight buffered fiber. A layer of Aramid yarn is applied around the tight buffer fiber as strength member. The Simplex cordage is completed with a PVC Jacket while the Duplex cordage is completed with a figure-8 PVC jacket.



Application
This cable is suitable for Indoor jumper or interconnect between instruments and communication equipment.



Standards
TIA/EIA 568-C, ISO 11801, IEEE 802.3, ITU Recommendations

Characteristics
- Accurate fiber excess length ensures good mechanical and temperature performance
- Low induced attenuation within the operating temperature range

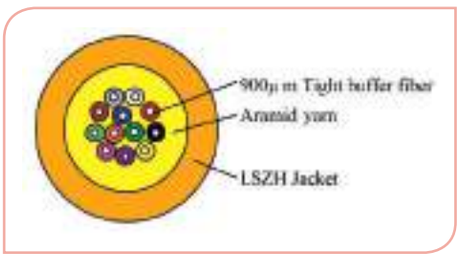
Part #	Description
306-772001-a0yy	SM 9/125 µm Simplex Single Mode Fiber Optic Cordage, Yellow
4XG-552001-a0yy	OM4 50/125 µm Simplex Multimode Fiber Optic Cordage, Violet
3XG-552001-a0yy	OM3 50/125 µm Simplex Multimode Fiber Optic Cordage, Aqua
306-552001-a0yy	OM2 50/125 µm Simplex Multimode Fiber Optic Cordage, Orange
306-662001-a0yy	OM1 62.5/125 µm Simplex Multimode Fiber Optic Cordage, Orange
306-772002-a0yy	SM 9/125 µm Duplex SingleMode Fiber Optic Cordage, Yellow
4XG-552002-a0yy	OM4 50/125µm Duplex Multimode Fiber Optic Cordage, Violet
3XG-552002-a0yy	OM3 50/125µm Duplex Multimode Fiber Optic Cordage, Aqua
306-552002-a0yy	OM2 50/125 µm Duplex Multimode Fiber Optic Cordage, Orange
306-662002-a0yy	OM1 62.5/125 µm Duplex Multimode Fiber Optic Cordage, Orange

Substitute : yy = 16 (Ø1.6mm), 20 (Ø2.0mm), 28 (Ø2.8mm)
Other diameter can be requested
*-a000, a = production code, subjected to change upon shipping

Fiber Optic Solution

INDOOR DISTRIBUTION FIBER OPTIC CABLE

Description
The fiber, either single mode or multimode type, are 900µm Tight buffer fiber. A layer of Aramid yarn is applied around the tight buffer fiber as strength member. The cable is completed with a PVC Jacket (OFNR).



Application
This cable is suitable for Indoor Distribution in Riser or Fiber-to-the-Desk.

Standards
TIA/EIA 568-C, ISO 11801, IEEE 802.3, ITU Recommendations

Characteristics
- Accurate fiber excess length ensures good mechanical and temperature performance
- Low induced attenuation within the operating temperature range

Cable Properties

Fiber Count	Fiber Diameter, µm	Cable Diameter, mm	Cable Weight, kg/km
2	900 ± 50	4.0 ± 0.25	14
4	900 ± 50	4.8 ± 0.25	18
6	900 ± 50	5.1 ± 0.25	23
8	900 ± 50	5.6 ± 0.25	31
10	900 ± 50	5.8 ± 0.25	34
12	900 ± 50	6.2 ± 0.25	36
24	900 ± 50	8.1 ± 0.30	53

Physical Characteristics

Tensile Strength, N	Long Term	200
	Short Term	600
Crush Resistance, N/100 mm	Long Term	300
	Short Term	1000
Operating Temperature	-20°C to +60°C	
Storage Temperature	-20°C to +60°C	

Part #	Description
306-7730xx-a000	SM 9/125 µm Single Mode Indoor Distribution Fiber Optic Cable, Yellow
4XG-5530xx-a000	OM4 50/125 µm Multimode Indoor Distribution Fiber Optic Cable, Violet
3XG-5530xx-a000	OM3 50/125 µm Multimode Indoor Distribution Fiber Optic Cable, Aqua
306-5530xx-a000	OM2 50/125 µm Multimode Indoor Distribution Fiber Optic Cable, Orange
306-6630xx-a000	OM1 62.5/125 µm Multimode Indoor Distribution Fiber Optic Cable, Orange

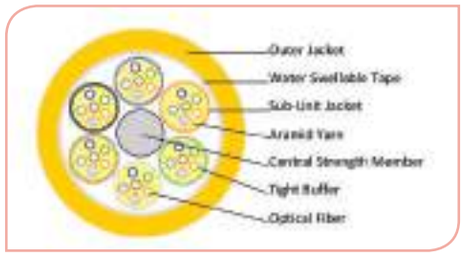
Substitute : xx = Number of fiber core
*-a000, a = production code, subjected to change upon shipping

Fiber Optic Solution

INDOOR MULTI-UNIT DISTRIBUTION FIBER OPTIC CABLE

Description

The fiber, either single mode or multimode type, are positioned in a sub-unit jacket, containing Aramid yarn and 6/12 fiber. This multi-unit design allow sub-unit to be routed to different area/panel, ease termination and connection. A Fiber Reinforced Plastic (FRP) locates in the center of the core as a non-metallic strength member. Sub-unit are stranded around the strength member into a compact and circular cable core, thus achieving 36 -144 fiber. Each fiber is mechanically reinforced with two successive sheaths of 400µm and 900µm which enables direct termination of connectors.



Application

This cable is suitable for Indoor Distribution in Riser or Fiber-to-the-Desk.

Standards

TIA/EIA 568-C, ISO 11801, IEEE 802.3, ITU Recommendations

Characteristics

- Accurate fiber excess length ensures good mechanical and temperature performance

Cable Properties

Fiber Count	No. of Sub-Unit	Cable Diameter, mm	Cable Weight, kg/km
36	6 (x 6 fiber)	14.5 ± 0.5	171
48	4	14.8 ± 0.5	161
60	5	16.1 ± 0.5	198
72	6	17.5 ± 0.5	244
96	8	20.7 ± 0.5	351
108	9	22.3 ± 0.5	413
144	12	24.8 ± 0.5	443

Physical Characteristics

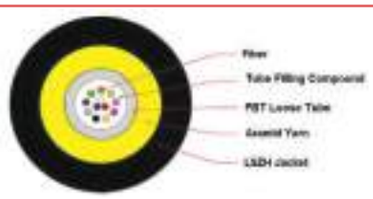
Tensile Strength, N	Long Term	400
	Short Term	1320
Crush Resistance, N/100 mm	Long Term	300
	Short Term	1000
Operating Temperature	-20°C to +60°C	
Storage Temperature	-20°C to +60°C	

Part #	Description
306-7MTxxx-a000	SM 9/125 µm Single Mode Multi-Unit Indoor Distribution, PVC Jacket, Yellow
4XG-5MTxxx-a000	OM4 50/125 µm Multimode Multi-Unit Indoor Distribution, PVC Jacket, Violet
3XG-5MTxxx-a000	OM3 50/125 µm Multimode Multi-Unit Indoor Distribution, PVC Jacket, Aqua
306-5MTxxx-a000	OM2 50/125 µm Multimode Multi-Unit Indoor Distribution, PVC Jacket, Orange
306-6MTxxx-a000	OM1 62.5/125 µm Multimode Multi-Unit Indoor Distribution, PVC Jacket, Orange

Substitute : xxx = Number of fiber core
*-a000, a = production code, subjected to change upon shipping

Fiber Optic Solution

UNITUBE SERIES FIBER OPTIC CABLE

UTA Series - Outdoor Unitube Armored Cable	General Cable Description
	The fiber, either single mode or multimode type, are housed in a single central polybutylene terephthalate Loose tube (PBT) with water-blocking compound. A layer of corrugated steel tape (CST) armor is applied longitudinally over the central loose tube. The parallel steel wire strength members are located, each, at the side of the fiber. The cable is completed with a polyethylene (PE) outer sheath
UTS Series - Indoor/Outdoor Unitube Cable	**General Cable Description**
	The fiber, either single mode or multimode type, are housed in a single central polybutylene terephthalate loose tube (PBT) with water-blocking compound. A layer of aramid yarn buffered between the central tube and the outer sheath to provide additonal strength and protection. The cable is completed with a smooth LSZH outer sheath

General Characteristics

- Accurate fiber excess length ensures good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant and tube filling compound ensure critical protection of fiber
- Specially designed compact structure is good at preventing loose tube from shrinking
- Crush resistance and flexibility
- Corrugated Steel Tape(CST) or Aramid Yarn enhances the cable crush and impact resistance
- 100% cable core filling ensures cable is water tight

Cable Properties

Fiber Type	No. of Fiber	Strength Member	Cable OD (mm)	Cable Weight (kg/km)
UTA	2 -12	Steel Wire (0.50mm)	8.00	70.00
UTS	2 - 12	Aramid Yam	6.00	50.00

Physical Characteristics

Fiber Type		UTA Armored (CST) Series	UTS Non-armored Series
Fiber Count		2 - 12 Fiber	2 - 12 Fiber
Sheath Thickness (mm)		nominal 1.80	nominal 1.80
Loose Tube Diameter (mm)		2.50 ± 0.10	2.30 ± 0.10
Central Strength Member, FRP (mm)		0.50 ± 0.10	0.50 ± 0.10
Cable OD (mm)		8.00	6.00
Cable Weight (kg/km)		70.00	50.00
Tensile Strength (N)	Long Term	600	200
	Short Term	1500	600
Crush Resistance (N/100m)	Long Term	300	300
	Short Term	1000	1000
Minimum Bend Radius	Installation	20D (Cable Diameter)	20D (Cable Diameter)
	Operation	10D (Cable Diameter)	10D (Cable Diameter)
Operating Temperature		-40°C to +70°C	-60°C to +85°C
Storage Temperature			

Ordering Information

UNITUBE FIBER CABLE				MODE	SERIES			FIBER COUNT			STRENGTH MEMBER		JACKET	
3	0	6	-	7	U	T	A	1	2	-	Y	S	0	0

306-7: SM OS2	UTA: ARMORED	02: 2 Fiber	A: ARAMID YARN	00: PE JACKET
306-5: MM OM2	UTS: NON-ARMORED	12: 12Fiber	F - FRP	LS: LSZH JACKET
3XG-5: MM OM3			S - STEEL WIRE	
4XG-5: MM OM4				

306-7UTA12-YS00 : 12C Singlemode Unitube Outoor Armored Steel Wire Strength Member PE Jacket

306-7UTS12-YALS : 12C Singlemode Unitube Indoor/Outoor Non-Armored Aramid Yarn Buffer LSZH Jacket

Fiber Optic Solution

INDOOR/OUTDOOR NON-METALLIC FIBER OPTIC CABLE

Description

The fiber, either single mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A Fiber Reinforced Plastic (FRP) locates in the centre of the core as a non-metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. The cable core is filled with filling compound and completed with overall Polyethylene (PE) or Fire Retardant LSZH sheath.

Application

This cable is suitable for Indoor or Outdoor Direct Burial, Tunnel and Duct environment for metropolitan network and access network, where metallic element is not allowed. The PE Sheath provides UV and Chemical/Oil resistance.

Standards

TIA/EIA 568-C, ISO 11801, IEEE 802.3, ITU Recommendations

Characteristics

- Accurate fiber excess length ensures good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant and filling compound ensure a critical protection of fiber
- Specially designed compact structure is good at preventing loose tube from shrinking
- Crush resistance and flexibility
- Single Fiber Reinforced Plastic used as the central strength member
- Loose tubes are filled with filling compound to ensures tubes are watertight.
- 100% cable core filling ensures cable is watertight

Cable Properties

Fiber Count	No. of Tubes	No. of Fillers	Cable OD (mm)	Cable Weight (kg/km)
4 ~ 12	1	5	10.0	81.00
24	2	4	10.5	90.00
36	3	3	10.5	90.00
48	4	2	10.5	90.00
72	6	0	11.20	107.00
96	8	0	11.9	123.00
144	12	0	14.6	178.00

Physical Properties

Fiber Count		4 - 12	24 - 72	96	144
Sheath Thickness (mm)		Nominal 2.80	Nominal 1.80		
Loose Tube Diameter (mm)		2.10			
Central Strength Member, FRP (mm)		2.25		3.70	6.40 (FRP 3.7)
Tensile Strength (N)	Long Term	300			
	Short Term	1000			

No. of Fiber	Part Number	Description
	306-NMS7xx-a000	For fiber below 96 core
12	306-NMS712-a000	12core 9/125 µm Single Mode Indoor/Outdoor Non-Metallic Fiber Optic Cable
	306-NMS700-a000-0xxx	For fiber above 100 core
144	306-NMS700-a000-0144	144core 9/125 µm Single Mode Indoor/Outdoor Non-Metallic Fiber Optic Cable

- Substitute xx : Number of fiber core
- Substitute 306-NMS7, with 4XG-NMS5 for OM4, 3XG-NMS5 for OM3, 306-NMS5 for OM2, 306-NMS6 for OM1
- Available in LSZH Jacket

*-a000, a = production code, subjected to change upon shipping

Fiber Optic Solution

INDOOR/OUTDOOR NON-METALLIC DOUBLE JACKET FIBER OPTIC CABLE

Description

The fiber, either single mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A Fiber Reinforced Plastic (FRP) locates in the center of the core as a non- metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. The cable core is filled with filling compound and covered with a thin layer of Polyethylene (PE) inner sheath. A layer of Aramid yarn is applied around the cable core as additional strength member. The cable is completed with a Polyethylene (PE) or Fire Retardant LSZH sheath.

Application

This cable is suitable for Indoor or Outdoor Direct Burial, Tunnel and Duct environment for metropolitan network and access network, where metallic element is not allowed. The PE Sheath provides UV and Chemical/ Oil resistance.

Standards

TIA/EIA 568-C, ISO 11801, IEEE 802.3, ITU Recommendations

Characteristics

- Accurate fiber excess length ensures good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant and filling compound ensure a critical protection of fiber
- Specially designed compact structure is good at preventing loose tube from shrinking
- Crush resistance and flexibility
- Single Fiber Reinforced Plastic used as the central strength member
- Loose tubes are filled with filling compound to ensures tubes are watertight.
- 100% cable core filling ensures cable is watertight

Cable Properties

Fiber Count	No. of Tubes	No. of Fillers	Cable Diameter, mm	Cable Weight, kg/km
2 ~ 6	1	5	10.7	~ 90
12	2	4	10.7	~ 90
24	4	1	10.7	~ 90
48	4	2	10.7	~ 112
96	8	0	13.9	~ 167
144	12	0	17.4	~ 252

Physical Characteristics

Outer Sheath Thickness, mm		nominal 1.0
Inner Sheath Thickness, mm		nominal 1.0
FRP Diameter, mm		2.25
Loose Tube Diameter, mm		2.1
Tensile Strength, N	Long Term	600 (1000 for 144core)
	Short Term	1500 (3000 for 144core)
Crush Resistance, N/100 mm	Long Term	300
	Short Term	1000
Operating Temperature		-40°C to +70°C
Storage Temperature		-40°C to +70°C

No. of Fiber	Part Number	Description
	306-NMA7xx-a000	For fiber below 96 core
12	306-NMA712-a000	12core 9/125 µm Single Mode Indoor/Outdoor Non-Metallic Double Jacket Fiber Optic Cable
	306-NMA700-a000-0xxx	For fiber above 100 core
144	306-NMA700-a000-0144	144core 9/125 µm Single Mode Indoor/Outdoor Non-Metallic Double Jacket Fiber Optic Cable

- Substitute xx : Number of fiber core
- Substitute 306-NMA7, with 4XG-NMA5 for OM4, 3XG-NMA5 for OM3, 306-NMA5 for OM2, 306-NMA6 for OM1
- Available in LSZH Jacket

*-a000, a = production code, subjected to change upon shipping

OUTDOOR STEEL ARMOURED FIBER OPTIC CABLE

Description

The fiber, either single mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of the core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. A corrugated steel tape armour(CST) is longitudinally applied over the cable core. The cable core is filled with filling compound to protect it from water. The cable is completed with a Polyethylene (PE) sheath.

Application

This cable is suitable for Outdoor Direct Burial, Tunnel and Duct installation in harsh environment. The armouring provides rodent and termite protection and the PE Sheath provides UV and Chemical/ Oil resistance.

Standards

TIA/EIA 568-C, ISO 11801, IEEE 802.3, ITU Recommendations

Characteristics

- Accurate fiber excess length ensures good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant and filling compound ensure a critical protection of fiber
- Specially designed compact structure is good at preventing loose tube from shrinking
- Crush resistance and flexibility
- Corrugated steel tape armour(CST) enhances the cable crush resistance, impact resistance and moisture proof
- 100% cable core filling ensures cable is watertight

Cable Properties

Fiber Count	No. of Tubes	No. of Fillers	Steel Wire Ø, mm	Cable Ø, mm	Cable Weight, kg/km
2 ~ 6	1	4	1.4	8.2	85
12	2	3	1.4	8.2	85
24	4	1	1.4	8.2	85
36	6	0	1.6	10.6	141
48	4	1	1.8	11.6	141
72	6	0	2.25 (2.6 w PBT)	12.6	159
96	8	0	2.25(4.2 w PBT)	13.8	209
144	12	0	3.5 w PBT	14.0	285
288	12	0	4.2 w PBT	19.8	410

Physical Characteristics

Fiber Cores		2 ~ 36	36 ~ 96	144	288
Steel Tape (PSP) Thickness, mm		0.25 + 0.1 Plastic coating on each side			
Sheath Thickness, mm		nominal 1.5		nominal 1.8	
Loose Tube Diameter, mm		1.7		0.3	0.3
Loose Tube Thickness, mm		1.9		2.2	3.0
Tensile Strength, N	Long Term	600		1000	1000
	Short Term	1500		3000	3000
Crush Resistance, N/100 mm	Long Term	300		1000	
	Short Term	1000		3000	
Operating Temperature		-40°C to +70°C			
Storage Temperature		-40°C to +70°C			

No. of Fiber	Part Number	Description
	306-STA7xx-a000	For fiber below 96 core
12	306-STA712-a000	12core 9/125 Single mode Outdoor CST Armoured Fiber Optic Cable
	306-STA700-a000-0xxx	For fiber above 100 core
144	306-STA700-a000-0144	144core 9/125 Single mode Outdoor CST Armoured Fiber Optic Cable

- Substitute xx : Number of fiber core
- Substitute 306-STA7, with 4XG-STA5 for OM4, 3XG-STA5 for OM3, 306-STA5 for OM2, 306-STA6 for OM1
- Available in LSZH Jacket and FRP Center Member

*-a000, a = production code, subjected to change upon shipping

Fiber Optic Solution

OUTDOOR STEEL ARMOURED FIGURE 8 AERIAL FIBER OPTIC CABLE

Description

The fiber, either single mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A steel wire is located in the center of the core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. A corrugated steel tape armour(CST) is applied longitudinally over the cable core, with is filled with filling compound to protect from water. The cable accompanied with Stranded Wires as the supporting element, completed with a Polyethylene (PE) sheath to form a figure-8 structure.

Application

This cable is suitable for Outdoor Self-Supporting Aerial installation. The corrugated steel tape armour(CST) protects the cable from rodent and termites. The PE Sheath provides UV and Chemical/Oil resistance.

Standards

TIA/EIA568-C,ISO11801,IEEE802.3,ITURecommendations

Characteristics

- High tensile strength of stranded wires meet the requirement of self-supporting and reduce cost of installation
- Good mechanical and temperature performance
- Accurate fiber excess length ensures good mechanical and temperature performance
- High strength loose tube that is hydrolysis resistant and special tube filling compound ensure a critical protection of fiber
- Specially designed compact structure is good at preventing loose tube from shrinking
- Steel Wire used as the central strength member
- CST provides the armoured covering and also act as a moisture barrier
- Loose tubes are filled with filling compound to ensures tubes are watertight
- 100% cable core filling ensures cable is watertight

Cable Properties

Fiber Count	No. of Tubes	No. of Fillers	Cable Ø x Cable Height, mm	Cable Weight, kg/km	Cable Weight, kg/km
2 ~ 6	1	4	5.6 x 9.2 x 16.8	179	85
12	2	3	5.6 x 9.2 x 16.8	179	85
24	4	1	5.6 x 9.2 x 16.8	179	85
48	4	1	5.6 x 11.0 x 18.6	223	141
96	8	0	5.4 x 12.4 x 20.8	253	141
72	6	0	2.25 (2.6 w PBT)	12.6	159
96	8	0	2.25(4.2 w PBT)	13.8	209

Physical Characteristics

Fiber Core		2 - 30	36 - 48	96
Cable Core Sheath Thickness, mm		nominal 1.5	nominal 1.6	nominal 1.8
CST Thickness, mm		0.25	0.25	0.25
Messenger Sheath Thickness, mm		nominal 1.0	nominal 1.0	nominal 0.9
Central Steel Wire Diameter, mm		1.6	1.6	1.6
Messenger Steel Wires, mm		7 x 0.8	7 x 1.0	7 x 1.2
Tensile Strength, N	Long Term	600	1000	1000
	Short Term	1500	3000	3000
Crush Resistance, N/100 mm	Long Term	300	300	300
	Short Term	1000	1000	1000
Operating Temperature		-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Storage Temperature		-40°C to +70°C	-40°C to +70°C	-40°C to +70°C

No. of Fiber	Part Number	Description
	306-F8A7xx-aM08	For fiber below 96 core
12	306-F8A712-aM08	12core 9/125 Single mode Figure-8 Armoured Fiber Optic Cable, 0.8mm Msg Wire

- Substitute xx : Number of fiber core
- Substitute 306-F8A7, with 4XG-F8A5 for OM4, 3XG-F8A5 for OM3, 306-F8A5 for OM2, 306-F8A6 for OM1

Available in LSZH Jacket and FRP Center member

*-a000, a = production code, subjected to change upon shipping

Fiber Optic Solution

OUTDOOR DOUBLE JACKET STEEL ARMOURED FIBER OPTIC CABLE

Description

The fiber, either single mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A fibre-reinforced plastic (FRP), sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of the core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core, enclosed by an inner polyethylene (PE) jacket. The cable core is filled with filling compound to protect it from water. A corrugated steel tape armour(CST) is longitudinally applied over the inner jacket. The cable is completed with a Polyethylene (PE) sheath.

Double armoured version can be achieved by adding a layer of aluminium tape armour before the inner jacket.

Standards

TIA/EIA568-C, ISO11801, IEEE802.3, ITURecommendations.

No. of Fiber	Part Number	Description
	306-STA7xx-a000-DSF0	For fiber below 96 core
12	306-STA712-a000-DSF0	12core 9/125 Singlemode Outdoor Double Jacket Steel Armoured Fiber Optic Cable
	306- STA700-a000-0xxx-DSF0	For fiber above 100 core
144	306-STA700-a000-0144-DSF0	144core 9/125 Singlemode Outdoor Double Jacket Steel Armoured Fiber Optic Cable
	306-STA7xx-a000-DDF0	For fiber below 96 core
12	306-STA712-a000-DDF0	12core 9/125 Singlemode Outdoor Double Jacket Double Armoured Fiber Optic Cable
	306- STA700-a000-0xxx-DDF0	For fiber above 100 core
144	306-STA700-a000-0144-DDF0	144core 9/125 Singlemode Outdoor Double Jacket Double Armoured Fiber Optic Cable

Substitute ;

- xx : Number of fiber core
- 306-STA7, with 4XG-STA5 for OM4, 3XG-STA5 for OM3, 306-STA5 for OM2, 306-STA6 for OM1

Available in LSZH Jacket and Steel Center member

*-a000, a = production code, subjected to change upon shipping

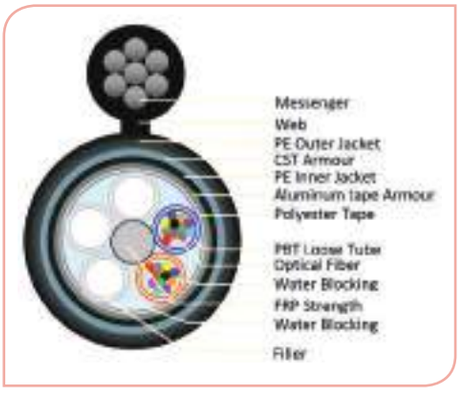
Fire Resistant IEC 60331-25 is available for -DSF0 model

OUTDOOR DOUBLE JACKET STEEL ARMOURED FIGURE 8 AERIAL FIBER OPTIC CABLE

Description

The fiber, either single mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a water-resistant filling compound. A fibre-reinforced plastic (FRP), sometimes sheathed with polyethylene (PE) for cable with high fiber count, is located in the center of the core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core with is filled with filling compound to protect from water, enclosed by an inner polyethylene (PE) jacket. A corrugated steel tape armour(CST) is applied longitudinally over the inner jacket. The cable accompanied with Stranded Wires as the supporting element, completed with a Polyethylene (PE) sheath to form a figure-8 structure.

Double armoured version can be achieved by adding a layer of aluminium tape armour before the inner jacket.



Standards

TIA/EIA568-C, ISO11801, IEEE802.3, ITURecommendations.

No. of Fiber	Part Number	Description
	306-F8A7xx-aM08-DSF0	For fiber below 96 core
12	306-F8A712-aM08-DSF0	12core 9/125 Singlemode Double Jacket Steel Armoured Figure 8 Aerial Fiber Optic Cable, 0.8mm Msg Wire
	306-F8A700-aM12-0xxx-DSF0	For fiber above 100 core
144	306-F8A700-aM12-0144-DFS0	144core 9/125 Singlemode Double Jacket Steel Armoured Figure 8 Aerial Fiber Optic Cable, 1.2mm Msg Wire
	306-F8A7xx-aM08-DDF0	For fiber below 96 core
12	306-F8A712-aM08-DDF0	12core 9/125 Singlemode Double Jacket Double Armoured Figure 8 Aerial Fiber Optic Cable, 0.8mm Msg Wire
	306-F8A700-aM12-0xxx-DDF0	For fiber above 100 core
144	306-F8A700-aM12-0144-DDF0	144core 9/125 Singlemode Double Jacket Double Armoured Figure 8 Aerial Fiber Optic Cable, 1.2mm Msg Wire

Substitute ;
- xx : Number of fiber core
- 306-F8A7, with 4XG-F8A5 for OM4, 3XG-F8A5 for OM3, 306-F8A5 for OM2, 306-F8A6 for OM1

Available in LSZH Jacket and Steel Center member
*-a000, a = production code, subjected to change upon shipping

Fiber Optic Solution

FIBER OPTIC DISTRIBUTION PANEL

Description

Alantek Fiber Optic Distribution Panels is available with various designs. The 19" Rack Mountable Panel comes in 1U, 2U and 4U height. The lockable Wall Mount Box is compact in size. These panels are suitable for direct termination and/ or splicing of fiber optic cables. Accessories include splice trays, splice sleeves, cable gland and wire management. Angled adaptor plates are also available for better patch cord management.

Application

Suitable for Indoor Fiber Optic Distribution backbone application.

Characteristics

- Available with ST, SC, FC or LC connectors
- Include splice tray, splice sleeves, cable glands and wire management
- 10G Ready, precision zirconia fitted sleeve for all Multimode and Singlemode adapter
- Small size Wall Mount Box: 260 (H) x 335 (W) x 100 mm (D)

Part #	Description
306-8R1UBN-0000	1U 19" Rack Mount Blank Fiber Optic Panel with Splice Tray, Splice Sleeve & Wire Management (2 plate slot)
306-8R2UBN-0000	2U 19" Rack Mount Blank Fiber Optic Panel with Splice Tray, Splice Sleeve & Wire Management (4 plate slot)
306-8R4U12-0000	4U 19" Rack Mount Blank Fiber Optic Panel with Splice Tray, Splice Sleeve & Wire Management (12 plate slot)
306-8WSBLN-0000	Wall Mount Blank Fiber Optic Box with Splice Tray, Splice Sleeve & Wire Management (2 plate slot)
306-8WMBLN-0000	Wall Mount Blank Fiber Optic Box with Splice Tray, Splice Sleeve & Wire Management (4 plate slot)
306-8WLBLN-0000	Wall Mount Blank Fiber Optic Box with Splice Tray, Splice Sleeve & Wire Management (8 plate slot)
306-8P0000-0000	Blank Adaptor Plate
306-8S0106-xx00	ST Adaptors with Plate, Flush Mount, 6-fiber
306-8S0112-xx00	ST Adaptors with Plate, Flush Mount, 12-fiber
306-8SA112-xx00	ST Adaptor with Plate, Angle Mount, 12-fiber
306-8S0306-xx00	FC Adaptors with Plate, Flush Mount, 6-fiber
306-8S0312-xx00	FC Adaptors with Plate, Flush Mount, 12-fiber
306-8SA312-xx00	FC Adaptor with Plate, Angle Mount, 12-fiber
306-8S0206-xx00	SC Simplex Adaptor with Plate, Flush Mount, 6-fiber
306-8S0212-xx00	SC Simplex Adaptor with Plate, Flush Mount, 12-fiber
306-8D0212-xx00	SC Duplex (6) Adaptor with Plate, Flush Mount, 12-fiber
306-8SA206-xx00	SC Simplex Adaptor with Plate, Angle Mount, 6-fiber
306-8SA212-xx00	SC Simplex Adaptor with Plate, Angle Mount, 12-fiber
306-8DA212-xx00	SC Duplex (6) Adaptor with Plate, Angle Mount, 12-fiber
306-8D0712-xx00	LC Duplex (6) Adaptor with Plate, Flush Mount, 12-fiber
306-8Q0724-xx00	LC Quad (6) Adaptor with Plate, Flush Mount, 24-fiber
306-8DA712-xx00	LC Duplex (6) Adaptor with Plate, Angle Mount, 12-fiber
306-8RST12-0000	12core Fiber Optic Splice Tray for Wall Mount Panel

Subsitute xx = SM for Singlemode, SA for Singlemode APC, MM for Multimode
Subsitute 306 = 3XG for OM3 Aqua, 4XG for OM4 Violet

Fiber Optic Solution

FIBER OPTIC DISTRIBUTION PANEL – HIGH DENSITY

Description
This latest Fiber Optic Distribution Panel can accommodate 4 adapter plates in 1U and terminate/splice from 12 to 48 fibers, in various types of connectors. Accessories include splice trays, splice sleeves, cable gland and wire management.

Application
Suitable for Indoor Fiber Optic Distribution backbone application.

Characteristics
- Sliding 1U patch panel with defined stop for the drawer
- Double cable entry with cable gland for easy routing
- Ample space within the panel for easy placement and routing of tight fiber after splicing and termination
- 10G Ready, precision zirconia fitted sleeve for all Multimode and Singlemode adapter.
- Maximum 3 layer of splice tray (3 x 24core)
- Available with ST, SC, FC or LC connectors

Part #	Description
306-9R1U4P-0000	1U 19" Rack Mount Blank Fiber Optic Patch Panel with Splice Tray(2), (4 Plate Slot)
306-9R1U4P-0600	1U 19" Rack Mount Blank Fiber Optic Patch Panel with Splice Tray(2), (4 Plate Slot with 6 cable gland input)
306-9R1U4P-06E0	1U 19" Rack Mount Blank Fiber Optic Patch Panel (4 Plate Slot with 6 cable gland input)(no splice tray)
306-9RST24-0000	24core Fiber Optic Splice Tray for Rack Mount Panel
306-9RST24-2460	24 core Fiber Optic Splice Tray with 24pcs of 3.0mm fusion splice sleeve, 60mm
306-9P0000-0000	Blank Adaptor Plate
3xx-9Sy208-zz00	SC Simplex (8) Adaptor with Plate, 8 fiber
3xx-9Sy212-zz00	SC Simplex (12) Adaptor with Plate, 12 fiber
3xx-9Dy212-zz00	SC Duplex (6) Adaptor with Plate, 12 fiber
3xx-9Dy712-zz00	LC Duplex (6) Adaptor with Plate, 12 fiber
3xx-9Dy716-zz00	LC Duplex (8) Adaptor with Plate, 16 fiber
3xx-9Dy724-zz00	LC Quad (6) Adaptor with Plate, 24 fiber
3xx-9S0112-zz00	ST Adaptors with Plate, 12 fiber
3xx-9S0312-zz00	FC (D type) Adaptors with Plate, 12 fiber

Substitute:

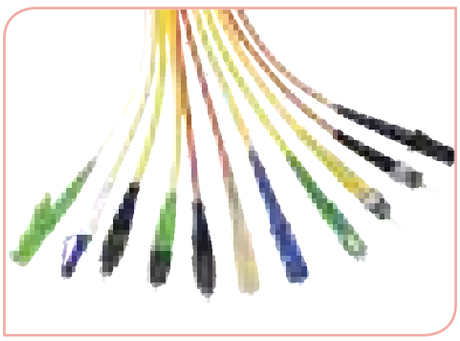
xx :	06 = SM, OM1, OM2 XG = OM3	y :	0 = normal adapter 1 = APC adapter	zz :	SM or MM

Fiber Optic Solution

FIBER OPTIC PATCH CORD AND PIGTAIL

Description

Alantek Fiber Optic Patch and Pigtail comes in various length and configuration. All the Patch Cords and Pigtails are factory terminated and tested to ensure a high optical performance.



Standards

- ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed, IEC 874-1, EN 50173, UL94V-0

Features

- Simplex, Duplex or Pigtail
- Single mode (9 µm), Multimode (50 µm or 62.5 µm) or OM3
- ST, SC, FC, LC, MT-RJ, ESCON and E2000 connectors
- Ceramic Ferrule
- 100% Factory Terminated and Tested

Characteristics

	SM APC	SM UPC	OM3/OM4 UPC	MM UPC
Insertion Loss	≤ 0.2 dB (0.15dB typ.)	≤ 0.2 dB (0.15dB typ.)	≤ 0.3 dB (0.25dB typ.)	≤ 0.3 dB (0.25dB typ.)
Return Loss	≥ 60 dB	≥ 50 dB	≥ 50 dB	≥ 50 dB
Max. change in Insertion Loss with repeat insertion	≤ 0.1 dB			
Insertion Life Cycle	> 1000 times			

- Insert Loss for MT-RJ is 0.5dB Max. (0.45dB typ.)

Part Number Creator

Fiber Patch Cords / Pigtails				Mode	Fiber Count	Polish	Connector Type		Unit		Length			Jacket
3	0	6	-	s	t	u	v	v	M	-	y	y	y	z

4XG-5	= OM4	1 - Simplex	1 - APC	1 - ST	1 - ST	example		0 - PVC
3XG-5	= OM3	2 - Duplex	3 - UPC	2 - SC	2 - SC	001	= 1 meter	L - LSZH
306-5	= OM2	P - Pigtail		3 - FC	3 - FC	200	= 200 meter	
306-6	= OM1			6 - E2000	6 - E2000			
306-7	= SM G.652.D			7 - LC	7 - LC	1M5	= 1.5 meter	
306-8	= SM G.657.A			8 - MT-RJ	8 - MT-RJ	1K5	= 1500 meter	
306-9	= SM G.657.A2			9 - ESCON	9 - 0.9mm pigtail			
					B - 2.0mm pigtail			
					C - 3.0mm pigtail			

Part #	Description
306-72322M-0030	SC/SC Duplex Singlemode 9/125um Fiber Optic Patch Cord - 3m
3XG-52312M-0050	ST/SC Duplex OM3 50/125um Fiber Optic Patch Cord - 5m
306-7P379M-0010	LC Singlemode 9/125um Pigtail – 1m
3XG-5P329M-1M50	SC OM3 50/125um Pigtail – 1.5m

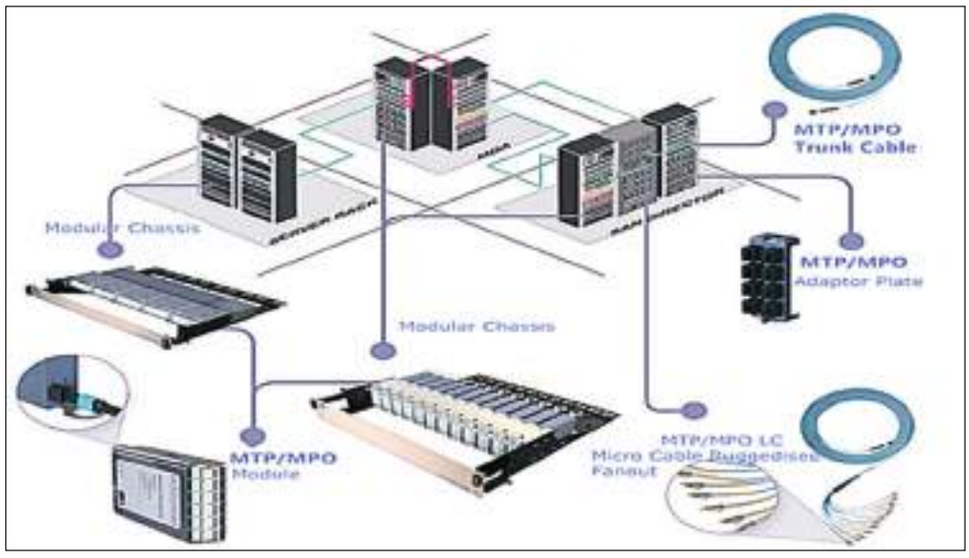
Note : All current Multi-mode and Single-mode patch cords and pigtails are UPC polish type. Also available in FTTx drop cable version

Fiber Optic Solution

MPO FIBER OPTIC CABLE AND CONNECTIVITY

Description

Alantek MPO Fiber Optic Solution is a high performance, pre-terminated, modular system designed for high density Gigabit Ethernet Applications. Pre- terminated and tested in factory to ensure reliability and allow quick deployments on site



STANDARDS

ANSI/TIA-568-C.3, EIA/TIA 604-5 (FOCIS 5), ISO/IEC 11801 2nd Ed, IEC 874-1, IEC 61754-7, EN 50173, UL94V-0

PRE-TERMINATED MPO TRUNK CABLE 12/24/48 FIBER

- Factory pre-terminated assemblies
- Cables terminated with high density MPO connectors
- All products with protocol, for constant and reliable quality
- All design come with LSZH sheath
- Available in lengths from 2 up to 200 meter

ORDERING INFORMATION

TRUNK CABLE				FIBER COUNT			MODE		POLARITY		CONN TYPE		COLOR			LENGTH (MT) & JACKET			
3	M	T	-	S	1	2	S	2	A	-	M	F	M	G	-	0	1	0	4

- 12 - 12 FIBER
- S - SINGLE
- D - DOUBLE
- S2 - SINGLEMODE OS2
- M3 - MULTIMODE OM3
- M4 - MULTIMODE OM4
- M5 - MULTIMODE OM5
- A WIRING
- B WIRING
- C WIRING
- M - MPO MALE
- F - MPO FEMALE
- AQ - AQUA
- LG - LIME GREEN
- MG - MAGENTA
- OR - ORANGE
- YL - YELLOW
- 001 - 1 METER
- 010 - 10 METER
- 100 - 100 METER
- 1 - PVC
- 2 - LSZH
- 3 - OFNP
- 4 - OFNR

Fiber Optic Solution

PRE-TERMINATED FANOUT CABLE ASSEMBLY

- Low loss transition from MPO to LC or SC tails 2 mm
- Terminated with female or male MPO connectors
- Cable performance: OM4 or OM3 XG 10 Gb/s;
- LSZH construction
- Optical performance: MPO connector: Attenuation ≤ 0.35 dB (max.)
  RL ≥ 28 dB (min) LC/SC connector: Attenuation≤ 0.15 dB (max)
  RL ≥ 35 dB (min)
- All products with protocol, for constant and reliable quality
  Tail lengths: As per Customer requirements

ORDERING INFORMATION

FANOUT CABLE ASSEMBLY				FIBER MODE		CONNECTOR A		FIBER COUNT		
3	M	F	-	S	2	S	M	1	2	-

S2 - SINGLEMODE OS2
M3 - MULTIMODE OM3
M4 - MULTIMODE OM4
M5 - MULTIMODE OM5

SM: SINGLE MPO MALE
SF: SINGLE MPO FEMALE
DM: DUAL MPO MALE
DF: DUAL MPO FEMALE

12:- 12F
24:- 24F
48:- 48F

QUANTITY		CONNECTOR B		POLARITY	TAIL LENGTH		COLOUR		TOTAL LENGTH			JACKET
0	6	D	2	A	C		A	Q	0	1	0	2

04: 4 CONN
06: 6 CONN
08: 8 CONN

D2: DUPLEX SC
S7: SIMPLEX LC
D7: DUPLEX LC
Q7: QUAD LC

A WIRING
B WIRING
C WIRING

A: 0.50M
C: 1.00M
E: 1.50M
G: 2.00M

AQ: AQUA
LM: LIME GREEN
MG: MAGENTA
YL: YELLOW

005: 5 METER
010: 10 METER
050: 50 METER
100: 100 METER

1: PVC
2: LSZH
3: OFNP

MPO CASSETTES MODULES (LC/SC)

- Pre-terminated low loss cassettes
- Quick Fit Type: Plastic Housing 6/12 Duplex LC
- Snap-on Type: Metal Housing 6/6 LC Duplex/Quad
- Back: 1 or 2 low loss MPO connector(s)
- Available in straight or flipped pair version
- Optical cassette performance in OM4:
  Attenuation ≤ 0.35 dB/cassette (max) RL ≥ 27 dB (min)
- All products with protocol, for constant and reliable quality
- Fits into Alantek Quick Fit & Snap-on 1U panel (Max : 4 Cassettes)

ORDERING INFORMATION

MPO CASSETTE				FIBER TYPE		COUNT		MPO GENDER			NO. OF CONNECTOR		TYPE		POLARITY
3	M	C	-	S	2	1	2	S	M	-	0	6	D	7	A

S2: SINGLEMODE OS2
M3: MULTIMODE OM3
M4: MULTIMODE OM4
M5: MULTIMODE OM5

12 - 12 FIBER

S - SINGLE MPO
D - DUAL MPO
M - MPO MALE
F - MPO FEMALE

06 - 6 CONNECTOR
08 - 8 CONNECTOR
12 - 12 CONNECTOR

S2 - SC SIMPLEX
S7 - LC SIMPLEX
D2 - SC DUPLEX
D7 - LC DUPLEX
Q7 - LC QUAD

A WIRING
B WIRING
C WIRING

Fiber Optic Solution

MPO QUICK-FIT & SNAP-ON TYPE PANEL

- Suitable for Fiber Optic pre-terminated solution, field direct termination and splice termination.
- 19" 1U unloaded with support for 4 Quick-Fit or Snap-on Modules
- Flush mount without front cable management bracket
- Allows for easy Move, Adds and Changes

QUICK-FIT PANEL

SNAP-ON PANEL

ORDERING INFORMATION

MODULAR PANEL				TYPE AND SIZE				COLOUR			COMPONENTS ADD-ON			
3	M	P	-	Q	F	R	1	B	L	-	X	X	X	X

QF - QUICK FIT	R1 - 1RU	BL - BLACK
SN - SNAP-ON	R2 - 2RU	GY - GREY
	R4 - 4RU	

MPO PATCH CORDS

- Terminated with a 12 Fiber MPO Connector over a 12 fiber cable
- 12 fiber are used for Application within duplex 1G to 10G Ethernet Network
- 8 fiber used within duplex 25G Ethernet and 40G/100G SR4 transmission networks
- Available in same or alternate Gender Interface and different polarity type.

ORDERING INFORMATION

MPO PATCH CORD				PATCH CORD		GENDER TYPE		JACKET COLOR			POLARITY	LENGTH			JACKET TYPE	
3	M	P	-	S	2	M	F	A	Q	-	A	0	1	0	2	0

S2: SINGLEMODE OS2	M: MPO MALE	AQ: AQUA	A WIRING	010: 1.0 METER	1: PVC
M3: MULTIMODE OM3	F: MPO FEMALE	LG: LIME GREEN	B WIRING	015: 1.5 METER	2: LSZH
M4: MULTIMODE OM4		MG: MAGENTA	C WIRING	100: 10.0 METER	3: OFNP
M5: MULTIMODE OM5		YL: YELLOW			

Fiber Optic Solution

FIBER OPTIC CONNECTOR

Description

Alantek quick assembly connectors provides easy installation as well as superior optical performance. It come with 2 boot for patch cord and pigtail terminations.

Standards

- Complies with IEC 61754-4, IEC 60784-14, IEC 61300, TIA 604-3
- Low insertion loss, Low reflection loss
- Zirconia ferrule
- 3 mm and 0.9 mm boots for SC, ST, FC
- 2 mm and 0.9 mm boots for LC

Specifications

Type	Multimode	Singlemode	Singlemode APC
Insertion Loss	≤ 0.3dB (0.2dB typ.)		
Return Loss	≥ 45 dB	≥ 50 dB	≥ 60 dB
Durability	≤ 0.2dB typical change, 500 mating		
Insertion Life Cycle	> 1000 times		
Operating Temperature	-40 to +85° C		

Part #	Description
306-083211-S2YL	ST Single mode Fiber Optic Connector, Yellow
306-083211-A2GN	ST APC Single mode Fiber Optic Connector, Green
306-083211-M2BL	ST Multimode Fiber Optic Connector, Black
306-083212-S2BU	SC Single mode Fiber Optic Connector, Blue
306-083212-A2GN	SC APC Single mode Fiber Optic Connector, Green
306-083212-M2BG	SC Multimode Fiber Optic Connector, Beige
306-083213-S2YL	FC Single mode Fiber Optic Connector, Yellow
306-083213-A2GN	FC APC Single mode Fiber Optic Connector, Green
306-083213-M2BL	FC Multimode Fiber Optic Connector, Black
306-083217-S2BU	LC Single mode Fiber Optic Connector, Blue
306-083217-A2GN	LC APC Single mode Fiber Optic Connector, Green
306-083217-M2BG	LC Multimode Fiber Optic Connector, Beige

FIBER OPTIC ADAPTOR (COUPLER)

Description

Alantek adapters are designed with zirconia alignment sleeve for multimode and singlemode, thus achieving the highest quality connection of Low Insertion Loss and Low Reflection Loss. Available in Gender-Changer too.

Part #	Description
306-083372-GNSF	SC APC Simplex Singlemode Fiber Optic Adapter, Green
306-083272-BLSF	SC Simplex Singlemode Fiber Optic Adapter, Blue
306-083272-AQMF	SC Simplex OM3/OM4 Multimode Fiber Optic Adapter, Aqua
306-083272-BGMF	SC Simplex Multimode Fiber Optic Adapter, Beige
306-083382-GNSF	SC APC Duplex Singlemode Fiber Optic Adapter, Green
306-083282-BLSF	SC Duplex Singlemode Fiber Optic Adapter, Blue
306-083282-AQMF	SC Duplex OM3/OM4 Multimode Fiber Optic Adapter, Aqua
306-083282-BGMF	SC Duplex Multimode Fiber Optic Adapter, Beige
306-083387-GNSF	LC APC Duplex Singlemode Fiber Optic Adapter(SC Body Type), Green
306-083287-BLSF	LC Duplex Singlemode Fiber Optic Adapter(SC Body Type), Blue
306-083287-AQMF	LC Duplex OM3/OM4 Multimode Fiber Optic Adapter(SC Body Type), Aqua
306-083287-BGMF	LC Duplex Multimode Fiber Optic Adapter(SC Body Type), Beige
306-083397-GNSF	LC APC Quad Singlemode Fiber Optic Adapter, (SC Body Type), Green
306-083297-BLSF	LC Quad Singlemode Fiber Optic Adapter, (SC Body Type), Blue
306-083297-AQMF	LC Quad OM3/OM4 Multimode Fiber Optic Adapter, (SC Body Type), Aqua
306-083297-BGMF	LC Quad Multimode Fiber Optic Adapter, (SC Body Type), Beige
Replace -xxxF with -xxxL for Flangeless version	
306-083377-GNSS	LC APC Simplex Singlemode Fiber Optic Adapter, Flangeless , Green
306-083277-BLSS	LC Simplex Singlemode Fiber Optic Adapter, Flangeless, Blue
306-083277-AQMS	LC Simplex OM3/OM4 Multimode Fiber Optic Adapter, Flangeless, Aqua
306-083277-BGMS	LC Simplex Multimode Fiber Optic Adapter, Flangeless, Beige
306-083387-GNSS	LC APC Duplex Singlemode Fiber Optic Adapter, Flangeless , Green
306-083287-BLSS	LC Duplex Singlemode Fiber Optic Adapter, Flangeless, Blue
306-083287-AQMS	LC Duplex OM3/OM4 Multimode Fiber Optic Adapter, Flangeless, Aqua
306-083287-BGMS	LC Duplex Multimode Fiber Optic Adapter, Flangeless, Beige
306-082271-YLSD	ST Simplex Singlemode Fiber Optic Adapter, (Metal, D-Hole)
306-083271-YLSS	ST Simplex Singlemode Fiber Optic Adapter, (Square)
306-082271-YLSF	ST Simplex Singlemode Fiber Optic Adapter, (Metal, SC Flange Type)
306-082281-YLSF	ST Duplex Singlemode Fiber Optic Adapter, (SC Flange Type)
306-082273-00SD	FC Simplex Singlemode Fiber Optic Adapter, (Metal, D-Hole)
306-082273-00SS	FC Simplex Singlemode Fiber Optic Adapter, (Metal, Square)
306-083273-00SF	FC Simplex Singlemode Fiber Optic Adapter, (SC Flange Type)
306-083283-00SF	FC Duplex Singlemode Fiber Optic Adapter, (SC Flange Type)
306-082277-2XSF	LC-SC Simplex Singlemode Fiber Optic Adapter, (Metal, SC Body Type)
306-082277-1XSF	LC-ST Simplex Singlemode Fiber Optic Adapter, (Metal, SC Flange Type)
306-082277-3XSF	LC-FC Simplex Singlemode Fiber Optic Adapter, (Metal, SC Flange Type)
306-082272-1XSF	SC-ST Simplex Singlemode Fiber Optic Adapter, (Metal, SC Body Type)
306-082272-3XSF	SC-FC Simplex Singlemode Fiber Optic Adapter, (Metal, SC Body Type)
306-082273-1XSF	FC-ST Simplex Singlemode Fiber Optic Adapter, (Metal, SC Flange Type)










Fiber Optic Solution

FIBER OPTIC OUTDOOR CLOSURE

Description

The Alantek Outdoor Fiber Closure are available in In-Line Horizontal and Dome design. The Closure is made from high-quality Polycarbonate, and, with the mechanical Sealing Structure fills with sealing materials, ensure the closure is tightly sealed.

Both model can be used in manhole, pole-mount, aerial-hanger, wall-mounting or direct buried.

Air valve is also available as an optional accessory for direct burial applications.

	FC076I	FC08PI	FC106I	FC046I	FC057D	FC02PD	FC017D	FC087D
Dimension (mm)	400 x 185 x 90	400 x 200 x 110	450 x 216 x 160	385 x 248 x 120	288 x 178	500 x 190	435 x 190	490 x 220
Cable Diameter (mm)	2x Φ16, 4x Φ13	2x Φ22, 2x Φ22	2x Φ16, 2x Φ20, 2xΦ23	2x Φ16, 2x Φ20, 2xΦ23	1x Φ13, 3x Φ12	4x Φ16	1x Φ25, 3x Φ16	1x Φ35, 6x Φ20
Cable Entry & Exit	2 & 4	2 & 2	2 & 4	2 & 4	1 & 3	4	1 & 3	1 & 6
Max Capacity of Cores Per Splice Tray	12 (Single) or 24 (Single	24 (Single)	12 (Single) or 24 (Single)	24 (Single) or 48 (Single)	12 (Single)	24 (Single)	12 (Single) or 24 (Single)	24 (Single) or 48 (Single), 72*
Max Capacity of Splice Trays / Closure	4 (Single, 24 Cores/Tray)	6 (Single, 24 Cores/ Tray)	6 (Single, 24 Cores/ Tray)	6 (Single, 48 Cores/ Tray)	4 (Single, 12 Cores/ Tray)	4 (Single, 24 Cores/ Tray)	4 (Single, 24 Cores/ Tray)	6 (Single, 48 Cores/ Tray)
Max Capacity of Cores	96	144	144	288	48	96	96	288 (432*)
Straight-Through	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes

Specifications

Part #	Description
306-FC076I-0024-Sxxx	24-96 core Inline Outdoor Closure (2in, 4out)
306-FC08PI-0022-S144	144 core Inline Outdoor Closure (2in, 2out)
306-FC106I-0024-Sxxx	96-144 core Inline Outdoor Closure (2in, 4out)
306-FC046I-0024-Sxxx	144-288 core Inline Outdoor Closure (2in, 4out)
306-FC057D-0P13-Sxxx	24-48 core Dome Outdoor Closure (1in, 3out)
306-FC02PD-0022-S096	96 core Dome Outdoor Closure (4 in/out)
306-FC017D-0P13-Sxxx	48-96 core Dome Outdoor Closure (1in, 3out)
306-FC087D-0P16-Sxxx	144-288 core Dome Outdoor Closure (1in, 6out)

Indicate the number of core required at xxx (c/w splice tray & accessories)

Fiber Optic Solution

FIBER OPTIC UNIVERSAL STRIPPING KIT

Description

This Universal Fiber Optic Stripping Kit can be used to strip variety of fiber cable from tight buffer, cordage, indoor distribution, outdoor, armoured and/to figure-8 aerial cable.

Kit consist of;

- 1 Fiber optic stripper
- 1 Kelvar Scissor
- 1 Fiber Jacket Stripper
- 1 Longitudinal Buffer Tube Slitter
- 1 Round Cable Cutter
- 1 Steel Wire Rope Cutter
- 1 Carbide fiber Scribe
- 1 6pcs Electronic Screwdriver Set
- 1 7" Lineman's plier 178mm
- 1 6" Needle Node Pliers
- 1 6" Side Cut Pliers 130mm
- 1 8" Adjustable wrench
- 1 Mini-Hacksaw
- 1 9Pcs Folding type hex key set (inch)
- 1 Screwdriver S/D(-)5×100mm
- 1 Screwdriver S/D(+)#1×100mm
- 1 Screwdriver S/D(-)6×100mm
- 1 Screwdriver S/D(+)#2×100mm
- 1 4 oz.Bottle of Alcohol (empty)
- 25 Cotton Swabs CS-1 (25pcs/bag)
- 1 Squeeze Blower
- 1 Utility knife
- 1 3.5M Tape Measure
- 1 Precision tweezer

Part #	Description
302-F10063-SK00	Fiber Optic Universal Stripping Kit

UNIVERSAL FIBER OPTIC CONNECTOR EPOXY/ POLISH TOOL KIT, WITH CURING OVEN

Description

Universal Fiber Optic Connector Epoxy/Polish Tool Kit can be used to terminate SC, ST, FC and LC connectors. This tool kit includes a curing oven to speed the production of connectors.

Kit consist of;

Carrying Case (430×330×135mm)

- 1 Fiber Optic Stripper
- 1 Kevlar Scissor
- 1 Crimping Plier for Connector
- 1 Anti-Static Tweezer
- 1 Round Cable Stripper
- 1 Loose Tube Stripper
- 1 Mini Wire Stripper
- 1 Marker Pen
- 1 Carbide Scribe Pen
- 1 Multipurpose Screwdriver
- 1 Alcohol Bottle Dispenser 125ml
- 1 Electrical Tape - Black
- 1 Fiber Microscope 400X
- 2 Fiber Adapter SC/ST/FC/LC
- 1 Safety Glasses
- 1 Cassette Box Cleaner
- 1 Liquid Spray Bottle
- 1 Kimberly Lint-Free Cleaning Paper
- 1 Accessory Box
- 1 Polishing Puck - LC (1.25mm)
- 1 Polishing Puck - SC/ST/FC (2.5mm)
- 1 One-Push fiber cleaning tool (2.5mm)
- 10pcs 9µm Polishing Film
- 10pcs 3µm Polishing Film
- 10pcs 1µm Polishing Film
- 10pcs 0.05µm Polishing Film
- Rubber Polishing Pad
- 150W Curing Oven

Part #	Description
302-F10060-UP0O	Universal Fiber Optic Connector Epoxy/Polish Tool Kit, with Curing Oven

VISUAL FAULT LOCATOR (VFL)

Description

Alantek Visual Fault Locator locates fiber, finds faults, verifies continuity and polarity. Also a basic maintenance tool for any fiber system.

Features

- Locates visual faults including tight bends, breaks and bad connectors
- Accelerates end-to-end fiber checks
- Easily verifies polarity and identifies fiber
- Features continuous and flashing modes
- Supports 2.5mm connector. And 1.25mm connector via SC/LC adapter*.
- 10mW/650nm locator, over 15 hours of battery life with two AA batteries

Part #	Description
306-FLP650-0000	Visual Fault Locator
306-082M7F-00SM	Hybrid Singlemode SC male to LC Female adapter

Fiber Optic Solution

FIBER CLEANING TOOL

One-Push 2.5 and 1.25

Description

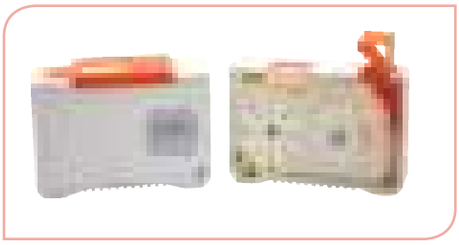
These easy-to-use One-Push fiber cleaning tool is great for cleaning connectors on jumpers and in adapters. Simply insert the One-Push cleaner into an adapter and push until an audible “click” is heard. The One-Push cleaner uses the mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently cleaned. The One-Push cleaner is a must-have for field technicians. Small enough to fit in a shirt pocket and a great addition to cleaning kits.

Features

- Low cost per clean (800 cleans)
- Effective on a variety of contaminates including dust and oils
- Automatic advance ensures each clean is performed with fresh cleaning tape
- Cleans connectors on jumpers and in adapters, include transmitters too
- Ergonomic, comfortable design with single action cleaning

Part #	Description
306-CLF250-0000	2.5mm One-Push cleaner for SC, SC2, ST, FC, DS (800 cleans)
306-CLF125-0000	1.25mm One-Push cleaner for MU, LC (800 cleans)
306-CLFMPO-0000	MPO(MTP) One-Push cleaner (500 cleans)

One-Push Cassette



Description

One-Push Cassette box cleaner is essential accessory to maintain and guarantee good quality of fiber optic connection. One of the best non-alcohol cleaning methods for various fiber optic terminations, such as SC, FC, MU, LC, ST, DS, DIN, APC, etc.

Features

- Designed for all types of connectors
- Compact size for easy hand-held operations
- Dry-clean with the densely stranded and debris free micro-fiber cloth that does not fray or leave any fibrous materials behind
- Constructed with anti-static material and eliminates electrostatic charge
- 400+ Cleanings

Part #	Description
306-CLE001-0000	One-Push Cassette box cleaner

Fiber Optic Solution

Cleaning Stick (Swab)

Description
Alantek cleaning sticks use a fibrous anti-static tip. These cleaning sticks deliver fast and consistent cleaning, even inside alignment sleeves.

Features
- Compact and disposable
- adhesives, binders, or fibers to leave residues

Part #	Description
306-STK250-0000	2.5mm Cleaning Stick (25pcs/Pack)
306-STK125-0000	1.25mm Cleaning Stick (25pcs/Pack)

CORE ALIGNMENT MINI FUSION SPLICER

Description
FS7400 is an automatic core alignment fusion splicer, which is capable of ensuring high-quality splicing even in the most unfavorable environment conditions.

Features
- Compact & Light weight, ~1.95kg
- Fully Automatic, Semi-automatic and Manual Operation
- 8 sec Splice time. 40 sec Tube-heat time.
- Able to store up to 8000 splice results
- Automatic self-calibration to ensures the best working condition
- Functional at 5000m altitude
- 4.3″ Color LCD monitor
- Pause function, convenient for research function
- USB & DC interface
- High battery capacity, up to 120 times of continuous splice and heat

Part #	Description
306-FS7400-0000	Single Fiber Fusion Splicer

FIBER MICROSCOPE

Description
With Alantek 200/400x Fiber Microscope, 2.5mm and 1.25mm ferrule end face can be check for dirt, dust and other contaminants. To avoid the #1 cause of fiber link failure: dirty end-faces.

Features
- White LED, rated for 100,000 hours
- Fine Focus control wheel
- Momentary on/off switch for light source
- Built in IR filter
- Exchangeable 2.5mm and 1.25mm adapter
- Runs on 3xAAA batteries

Part #	Description
306-FMC200-0000	Hand-Held Fiber Microscope 200x
306-FMC400-0000	Hand-Held Fiber Microscope 400x

Fiber Optic Solution

FAST ETHERNET FIBER CONVERTER 10/100BASE

Description

ALANTEK series auto-negotiation Fast Ethernet Fiber Converter can achieve the conversion between 10/100BASE-TX and 100BASE-FX, extending the transmission distance of legal 10M Ethernet or 100M Fast Ethernet up to 120km. It support a wide variety of networks providing a reliable and cost-effective fiber optic connectivity solution for Enterprise networks.

The modular design and flexible configuration enable scalable fiber network implementation. It can be used as a standalone module or with a 14-slot rack mount chassis.

Application

Suitable for extending application distance of traditional 100m copper network.

Standards

IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE802.3x Flow Control, IEEE802.1q VLAN, IEEE802.1p QoS, IEEE802.1d Spanning Tree

Features

- Single mode or Multimode with SC connectors
- Support MDI/MDI-X auto crossover
- Support half or full duplex mode communication with auto-negotiation function
- Spanning Tree Protocol
- External Power Supply
- Conform to FCC and CE safety standards

Part Number	Connector	Fiber Type	Fiber Model	Wavelength	TX Power dBm	RX Sensitivity dBm	Distance km
DUAL FIBER Series							
3MC-FDS2EX-Ty02	SC	Single Mode	Dual Fiber	1310	-8 ~ -3	≤ -19	2
3MC-FDS2EX-Ty20	SC	Single Mode	Dual Fiber	1310	-15 ~ -3	≤ -32	20
3MC-FDS2EX-Ty40	SC	Single Mode	Dual Fiber	1310	-8 ~ -3	≤ -34	40
3MC-FDS2EX-Ty60	SC	Single Mode	Dual Fiber	1310	-5 ~ 0	≤ -34	60
3MC-FDS2EX-Ty80	SC	Single Mode	Dual Fiber	1550	-5 ~ 0	≤ -34	80
3MC-FDS2EX-TyM1	SC	Single Mode	Dual Fiber	1550	-2 ~ 5	≤ -36	100
3MC-FDS2EX-TyMA	SC	Single Mode	Dual Fiber	1550	-2 ~ 5	≤ -36	120
SINGLE FIBER Series							
3MC-FSS2EX-Ay20 3MC-FSS2EX-By20	SC	Single Mode	Single Fiber	TX1310/RX1550nm TX1550/RX1310nm	-15 ~ -3	≤ -32	20
3MC-FSS2EX-Ay40 3MC-FSS2EX-By40	SC	Single Mode	Single Fiber	TX1310/RX1550nm TX1550/RX1310nm	-8 ~ -3	≤ -34	40
3MC-FSS2EX-Ay60 3MC-FSS2EX-By60	SC	Single Mode	Single Fiber	TX1490/RX1550nm TX1550/RX1490nm	-5 ~ 0	≤ -34	60
3MC-FSS2EX-Ay80 3MC-FSS2EX-By80	SC	Single Mode	Single Fiber	TX1490/RX1550nm TX1550/RX1490nm	-5 ~ 0	≤ -34	80
3MC-FSS2EX-AyK1 3MC-FSS2EX-ByK1	SC	Single Mode	Single Fiber	TX1490/RX1550nm TX1550/RX1490nm	-2 ~ 5	≤ -36	100
3MC-RK14DP-Wy00	14-slot 2U Fiber Converter Rack with dual power, 100V-275V AC. (Plug and Play)						

Single Fiber model must be order in a set.

- Models for ST, FC or LC connector are available upon request.
- Substitute: y = : E = Europe Style DC Power Adaptor, U = U.S. Style DC Power Adaptor.
- Optional : Link Fault Pass-through (LFP)

Fiber Optic Solution

GIGABIT ETHERNET FIBER CONVERTER 10/100/1000BASE

Description

ALANTEK series auto-negotiation Gigabit Ethernet Fiber Converter can achieve the conversion between 10/100/1000BASE-T and 1000BASE-SX/LX, extending the transmission distance of legal Gigabit Ethernet up to 100 km through Single Mode Fiber. It support a wide variety of networks providing a reliable and cost-effective fiber optic connectivity solution for Enterprise networks.

The modular design and flexible configuration enable scalable fiber network implementation. It can be used as a standalone module or with a 14-slot rack mount chassis.

Application

Suitable for extending application distance of traditional 100m copper network.

Standards

IEEE802.3 10Base-T, IEEE802.3u 100Base-TX/FX, IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base- SX/LX, IEEE802.3x Flow Control

Features

- Singlemode or Multimode with simplex SC connector
- Support MDI/MDI-X auto crossover
- Support half or full duplex mode communication with auto-negotiation function
- Spanning Tree Protocol
- Max. 2M buffer memory built in chip
- High performance 1.4Gbps memory bandwidth
- Max.1K-9Kbytes packet at store-and-forward mode
- Support jumbo frame size up to 9000Bytes.
- External Power Supply
- Conform to FCC and CE safety standards

Fiber Optic Solution

Part Number	Connector	Fiber Type	Fiber Model	Wavelength	TX Power dBm	RX Sensitivity dBm	Distance km
DUAL FIBER Series							
3MC-GDM2EX-Ty00	SC	Multimode (50/125µm)	Dual Fiber	850	-8 ~ -3	≤ -19	550m
3MC-GDS2EX-Ty00	SC	Single Mode	Dual Fiber	1310	-8 ~ -3	≤ -20	550m
3MC-GDS2EX-Ty10	SC	Single Mode	Dual Fiber	1310	-8 ~ -3	≤ -24	10km
3MC-GDS2EX-Ty20	SC	Single Mode	Dual Fiber	1310	-8 ~ -3	≤ -24	20km
3MC-GDS2EX-Ty40	SC	Single Mode	Dual Fiber	1310	-5 ~ 0	≤ -24	40km
3MC-GDS2EX-Ty60	SC	Single Mode	Dual Fiber	1310	-2 ~ 3	≤ -24	60km
3MC-GDS2EX-Ty80	SC	Single Mode	Dual Fiber	1550	0 ~ 5	≤ -24	80km
3MC-GDS2EX-TyM1	SC	Single Mode	Dual Fiber	1550	0 ~ 5	≤ -30	100km
SINGLE FIBER Series							
3MC-GSS2EX-Ay00 3MC-GSS2EX-By00	SC	Single Mode	Single Fiber	TX1310/RX1550nm TX1550/RX1310nm	-8 ~ -3	≤ -24.0	550m
3MC-GSS2EX-Ay10 3MC-GSS2EX-By10	SC	Single Mode	Single Fiber	TX1310/RX1550nm TX1550/RX1310nm	-8 ~ -3	≤ -24.0	10km
3MC-GSS2EX-Ay20 3MC-GSS2EX-By20	SC	Single Mode	Single Fiber	TX1310/RX1550nm TX1550/RX1310nm	-8 ~ -3	≤ -24.0	20km
3MC-GSS2EX-Ay40 3MC-GSS2EX-By40	SC	Single Mode	Single Fiber	TX1310/RX1550nm TX1550/RX1310nm	-5 ~ 0	≤ -24.0	40km
3MC-GSS2EX-Ay60 3MC-GSS2EX-By60	SC	Single Mode	Single Fiber	TX1490/RX1550nm TX1550/RX1490nm	-5 ~ 0	≤ -24.0	60km
3MC-GSS2EX-Ay80 3MC-GSS2EX-By80	SC	Single Mode	Single Fiber	TX1490/RX1550nm TX1550/RX1490nm	0 ~ 5	≤ -24.0	80km
3MC-RK14DP-Wy00	14-slot 2U Fiber Converter Rack with dual power, 100V-275V AC. (Plug and Play)						

- All model must be order in a set.
- Models for LC connector are available upon request.
- Substitute y : E = Europe Style DC Power Adaptor, U = U.S. Style DC Power Adaptor.
- Optional : Link Fault Pass-through (LFP)

Example

Part #	Description
3MC-FDS2EX-TU02	Singlemode 1310nm Fast Ethernet 10/100Base Fiber Converter, 2km, US Style adapter
3MC-FSS2EX-AU20	Singlemode (SINGLE FIBER) TX1310/RX1550nm Fast Ethernet 10/100Base Fiber Converter, 20km, US Style adapter
3MC-GDM2EX-TE00	Multimode 850nm Gigabit Ethernet 10/100/1000Base Fiber Converter, 550m, Europe Style adapter
3MC-GSS2EX-AU00	Singlemode (SINGLE FIBER) TX1310/RX1550nm Gigabit Ethernet 10/100/1000Base Fiber Converter, 550m, US Style adapter

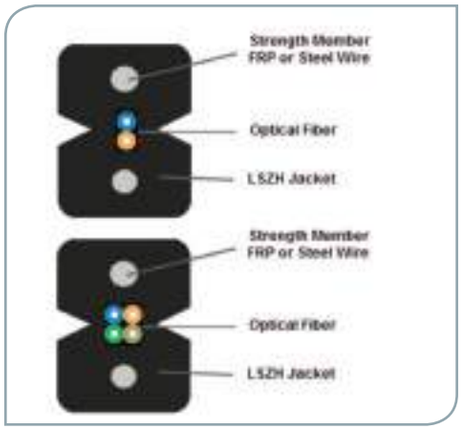
FTTx Solution

GIGABIT PASSIVE OPTICAL NETWORKS

FTTx DROP CABLE CABLES

Description

FTTH cables are used inside buildings or houses. In the center of the cable is the optical fiber, with the two parallel non-metallic FRP as the strength member, and surrounded with the LSZH jacket.
These FTTH cables have the same function of the common indoor fiber cables, but it does have some special features. FTTH indoor cables are small diameter, water-resistant, soft and bendable, easy to deploy and maintenance. G.657A1 bend insensitive fiber inside, minimising optic losses due to tight bending of installation in indoor areas.



Application

Access network, fiber to the home, Indoor cabling and distribution

Part #	Description
306-FTH702-FRLS	2-core SM FTTH Drop cable, FRP Member, LSZH
306-FTH704-FRLS	4-core SM FTTH Drop cable, FRP Member, LSZH
306-FTH706-FRLS	6-core SM FTTH Drop cable, FRP Member, LSZH
306-FTH712-FRLS	12-core SM FTTH Drop cable, FRP Member, LSZH
306-FAH702-FRLS	2-core SM FTTH Fig-8 Drop cable, FRP Member, LSZH
306-FAH704-FRLS	4-core SM FTTH Fig-8 Drop cable, FRP Member, LSZH
306-FAH706-FRLS	6-core SM FTTH Fig-8 Drop cable, FRP Member, LSZH
306-FAH712-FRLS	12-core SM FTTH Fig-8 Drop cable, FRP Member, LSZH

Replace FR with SW for Steel Wire Strength Member. Kelvar FRP is also available upon request.
* Available in PE and PVC jacket

FTTx Solution

FTTx FACEPLATE BOX

Features

- Standard UK Style Faceplate Box (86*86*25mm)
- Side entry for drop cable with cable restraint (pull-off strength greater than 50N)
- Fiber management spool for slack length storage
- Maximal capacity: 2 fibers
- Suitable for SC or Duplex LC(SC Form factor) adaptor. (Not Included)

Part #	Description
302-FTX022-00WH	2-port FTTH Faceplate Box, UK Style

FTTx FIBER TERMINAL BOX

Description

Alantek Fiber Terminal Box is a rugged, low cost, low profile that provide interconnection between central office and multi-dwelling units of FTTx application. It has a multi-layer design that allows installers to access only the components necessary for initial installation or subscriber turn-up. It can house the splitter unit and also allows for pigtail splicing of both distribution and drop cables.

Features

- Material: High Impact Plastic (PC+ABS)
- Suitable for both Indoor and Outdoor (IP55) Application
- Violet resistant and rainfall resistant
- Vandalise-Proof, internal mounting and lockable

Part #	Description
306-B04000-0000	4-port FTTH Terminal Box
306-B08000-0000	8-port FTTH Terminal Box
306-B12000-0000	12-port FTTH Terminal Box
306-B24000-0000	24-port FTTH Terminal Box

OUTDOOR FTTx FIBER TERMINAL BOX

Description

Alantek Fiber Terminal Box is a rugged, small and slim profile that provide interconnection between central office and non-vertical multi-dwelling units of FTTx application. It has a dual-layer design that allows installers to access only the components necessary for initial installation or subscriber turn-up. It can house the splitter unit and also allows for pigtail splicing of both distribution and drop cables. Comes with multiple mounting options.

Part #	Description
306-FC195F-0W2M-S008	8-port FTTH Outdoor Terminal Box, Wall Mount
306-FC092F-0W2M-S016	16-port FTTH Outdoor Terminal Box, Wall Mount

Replace 1 with 2 for 2 fiber in. More options available

FTTx Solution

FTTX PLC SPLITTER

Description

PLC Splitter (Planar Lightwave Circuit Splitters) is key component in FTTx including splitting ratio from 1(2) x 2, to 1(2) x 64, highly stable across temperature and wavelength providing low insertion loss, low input polarization sensitivity, excellent uniformity, and low return loss.

Avalible in Small Form Factor (Nickel Copper Alloy Encapsulated Case) (Blockless), Module (ABS Box) and Cassette (Slot-In) type. Also comes in various fan-out configurations, tight fiber to 3mm jacket, to with pre-terminated fiber optic connectors (SC/FC/ST/LC with APC/UPC).

Performance

1:N performance with Connectors		1 x 2	1 x 4	1 x 8	1 x 16	1 x 32	1 x 64
Working Wavelength		1260 - 1650					
Insertion Loss (dB)	max	3.8	7.1	10.2	13.5	16.5	20.5
Polarization Loss (dB)	max	0.2	0.2	0.2	0.25	0.3	0.35
Return Loss (dB)	min	≥55	≥55	≥55	≥55	≥55	≥55
Uniformity (dB)	max	0.4	0.6	0.8	1.2	1.5	2
Directivity (dB)	max	55	55	55	55	55	55

Physical Information

Input Port		1 or 2					
Output Port		1 x 2	1 x 4	1 x 8	1 x 16	1 x 32	1 x 64
Connector Type		SC/FC/ST/LC with APC/UPC					
Dimension (mm)	SFF	50 x 4 x 4	50 x 7 x 4	60 x 7 x 4	60 x 12 x 4	80 x 20 x 6	100 x 40 x 6
Housing Material		Nickel Copper Alloy					
Cable Type		O.9mm Tight Buffer					
Dimension (mm)	Module	100 x 80 x 10			120 x 80 x 18	140 x 115 x 18	
Housing Material		PC+ABS (Black)					
Cable Type		1.5mm, 2.0mm, 3.0mm					
Dimension (mm)	Cassette	130 x 25 x 100			130 x 50 x 100	130 x 102 x 100	130 x 206 x 100
Housing Material		PC+ABS (Light Grey)					

Part #	Description
306-PLC102-S910-21TT	PLC 1x2 Splitter SFF 0.9mm 1m SC/APC
306-PLC104-S910-21TT	PLC 1x4 Splitter SFF 0.9mm 1m SC/APC
306-PLC108-S910-21TT	PLC 1x8 Splitter SFF 0.9mm 1m SC/APC
306-PLC116-S910-21TT	PLC 1x16 Splitter SFF 0.9mm 1m SC/APC
306-PLC102-S215-21TT	PLC 1x2 Splitter Module 2mm 1.5m SC/APC
306-PLC104-S215-21TT	PLC 1x4 Splitter Module 2mm 1.5m SC/APC
306-PLC108-S215-21TT	PLC 1x8 Splitter Module 2mm 1.5m SC/APC
306-PLC116-S215-21TT	PLC 1x16 Splitter Module 2mm 1.5m SC/APC
306-PLC104-C000-21TT	PLC 1x4 Splitter Cassette SC/APC
306-PLC108-C000-21TT	PLC 1x8 Splitter Cassette SC/APC
306-PLC116-C000-21TT	PLC 1x16 Splitter Cassette SC/APC
306-PLC132-L000-21PM	PLC 1x32 Splitter Cassette(long type) SC/APC
306-PLC1xx	

Replace 1 with 2 for 2 fiber in.
Replace xx for the number of fiber count, 32, 64. More options available

FTTx Solution

FTTx OUTDOOR CROSS-CONNECT CABINET

Description

With the deployment of FTTH networks, splitters and fiber patching plays a very important roles. Alantek optical outdoor cabinets are the best solutions for accommodating splitters in high density under outdoor environment. With multiple splitters holder, fiber trays and spool management, you can rest assure that your fiber allocation are well managed.

Part #	Description
306-FC76PA-xxE2-0620	144-port FTTH Outdoor Cabinet, xx Splitter Cassette
306-FC76PB-09E2-1220	288-port FTTH Outdoor Cabinet, xx Splitter Cassette
306-FC76PC-18E2-2420	576-port FTTH Outdoor Cabinet, xx Splitter Cassette

FTTX ONU – DUAL MODE GPON/EPON

Description

Alantek dual mode GPON/EPON ONU are available in multiple configurations. Range from single port Gigabit to 4-port, POTS, WiFi and CATV. Ultra low power and based as a small fanless FTTx receiving device that is perfect for commercial business applications. Fully comply to IEEE 802.3ah/ITU-T 984.x and with a comprehensive OAM features that enable remote maintenance.

Features

- Complies with IEEE802.3ah/ITU-T 984.x standard
- Powerful OAM function

Part Number #	Description
3GP-ONU80L-WF1G-0000	GPON ONU 1 Gigabit Ethernet Port + Wi-Fi Port
3GP-ONU80L-WF2G-CA1P	GPON ONU 2 Gigabit Ethernet Port + 1 Pot + Wi-Fi Port + 1 CATV
3GP-ONU80L-WF4G-CA00	GPON ONU 4 Gigabit Ethernet Port + Wi-Fi Port + 1 CATV
3GP-ONU80L-WF4G-002P	GPON ONU 2 Gigabit Ethernet Port + 2 Pot + Wi-Fi Port

FTTx Solution

FTTX OLT - GPON

Description

Alantek GPON OLT are designed to provide 8-port to 16 port PON downlink, supporting from 512 to 1024 ONU in 1U 19" rack-mount. Suitable from small to medium size commercial system setup.

Performance

- Support inband/outband web management, CLI, SNMP and EMS
- Support ONU automatic identification, automatic finding, and automatic registration
- Support the function of automatic loop back test to single link
- Strong VLAN function, including VLAN Stacking, Trunk, Translation
- Support flexible controllable multicasting, support IGMP snooping
- Support online upgrade of device software
- QOS Function
- Support flexible DBA, uplink and downlink traffic rate-limited
- Support IP ToS, IEEE802.1p
- Layer 2 aggregation switching
- Optional dual power supply for redundancy control
- Low power consumption

Features

- ITU-T G.984X
- Powerful OAM Function
- 1 RU19 Inch
- 1+1 Power Redundancy
- 16* Fixed GPON Port
- 4*GE COMBO Port, 2*10GE SFP+ Port
- 1* Console Port

Part Number #	Description
3GP-OLT005-0808-1U0D	1U 8-port GPON OLT (CLI +WEB), with 4G Combo Port , 2 x 10G SFP Port & 1 Console Port, Dual Power
3GP-OLT0E5-0808-1U0D	1U 8-port GPON OLT (CLI +EMS), with 4G Combo Port , 2 x 10G SFP Port & 1 Console Port, Dual Power
3GP-OLT0E5-0816-1U0D	1U 16-port GPON OLT (CLI +EMS), with 4G Combo Port , 2 x 10G SFP Port & 1 Console Port, Dual Power

SHIELDED TWISTED MULTIPAIR CONTROL/AUDIO CABLE

Description
Alantek Shielded Twisted Multipair Control Cable consists of Stranded Tinned Copper Conductor with colour coded PE Insulation, overall cover with Aluminum Mylar Tape with minimum 25% overlap, Tinned Copper Drain Wire and Outer PVC Jacket.

Application
Multipair Audio, Control and Instrumentation Cable for Industrial, Data, Interconnect and Analogue Audio used.

Characteristics
Rated temperature 80°C
- Good mechanical and temperature performance
- Insulation Resistance: 10 MΩ-km (min) @ 20°C DC 500V (EIA-364-21)
- Dielectric Strength: AC 500V/1 minute no breakdown (EIA-364-20)
- Flexibility Test: No Cracking
- Flame Test: Pass Horizontal Flame

Colour Code
- For 1 Pair Cable : Black & Clear
- For > 1 Pair, per below table

Pair	1	2	3	4	5	6	7	8	9	10
Colour	Black/Red	Black/ White	Black/ Green	Black/ Blue	Black/ Yellow	Black/ Brown	Black/ Orange	Red/ White	Red/ Green	Red/Blue

No. of Pair	Stranded Conductor		Drain Wire		Jacket		Conductor Resistance @ 20°C (max)
	AWG	No./AWG	AWG	No./AWG	Nom. Thickness	O.D.	
Material	Stranded annealed Copper		Stranded annealed Copper		PVC		
1	16	19/29	18	16/30	0.81 mm	7.9 mm	14.8 Ω/km
	18	16/30	20	7/28	0.71 mm	5.6 mm	21.7 Ω/km
	20	7/28	20	7/28	0.71 mm	5.1 mm	34.6 Ω/km
	22	7/30	22	7/30	0.64 mm	4.3 mm	55.0 Ω/km
2	16	19/29	18	16/30	0.81 mm	10.5 mm	14.8 Ω/km
	18	16/30	20	7/28	0.75 mm	7.5 mm	21.8 Ω/km
	20	7/28	20	7/28	0.71 mm	6.6 mm	34.6 Ω/km
	22	7/30	22	7/30	0.70 mm	6.0 mm	55.0 Ω/km
4	16	19/29	18	16/30	0.81 mm	14.0 mm	14.8 Ω/km
	18	16/30	20	7/28	0.75 mm	10.0 mm	21.8 Ω/km
	20	7/28	20	7/28	0.75 mm	8.4 mm	34.6 Ω/km
	22	7/30	22	7/30	0.70 mm	7.5 mm	55.0 Ω/km

Part #	Description
301-CI96xx-0500	14 AWG Shielded Twisted Pair Control Cable
301-CI95xx-0500	16 AWG Shielded Twisted Pair Control Cable
301-CI94xx-0500	18 AWG Shielded Twisted Pair Control Cable
301-CI93xx-0500	20 AWG Shielded Twisted Pair Control Cable
301-CI92xx-0500	22 AWG Shielded Twisted Pair Control Cable
xx-0yzz	

Substitute : xx = Number of Pair
y : 3= 305m/Box, 5=500m/reel, 1=1000m/reel
zz : 00 = PVC, LS = LSZH(Orange colour jacket)
Other sizes from 30AWG to 10AWG are available upon request

For **Shielded Multi-Core**, Substitute '**CI9**' with '**CI7**'
Substitute : xx = Number of Conductor

UNSHIELDED TWISTED MULTIPAIR AUDIO CABLE

Description

Alantek Unshielded Twisted Pair Audio Cable consists of Stranded Tinned Copper Conductors with colour coded PE Insulation and Outer PVC Jacket.

Application

Multipair Audio and Control Cable for Industrial, Data, Interconnect and Analogue Audio used.

Characteristics

- Nom. Inductance 0.19µH/ft
- Nom. Capacitance Conductor to Conductor @1KHz 33pF/ft
- Max. Operating Voltage 300V RMS
- Rated temperature 80°C

Colour Code

- For 1 Pair Cable : Black & Clear
- For > 1 Pair, per below table

Pair	1	2	3	4	5	6	7	8	9	10
Colour	Black/Red	Black/ White	Black/ Green	Black/ Blue	Black/ Yellow	Black/ Brown	Black/ Orange	Red/ White	Red/ Green	Red/Blue

Cable Properties

No. of Pair	Conductor Stranded annealed Copper		Insulation PVC	Jacket PVC	Nom. Conductor DC Resistance @ 20°C	Max. Recommended Current/conductor @ 20°C
	AWG	Stranding	Nom. Thickness	Outer Diameter		
1	12	65/30	0.81 mm	9.8 mm	1.8 fi/1000ft	13 Amps
	14	42/30	0.81 mm	8.6 mm	2.86 fi/1000ft	9.6 Amps
	16	19/29	0.58 mm	6.27 mm	4.49 fi/1000ft	7.1 Amps
	18	7/26	0.55 mm	5.94 mm	5.86 fi/1000ft	4.8 Amps

Part #	Description
301-CI8701-0500	1 pair 12 AWG Unshielded Twisted Pair Audio Cable
301-CI8601-0500	1 pair 14 AWG Unshielded Twisted Pair Audio Cable
301-CI8501-0500	1 pair 16 AWG Unshielded Twisted Pair Audio Cable
301-CI8401-0500	1 pair 18 AWG Unshielded Twisted Pair Audio Cable
xx-0yzz	

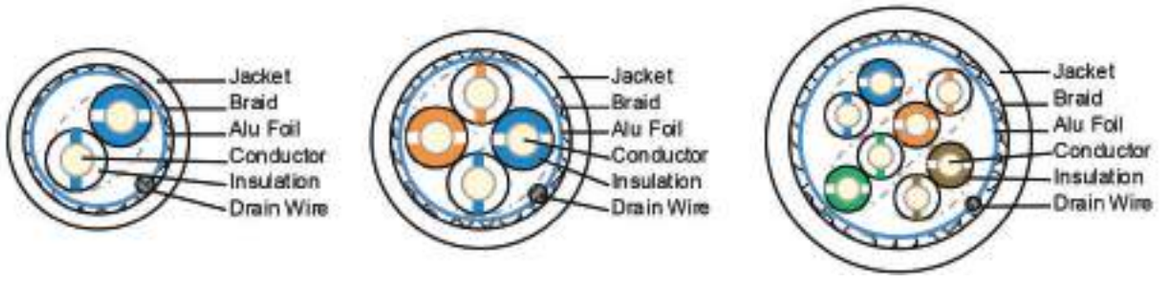
Substitute : xx = Number of Pair
y : 3= 305m/Box, 5=500m/reel, 1=1000m/reel
zz : 00 = PVC, LS = LSZH(Orange colour jacket)
Other sizes from 30AWG to 10AWG are available upon request

For **Unshielded Multi-Core**, Substitute '**CI8**' with '**CI6**'
Substitute : xx = Number of Conductor

RS-485 CABLE

Description

RS-485 Cable, a Multi-conductor, Low capacitance cable. Widely used communication interface in data acquisition and control applications, downward compatible to RS-422 and RS-232 signal.



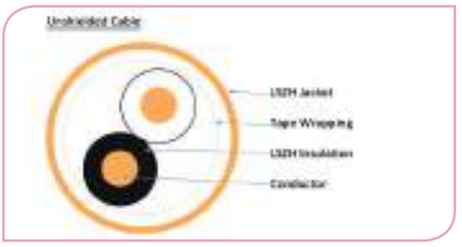
Construction		1-Pair	2-Pair	4-Pair
Conductor	Material	Bare Copper		
	AWG	24 (7 x 32)		
Insulation	Material	PE		
	Thickness (mm)	0.56 (average)		
	Diameter (mm ±0.15mm)	1.72 (nominal)		
	Colour	White/Blue & Blue/White	1.White/Blue & Blue/White 2.White/Orange & Orange/White	1.White/Blue & Blue/White 2.White/Orange & Orange/White 3. White/Green & Green/White 4. White/Brown & Brown/White
1st Shielding Drain Wire	Material	Aluminium-Mylar Foil		
	Tinned Copper (AWG)	7 x 32		
2nd Shielding	Material	Tinned Copper		
	Coverage (%)	90		
Jacket	Material	PVC		
	Thickness (mm)	0.89 (average) 0.72 (min. point)		
	Diameter (mm ±0.5mm)	5.89	8.64	9.90
	Colour	Grey		

Part #	Description
301-RS5101-0500	1-pair 24AWG Stranded Tinned copper, RS-485 Cable, PVC, 500m
301-RS5102-0500	2-pair 24AWG Stranded Tinned copper, RS-485 Cable, PVC, 500m
301-RS5104-0500	4-pair 24AWG Stranded Tinned copper, RS-485 Cable, PVC, 500m

For 22AWG, please substitute RS51 to RS52

SHIELDED/UNSHIELDED FIRE RETARDANT CONTROL CABLE

Description
Alantek Fire Retardant Control Cable consists of Bare Copper Conductor with LSZH Insulation, Aluminium Foil and Outer LSZH Jacket



Application
Multipair Control Cable for industrial, alarm, PA and critical system.
Tested in accordance to IEC 60332-1

Colour Code
- 1 pair : Black, White
- > 1 pair : Black, White with numberings

Cable Properties

Cable Counts	Conductor Stranded Copper		Insulation LSZH	Mica Tape	Shield	Drain Wire	Jacket LSZH (Orange colour)
	mm^2	No./mm ±0.024mm	OD (mm) ±0.3		All Foil	No./mm	OD (mm) ±0.1
Unshielded, 1pair	1.5	7/0.5	3.1	100%	N/A	N/A	8.0
Unshielded, 1pair	2.5	14/0.5	3.64	100%	N/A	N/A	8.8
Shielded, 1pair	1.5	7/0.5	3.1	100%	100%	19/0.287	8.5
Shielded, 1pair	2.5	14/0.45	3.64	100%	100%	19/0.36	9.6

Part #	Description
301-FRU015-201P-3M05	1-pair 1.5mm^2 Unshielded Fire Retardant Control Cable, Orange (500m)
301-FRU025-201P-3M05	1-pair 2.5mm^2 Unshielded Fire Retardant Control Cable, Orange (500m)
301-FRS015-201P-3M05	1-pair 1.5mm^2 Shielded Fire Retardant Control Cable, Orange (500m)
301-FRS025-201P-3M05	1-pair 2.5mm^2 Shielded Fire Retardant Control Cable, Orange (500m)

Other sizes from 0.5mm^2 to 4.0mm^2, multiple core or pairs are available upon request.

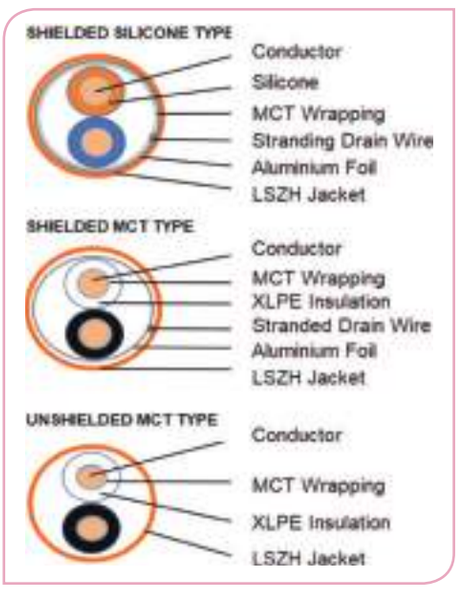
SHIELDED/UNSHIELDED FIRE RESISTANT CONTROL CABLE

Description

Alantek Fire Resistant Control Cable is available in two types offering both shielded and unshielded version.

The Silicone type consist of Bare Copper Conductor with Silicone Insulation then Mica Tape Wrapping follow by a layer of Aluminium Foil and complete with an LSZH outer Jacket.

The XLPE type consist of Bare Copper Conductor with MCT Wrapping then XLPE Insulation follow by a layer of Aluminium Foil and complete with an LSZH outer Jacket.



Application

Multipair Control Cable for industrial, alarm, PA and critical system
Tested in accordance to IEC 60332-3A, IEC 60331, BS 5308 or/and BS 6387 CZW

Colour Code

- Silicone Type : 1 pair (Blue, Orange)
- XLPE Type : 1 pair (Black, White)
- > 1pair (Black, White with numbering : 1,2,3 …)

Cable Properties

	Cable Counts	Conductor Stranded annealed Copper		Mica Tape	Insulation XLPE	Shield	Drain Wire	Jacket LSZH (Orange colour)
		mm^2	No./mm		Thickness (mm)	Laminated Aluminium polyester tape	Tinned strand copper wire No./mm	OD (mm) ±0.6
IEC 60331	Unshielded, 1-pair	1.5	7/0.53	2 layer	0.60	Nil	Nil	8.3
	Unshielded, 1-pair	2.5	7/0.67	2 layer	0.70	Nil	Nil	9.5
	Unshielded, 2-pair	1.5	7/0.53	2 layer	0.60	Nil	Nil	12.8
	Unshielded, 2-pair	2.5	7/0.67	2 layer	0.70	Nil	Nil	14.7
	Shielded, 1pair	1.5	7/0.53	2 layer	0.60	Yes	16/0.2mm	8.5
	Shielded, 1pair	2.5	7/0.67	2 layer	0.70	Yes	16/0.2mm	9.7
	Shielded, 2pair	1.5	7/0.53	2 layer	0.60	Yes	16/0.2mm	13.0
	Shielded, 2pair	2.5	7/0.67	2 layer	0.70	Yes	16/0.2mm	14.9
BS 6387 CZW	Unshielded, 1-pair	1.5	7/0.53	2 layer	0.60	Nil	Nil	9.3
	Unshielded, 1-pair	2.5	7/0.67	2 layer	0.70	Nil	Nil	10.5
	Unshielded, 2-pair	1.5	7/0.53	2 layer	0.60	Nil	Nil	14.4
	Unshielded, 2-pair	2.5	7/0.67	2 layer	0.70	Nil	Nil	16.4
	Shielded, 1pair	1.5	7/0.53	2 layer	0.60	Yes	16/0.2mm	9.5
	Shielded, 1pair	2.5	7/0.67	2 layer	0.70	Yes	16/0.2mm	10.7
	Shielded, 2pair	1.5	7/0.53	2 layer	0.60	Yes	16/0.2mm	14.6
	Shielded, 2pair	2.5	7/0.67	2 layer	0.70	Yes	16/0.2mm	16.6

Part #	Description
301-FRS015-E01P-3M05	1-pair 1.5MM2 Fire Resistant Shielded Cable, IEC60331, Orange (500M)
301-FRS015-E02P-3M05	2-pair 1.5MM2 Fire Resistant Shielded Cable, IEC60331, Orange (500M)
301-FRS015-B01P-3M05	1-pair 1.5MM2 Fire Resistant Shielded Cable, BS 6387 CWZ, Orange (500M)
301-FRS015-B02P-3M05	2-pair 1.5MM2 Fire Resistant Shielded Cable, BS 6387 CWZ, Orange (500M)
301-FRS015-E01P-3S05	1-pair 1.5MM2 Fire Resistant Silicone Ins. Shielded Cable, IEC60331, Orange (500M)
301-FRS015-E02P-3S05	2-pair 1.5MM2 Fire Resistant Silicone Ins. Shielded Cable, IEC60331, Orange (500M)

Replace 'FRS' to 'FRU' for unshielded solution.
* Other sizes from AWG, 0.5mm^2 to 4.0mm^2, multiple core or pairs, and SWA armour are available upon request.

CATV Solutions

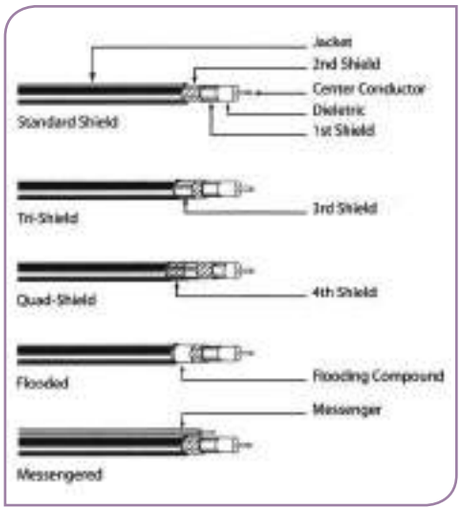
COAXIAL DROP CABLES

Description

Alantek coaxial drop cable includes RG59, RG6 and RG11 series, with excellent electrical performance, mainly applied to CATV network distribution. Nitrogen-CO2 Foamed Polyethylene can achieved excellent transmission property. Cable jacket utilizes different kinds of material according to actual demands. Alantek RG series cable has passed serious tests including high/low temperature test, ultraviolet test, hot wet test, fire retardant test, salt fog test and etc,.

Frequency Performance

RG Type	RG 59	RG 6	RG 11
Frequency (MHZ)	Maximum (DB/100M)		
5	3.80	2.80	1.40
55	6.73	5.25	3.15
211	12.47	10.00	6.23
250	13.45	10.82	6.72
350	15.75	12.63	7.94
400	16.73	13.61	8.53
450	17.72	14.43	9.02
500	18.70	15.09	9.51
550	19.52	16.08	9.97
600	20.34	16.73	10.43
750	22.87	18.54	11.97
865	24.67	20.01	13.05
1000	26.64	21.49	14.27
1200	29.40	23.89	15.85
1450	32.41	26.30	17.78
1750	36.04	29.13	20.01
2000	38.60	30.70	21.44



Electrical Characteristics at 20°C

	RG 59	RG 6	RG 11
Nominal Impedance	75 ohm		
Nominal Velocity of Propagation	85%		
Shielding Effectiveness	>100db		
Capacitance	50.0 pF/m (nom.)	53.2 pF/m (nom.)	53.2 pF/m (nom.)

Cable Physical Construction

Component	Foil + Braid Shield (mm)			Tri- Shield (mm)			Quad-Shield (mm)		
	RG59	RG 6	RG 11	RG59	RG 6	RG 11	RG59	RG 6	RG 11
Nominal Diameter Of Center Conductor	0.81	1.02	1.63	0.81	1.02	1.63	0.81	1.02	1.63
Nominal Diameter Over Dielectric	3.66	4.57	7.11	3.66	4.57	7.11	3.66	4.57	7.11
Nominal Diameter Over Shield (Tape)	3.84	4.75	7.29	3.84	4.75	7.29	3.84	4.75	7.29
Nominal Diameter Over Jacket	6.10	6.91	10.03	6.10	7.06	10.03	6.73	7.62	10.29
Nominal Jacket Wall Thicknes	0.81	0.76	1.07	0.76	0.76	0.99	0.86	0.86	0.94
Nominal Diameter Of Steel Messenger	1.30	1.30	1.83	1.30	1.30	1.83	1.30	1.30	1.83
Conductor	Copper Covered Steel Conductor, Gas Expanded Polyethylene dielectric								
Shield : Foil	Aluminum-Polypropylene-aluminum laminated tape with overlap bonded to dielectric								
Braid : braid	34 AWG aluminum wire, 60% Braid Coverage								
Shield : 2nd Foil	N/A			Al. Laminated Foil			Al. Laminated Foil		
Braid : 2nd braid	N/A			N/A			Aluminum Wire Coverage, 35%(RG59), 40%(RG6 ,RG11)		

Mechanical Characteristics

	RG 59	RG 6	RG 11
Min. Breaking Strength of messenger	180 lbs. 80kg	180 lbs. 80kg	365 lbs. 166kg
Cable Temperature		- 20˚C to 70 ˚C	

Part #	Description
301-RG5900-SSBK-1223	CATV RG59 Coaxial Cable 75 Ohms, 60% Braid, PVC Black, 305m
301-RG5900-SSBK-1253	CATV RG59 Coaxial Cable 75 Ohms, 90% Braid, PVC Black, 305m
301-RG0600-SSBK-1223	CATV RG6 Coaxial Cable 75 Ohms, 60% Braid, PVC Black, 305m
301-RG0600-SSBK-1253	CATV RG6 Coaxial Cable 75 Ohms, 90% Braid, PVC Black, 305m
301-RG1100-SSBK-1223	CATV RG11 Coaxial Cable 75 Ohms, 60% Braid, PVC Black, 305m
301-RG1100-SSBK-2223	CATV RG11 Coaxial Cable 75 Ohms, 60% Braid, PE Black, 305m
301-RG1100-SSBK-2253	CATV RG11 Coaxial Cable 75 Ohms, 90% Braid, PE Black, 305m
301-RG590F-SSBK-1223	CATV RG59 Coaxial Cable 75 Ohms, 60% Braid, PVC Black, with Flooding Comp., 305m
301-RG060F-SSBK-1223	CATV RG6 Coaxial Cable 75 Ohms, 60% Braid, PVC Black, with Flooding Comp., 305m
301-RG110F-SSBK-2223	CATV RG11 Coaxial Cable 75 Ohms, 60% Braid, PE Black, with Flooding Comp., 305m
301-RG590M-SSBK-1223	CATV RG59 Coaxial Cable 75 Ohms, 60% Braid, PVC Black, with Messenger, 305m
301-RG060M-SSBK-1223	CATV RG6 Coaxial Cable 75 Ohms, 60% Braid, PVC Black, with Messenger, 305m
301-RG110M-SSBK-2223	CATV RG11 Coaxial Cable 75 Ohms, 60% Braid, PE Black, with Messenger, 305m
301-RG59FM-SSBK-1223	CATV RG59 Coaxial Cable 75Ω, 60% Braid, PVC Black, with Msger. & Fldg. Comp., 305m
301-RG06FM-SSBK-1223	CATV RG6 Coaxial Cable 75Ω, 60% Braid, PVC Black, with Msger. & Fldg. Comp., 305m
301-RG11FM-SSBK-2223	CATV RG11 Coaxial Cable 75Ω, 60% Braid, PE Black, with Msger. & Fldg. Comp., 305m
301-RG5900-3SBK-1293	CATV RG59 Tri-Shield Coaxial Cable 75 Ohms, 77% Braid, PVC Black, 305m
301-RG0600-3SBK-1293	CATV RG6 Tri-Shield Coaxial Cable 75 Ohms, 77% Braid, PVC Black, 305m
301-RG0600-3SBK-1223	CATV RG6 Tri-Shield Coaxial Cable 75 Ohms, 60% Braid, PVC Black, 305m
301-RG1100-3SBK-2293	CATV RG11 Tri-Shield Coaxial Cable 75 Ohms, 77% Braid, PE Black, 305m

75Ω COAXIAL TRUNK CABLES

Description

Alantek 75Ω Trunk Cable is optimized for use in broadband application. With low attenuation, inherent strength and proven performance and reliability, making it the right choice for distribution applications. Available in Flooding and Messenger version.

Cable Properties

	500	500 with Messenger	540	540 with Messenger	565	565 with Messenger
Center Conductor Dia.	2.77 mm	2.77 mm	3.15 mm	3.15 mm	3.28 mm	3.28 mm
Dielectric Dia.	11.43 mm	11.43 mm	13.03 mm	13.03 mm	13.20 mm	13.20 mm
Outer Conductor Dia.	12.70 mm	12.70 mm	13.72 mm	13.72 mm	14.35 mm	14.35 mm
Outer Conductor Thickness	0.61 mm	0.61 mm	0.34 mm	0.34 mm	0.58 mm	0.58 mm
Jacket Thickness	14.22 mm	14.22 mm	15.49 mm	15.49 mm	15.90 mm	15.90 mm
Jacket Dia.	0.76 mm	0.76 mm	0.89 mm	0.89 mm	0.76 mm	0.76 mm
Steel Messenger Dia.	-	2.77 mm	-	2.77 mm	-	2.77 mm

Part #	Description
301-0AC500-0000	AC500 75Ω Coaxial Trunk Cable with Messenger
301-0AC500-00NM	AC500 75Ω Coaxial Trunk Cable Non-messenger
301-0AC500-0FNM	AC500 75Ω Coaxial Trunk Cable with Flooding Compound, Non-messenger
301-0AC540-0000	AC540 75Ω Coaxial Trunk Cable with Messenger
301-0AC540-00NM	AC540 75Ω Coaxial Trunk Cable Non-messenger
301-0AC540-0FNM	AC540 75Ω Coaxial Trunk Cable with Flooding Compound, Non-messenger
301-0AC565-0000	AC565 75Ω Coaxial Trunk Cable with Messenger
301-0AC565-00NM	AC565 75Ω Coaxial Trunk Cable Non-messenger
301-0AC565-0FNM	AC565 75Ω Coaxial Trunk Cable with Flooding Compound, Non-messenger

COMPRESSION F CONNECTOR

Description

This compression F connector series is a well proven design that secure the cable to the connecctor in a 360° compressed plastic sleeve.

Characteristics

- 1-piece design, simplify termination time.
- Assist Guide for easy insertion and guide. Guide can be discard when cable's foam insulation are fully flush with post.
- Double(triple for RG11) rubber O-ring to prevent moisture migration.
- Weather resistant Nickel-Tin Plated Brass body.
- UV resistant plastic sleeve.
- Excellent return loss of 27~43dB @ 1GHz*
- Cable retention exceeds 18kg(40lb) minimum as specified by the SCTE

Physical Properties

Nut : Brass with Nickel Tin Plated
Collar : Brass with Nickel Tin Plated
Post : Brass with Tin Plated
O-Rings : Ethylene Propylene Rubber

Electrical Properties

Insertion Loss : ≤ 0.18 dB (up to 1GHz Typical)
RFI Shielding : -85 dB (up to 1GHz Typical)
Return Loss (min) :

Freq (MHz)	5 - 500	500 - 1000	1000 - 1750	1750 - 2000	2000 - 2400	2400 - 2610	2610 - 3000
3CN-CFSNS0-RG59	43 dB	43 dB	43 dB	43 dB	42 dB	42 dB	40 dB
3CN-CFSNS0-RG06	33 dB	32 dB	29 dB	29 dB	28 dB	27 dB	27 dB
3CN-CFSNS0-RG11	29 dB	27 dB	25 dB	24 dB	23 dB	23 dB	22 dB
3CN-CFSNSR-RG11	28 dB	27 dB	25 dB	25 dB	24 dB	24 dB	22 dB

Mechanical Properties

	Cable Insertion Force	Cable Retention	
		Min (Complies to SCTE IPS-SP-401)	Max
3CN-CFSNS0-RG59	< 9 kg (20 lbs)	18 kg (40 lbs)	21.0 kg (46.3 lbs)
3CN-CFSNS0-RG06			26.5 kg (58.4 lbs)
3CN-CFSNS0-RG11			51.5 kg (113.4 lbs)
3CN-CFSNSR-RG11			30.0 kg (66.0 lbs)

Environmental Properties

Operation Temperature : -40°C to 60°C (-40°F to 140°F)
Moisture Migration : Complies to ANSI/SCTE 60 2004

Part #	Description	Center conductor size (mm)	Post I.D. (dielectric with shield) (mm)	Sleeve I.D. (outer jacket) (mm)	Sleeve Colour	Tool
3CN-CFSNS0-RG59	RG59 Compression F Connector	-	3.66 - 3.99	5.89 - 6.93	Red	CBJ561 / CJR561
3CN-CFSNS0-RG06	RG6 Compression F Connector	-	4.57 - 4.90	6.73 - 7.75	Green	CBJ561 / CJR561
3CN-CFSNS0-RG11	RG11 Compression F Connector	1.61 - 1.64	7.11 - 7.47	9.91 - 10.59	Black	CBJ561
3CN-CFSNSR-RG11	RG11 Compression F Connector, Right Angled	1.61 - 1.64	7.11 - 7.47	9.91 - 10.59	Black	CBJ561 / CJR561

302-CBJ561-0000
Deluxe Compression tool for SNS Series

302-CJR561-0000
Compression tool for SNS Series

302-CSP561-J000
Coax Cable Stripper for RG59/6/7/11

CATV INDOOR SPLITTERS

Description

Alantek CATV Splitter is designed with high grade circuitry for minimal signal loss and maximum transfer. With a ground connection and a precision cast body it is an effective and durable solution.

Features

- Zinc plated housing, corrosion resistance
- Double Mounting Taps for easy installation
- Low insertion loss, high Isolation and Return loss
- All ports with blocking capacitors
- Concave soldered-back design for protection against RFI
- Connector : F female, 75Ω

MHz / Part #	Insertion Loss (dB, max)				Out to Out Isolation (dB, min)				Return Loss In and Out (dB, min)			
	5-65	65-550	550-750	750-1000	5-65	65-550	550-750	750-1000	5-65	65-550	550-750	750-1000
2-Way CATV Indoor Splitter												
308-ISPV02-0000	≥3.7	≥3.7	≥4.0	≥4.2	≥22	≥28	≥28	≥25	≥16	≥16	≥16	≥16
3-Way CATV Indoor Splitter												
308-ISPV03-0000	≥5.5	≥5.8	≥6.3	≥6.8	≥22	≥28	≥28	≥25	≥16	≥16	≥16	≥16
4-Way CATV Indoor Splitter												
308-ISPV04-0000	≥7.2	≥7.5	≥7.8	≥8.0	≥22	≥28	≥28	≥25	≥16	≥16	≥16	≥16
6-Way CATV Indoor Splitter												
308-ISPV06-0000	≥9.0	≥9.0	≥10.5	≥11.0	≥22	≥28	≥28	≥23	≥16	≥16	≥16	≥16
8-Way CATV Indoor Splitter												
308-ISPV08-0000	≥10.5	≥10.5	≥11.5	≥12.0	≥22	≥28	≥28	≥23	≥16	≥16	≥16	≥16

Also available in 10, 12 ,14 and 16 ways.

CATV INDOOR TAPS

Description

Alantek CATV Taps(Directional Couplers) is designed with high grade circuitry for minimal signal loss, stable tap out value and maximum transfer. With a ground connection and a precision cast body it is an effective and durable solution.

Features

- Zinc plated housing, corrosion resistance
- Double Mounting Taps for easy installation
- Low insertion loss, stable tap-out high Isolation and return loss
- Concave soldered-back design for protection against RFI
- Connector : F female, 75Ω

MHz / Part No.	Tap Loss (Tap In)(dB, min.)				Insertion Loss (dB, min.)				Tap Out (Insolation) (dB, min.)				Reflection Loss (dB, min.)				Tap to Tap Isolation (dB)			
	5-65	65-550	550-750	750-1000	5-65	65-550	550-750	750-1000	5-65	65-550	550-750	750-1000	5-65	65-550	550-750	750-1000	5-65	65-550	550-750	750-1000
1-Way Indoor Tap																				
308-ITPV01-0008	8				≤2.0	≤1.6	≤1.8	≤2.2	≥20	≥24	≥23	≥22	≥16	≥16	≥16	≥16	nil			
308-ITPV01-0010	9.8				≤2.0	≤1.6	≤1.8	≤2.2												
308-ITPV01-0014	14.2				≤1.5	≤1.0	≤1.4	≤1.6	≥28	≥30				≥18						
308-ITPV01-0016	15.8				≤0.8	≤0.7	≤1.0	≤1.2	≥32	≥32	≥25	≥24								
2-Way Indoor Tap																				
308-ITPV02-0008	≤7.2	≤7.2	≤7.5	≤7.8	≤3.7	≤3.7	≤4.0	≤4.2	≥25	≥28	≥28	≥25	≥16	≥16	≥16	≥16	≥25	≥28	≥28	≥25
308-ITPV02-0016	16				≤1.8	≤1.5	≤1.6	≤1.9	≥26	≥26	≥22	≥22								
308-ITPV02-0018	18				≤1.5	≤1.0	≤1.4	≤1.6			≥26	≥24								
308-ITPV02-0020	20				≤0.8	≤0.7	≤1.0	≤1.2	≥30	≥30	≥28			≥18						
3-Way Indoor Tap																				
308-ITPV03-0009	≤9.2	≤9.2	≤9.3	≤9.5	≤3.7	≤3.7	≤4.0	≤4.2	≥25	≥28	≥28	≥25	≥16	≥16	≥16	≥16	≥25	≥28	≥28	≥25
308-ITPV03-0010	≤9.2	≤9.2	≤9.5	≤9.8	≤3.7	≤3.7	≤4.0	≤4.2												
308-ITPV03-0016	16				≤2.0	≤1.6	≤1.8	≤2.0												
308-ITPV03-0018	18				≤1.8	≤1.5	≤1.6	≤1.9	≥23	≥26	≥26	≥23					≥23	≥26	≥26	≥23
308-ITPV03-0020	20				≤1.5	≤1.0	≤1.4	≤1.6												
4-Way Indoor Tap																				
308-ITPV04-0011	≤12.2	≤11.2	≤12.0	≤12.3	≤3.7	≤3.7	≤4.0	≤4.2	≥23	≥26	≥26	≥23	≥16	≥16	≥16	≥16	≥23	≥26	≥26	≥23
308-ITPV04-0012	12				≤2.0	≤1.8	≤1.8	≤2.2												
308-ITPV04-0016	16				≤2.0	≤1.8	≤1.8	≤2.0	≥22	≥25	≥25	≥22					≥22	≥25	≥25	≥22
308-ITPV04-0018	18				≤1.8	≤1.5	≤1.6	≤1.9												
308-ITPV04-0020	20				≤1.5	≤1.0	≤1.4	≤1.6												
308-ITPV04-0022	22				≤0.8	≤0.7	≤1.0	≤1.2	≥23	≥26	≥26	≥23					≥23	≥26	≥26	≥23
308-ITPV04-0024	24				≤0.8	≤0.7	≤1.0	≤1.2												

Also available in 5, 6, 8, 10, 12 ,14 and 16 ways.

CATV INDOOR SATELLITE SPLITTERS (3GHZ)

Description

Alantek 3Ghz Satellite Splitter is designed with high grade circuitry for minimal signal loss and maximum transfer. With a ground connection and a precision cast body it is an effective and durable solution.

Features

- Zinc plated housing, corrosion resistance
- Double Mounting Taps for easy installation
- Low insertion loss, high Isolation and Return loss
- All ports with blocking capacitors
- Concave soldered-back design for protection against RFI
- Connector : F female, 75Ω

MHz / Part #	Insertion Loss (dB, max)						Out to Out Isolation (dB, min)						Return Loss In and Out (dB, min)					
	5 - 47	47 - 470	470 - 900	900 - 2050	2050 - 2150	2150 - 2400	5 - 47	47 - 470	470 - 900	900 - 2050	2050 - 2150	2150 - 2400	5 - 47	47 - 470	470 - 900	900 - 2050	2050 - 2150	2150 - 2400
2-Way Indoor Satellite Splitters (3ghz)																		
308-ISPV02-3G00	4.0	4.5	4.8	4.8	5.2	5.8	10	15	15	18	18	18	8	8	8	10	10	10
4-Way Indoor Satellite Splitters (3ghz)																		
308-ISPV04-3G00	8.0	8.5	9.0	10	12	13	10	10	10	10	10	10	18	18	18	18	18	18
8-Way Indoor Satellite Splitters (3ghz)																		
308-ISPV08-3G00	13	14	15	16	17	23	20	20	20	18	18	18	9	9	9	10	10	10

MHz / Part #	Insertion Loss (dB, max)							Out to Out Isolation (dB, min)							Return Loss In and Out (dB, min)						
	5 - 47	47 - 470	470 - 1000	1000 - 1750	1750 - 2150	2150 - 2300	2300 - 2400	5 - 47	47 - 470	470 - 1000	1000 - 1750	1750 - 2150	2150 - 2300	2300 - 2400	5 - 47	47 - 470	470 - 1000	1000 - 1750	1750 - 2150	2150 - 2300	2300 - 2400
3-way Indoor Satellite Splitters (3ghz)																					
308-ISPV03-3G00	8.5	8.2	9.0	10.5	11.5	12.5	13.5	15	20	20	15	15	15	15	8	10	10	8	8	8	8
6-way Indoor Satellite Splitters (3ghz)																					
308-ISPV06-3G00	11.5	12	12.5	15	16.5	17.5	18.5	18	20	18	15	15	15	15	6/8	8/10	8/10	8/10	8/10	8/10	8/10

CATV OUTDOOR SPLITTERS

Description

Alantek CATV Outdoor Splitter is designed with high grade circuitry for minimal signal loss and maximum transfer. With a ground connection and a precision cast body it is an effective and durable solution.

Features

- Cast aluminium waterproof housing, corrosion resistance
- Low insertion loss, high Isolation and return loss
- Standard F connector interface, 75Ω
- Power passing : 10A

MHz / Part #	Insertion Loss (dB, max)				Out to Out Isolation (dB, min)				Return Loss In and Out (dB, min)			
	5-65	65-550	550-750	750-1000	5-65	65-550	550-750	750-1000	5-65	65-550	550-750	750-1000
2-Way CATV Outdoor Splitter												
308-OSPV02-B000	≤4.5	≤4.8	≤5.2	≤6.0	≥18	≥22	≥22	≥20	≥13	≥14	≥14	≥14
3-Way CATV Outdoor Splitter												
308-OSPV03-B000	≤8.5	≤8.5	≤8.8	≤9.2	≥18	≥22	≥22	≥20	≥12	≥14	≥14	≥14
4-Way CATV Outdoor Splitter												
308-OSPV04-0000	≥7.2	≥7.5	≥7.8	≥8.0	≥22	≥28	≥28	≥25	≥16	≥16	≥16	≥16
CATV Outdoor Power Inserter												
308-PIPV01-0000	≤1.0	≤1.0	≤2.5	≤2.5	≥35	≥35	≥25	≥20	≥14	≥14	≥14	≥14

CATV OUTDOOR TAPS

Description

Alantek CATV Outdoor Tap is designed with high grade circuitry for minimal signal loss, stable tap out value and maximum transfer. With a ground connection and a precision cast body it is an effective and durable solution.

Features

- Cast aluminium waterproof housing, corrosion resistance
- Low insertion loss, stable tap-out, high Isolation and return loss
- Standard 5/8 coaxial cable interface, 75Ω
- Power passing : 10A

MHz / Part #	Tap Loss (Tap In)(dB, min.)				Insertion Loss (dB, min.)				Tap Out (Insolation) (dB, min.)				Reflection Loss (dB, min.)				Tap to Tap Isolation (dB)			
	15-65	65-550	550-750	750-1000	15-65	65-550	550-750	750-1000	15-65	65-550	550-750	750-1000	15-65	65-550	550-750	750-1000	15-65	65-550	550-750	750-1000
Directional Coupler																				
308-DCPV01-0008	8 ±1.5	8 ±1.5	8 ±1.7	8 ±2.0	≤3.5	≤3.8	≤4.5	≤5.2	≥18	≥20	≥20	≥20	≥13	≥14	≥14	≥14				
308-DCPV01-0012	12 ±1.5	12 ±1.5	12 ±1.7	12 ±2.0	≤3.0	≤3.4	≤3.7	≤4.0	≥18	≥20	≥20	≥20	≥13	≥14	≥14	≥14				
308-DCPV01-0016	16 ±1.5	16 ±1.5	16 ±1.7	16 ±2.0	≤2.5	≤2.5	≤2.8	≤3.2	≥20	≥21	≥21	≥21	≥13	≥14	≥14	≥14				
308-DCPV01-0020	20 ±1.5	20 ±1.5	20 ±1.7	20 ±2.0	≤2.5	≤2.5	≤2.8	≤3.2	≥20	≥21	≥21	≥21	≥13	≥14	≥14	≥14				
2-Way Outdoor Tap																				
308-OTPV02-0010	10 ±1.5	10 ±1.5	10 ±1.7	10 ±2.0	≤4.0	≤4.5	≤4.8	≤5.5	≥18	≥22	≥21	≥20	≥13	≥14	≥14	≥14	≥18	≥23	≥21	≥20
308-OTPV02-0012	12 ±1.5	12 ±1.5	12 ±1.7	12 ±2.0	≤3.5	≤3.5	≤4.2	≤5.0												
4-Way Outdoor Tap																				
308-OTPV04-0008	8 ±1.5	8 ±1.7	8 ±2.0	8 ±2.5	-	-	-	-	-	-	-	-	≥12	≥14	≥14	≥14	≥20	≥22	≥21	≥20
308- OTPV04-0011	11 ±1.5	11 ±1.7	11 ±2.0	11 ±2.5	≤4.5	≤4.8	≤5.2	≤5.8	≥20	≥23	≥21	≥20								
308- OTPV04-0014	14 ±1.5	14 ±1.7	14 ±2.0	14 ±2.5	≤4.0	≤4.5	≤5.0	≤5.5												
308- OTPV04-0017	17 ±1.5	17 ±1.7	17 ±2.0	17 ±2.5	≤3.0	≤3.5	≤4.0	≤4.5												
308- OTPV04-0020	20 ±1.5	20 ±1.7	20 ±2.0	20 ±2.5	≤2.5	≤2.8	≤3.0	≤3.5												
308- OTPV04-0023	23 ±1.5	23 ±1.7	23 ±2.0	23 ±2.5																
8-Way Outdoor Tap																				
308-OTPV08-0011	11 ±1.5	11 ±1.7	11 ±2.0	11 ±2.5	-	-	-	-	-	-	-	-	≥12	≥14	≥13	≥12	≥20	≥22	≥21	≥20
308- OTPV08-0014	14 ±1.5	14 ±1.7	14 ±2.0	14 ±2.5	≤4.5	≤4.8	≤5.2	≤5.8	≥20	≥23	≥21	≥20								
308- OTPV08-0017	17 ±1.5	17 ±1.7	17 ±2.0	17 ±2.5	≤4.0	≤4.5	≤5.0	≤5.5												
308- OTPV08-0020	20 ±1.5	20 ±1.7	20 ±2.0	20 ±2.5	≤3.0	≤3.5	≤4.0	≤4.5												
308- OTPV08-0023	23 ±1.5	23 ±2.0	23 ±2.5	23 ±3.0	≤2.5	≤2.8	≤3.0	≤3.5												
308- OTPV08-0026	26 ±1.5	26 ±2.0	26 ±2.5	26 ±3.0																

CATV CHANNEL MODULATOR

Description

A headend equipment for adjacent channel modulation of image and acoustical signals. Medium frequency treatment technique and phase locked loop technology are adopted to improve frequency stability and reduce signal distortion. It's the best choice for large and medium-sized CATV systems.

Features

- High performance Surface Acoustic Wave Filters and Spiral Bandpass Filters are adopted to improve out-of-band rejection.
- Independent RF Power Amplifiers are inside. The output level is up to over 110dBμV.
- Vision signal modulation, audio deviation, A/V ratio and output level can be adjusted on the front panel.
- Automatic storage and channel retention after power off

Item	Unit	308-FMC680-0000	308-AMC78B-0000
RF Parameter			
Frequency Range	MHz	47~860	45~879
Output Level	dBμV	110 ±(20 dBm Adjustable)	≤ 110 ±(20 dBm Adjustable)
Output Impedance	Ω	75	
Output Return Loss	dB	≥ 12	14
Video Parameter			
Input Level	Vp-p	0.7~1.4	1.0
Modulation	%	87.5	
Differential Gain	%	≤ 3	2.5
Differential Phase	°	≤ 3	2.5
S/N Ratio	dB	≥ 51	50
C/L Delay	ns	≤ 40	
Audio Parameter			
Input Level		0.7~1.4 Vp-p	+5 to +25 dBmv
Input Impedance	Ω	600 (Unbalance)	>10k
Pre-emphasis	μs	50	
Distortion	%	≤ 1.5	0.4
Frequency Response	B	±2 (50Hz~15KHz)	1.5
Audio to Noise ratio	dB	≥ 55	52
General			
Supply Voltage	V	~220V ±15%(50Hz)	
Dimension	mm	483 x 200 x 44(1U)	

Part #	Description
308-FMC680-0000	860MHz Adjacent Channel Modulator
308-AMC78B-0000	860MHz Adjacent Channel Agile Modulator

CATV COMBINER

Features

- High isolation
- Low loss
- Compound use and direct connection
- Suitable for various large and small-size networks front-end

Item	Unit	308-PCC680-0016	308-PCC680-0024
Input path number		16	24
Output path number		1	
Frequency range	MHz	5 - 862	
Insertion loss	dB	16	20.5
Mutual isolation	dB	≥ 26	
Flatness in band	dB	±1.5	
Return loss	dB	≥ 16	
Test port	dB	-20 ±1	
Input/output impedance	Ω	75	

Part #	Description
308-PCC680-0016	Passive Multipath 16-port Combiner
308-PCC680-0024	Passive Multipath 24-port Combiner

CATV BIDIRECTIONAL AMPLIFIER

Description

Bidirectional amplifier is mainly used for bidirectional transmission of CATV television image signal, digital TV signal, telephone voice signals and data (or compressed data) signal. These amplifiers are built for low power consumption, high reliability and high performance cost ratio.

Item	Unit	Indoor Bidirectional Amplifier 308-IA3086-3000	Outdoor Slim Bidirectional Amplifier 308-OA81KE-3800
Downlink(forward) Transmission Path			
Frequency Range	MHz	45/87~862	
Rated Gain	dB	30	38
Rated Input Level	dBμV	72	70
Rated Output Level	dBμV	102	108
Flatness in Band	dB	±1	±0.75
Noise Figure	dB	≤10	
Return Loss	dB	≥14	≥16
C/CTB	dB	≥ 58	≥ 66
C/CSO	dB	≥ 56	≥ 64
Group Delay	ns	≤ 10 (112.25 MHz/116.68 MHz)	
Signal to Hum Ratio	%	< 2	
Gain Stability	dB	-1.0 ~ +1.0	
Uplink(return) Transmission Path			
Frequency Range	MHz	5 ~ 65	
Rated Gain	dB	15	24
Maximum Output Level	dBμV	≥110	
Flatness in Band	dB	±0.75	
Noise Figure	dB	≤12	≤8
Return Loss	dB	≥16	
Signal to Hum Ratio	%	<2	
General Characteristic			
Characteristic Impedance	Ω	75	
Supply Voltage	V	AC(165 ~250)V	
Impulse Withstand Voltage	kV	> 5 (10/700μs)	
Power Consumption	W	8	≤20
Dimensions	mm	178(L) x 100(W) x 55(H)	220(L) x 205(W) x 65(H)

Part #	Description
308-IA3086-3000	Indoor Bidirectional Amplifier, 30dB
308-OA81KE-3800	Outdoor Slim Bidirectional Amplifier, 38dB

CATV Solutions

CATV OPTICAL TRANSMITTER

Description

Alantek have a wide range of Optical Transmission Equipment, from 1550nm EDFA transmitter to traditional 1310nm transmitter. With a variety of output ports and power.

Descriptions	Unit	1550nm CATV External Modulated EDFA Optical Transmitter 308-OT15E1-xxxx	1550nm CATV EDFA Optical Transmitter 308-OT15WE-xxxx	1310nm CATV Optical Transmitter 308-OT1386-xxxx
Optical Parameters				
Working Bandwidth	nm	1545~1560	1535 ~ 1565	1310 ±20
Output Optical Power	dBm	1x3, 1x5, 1x7	13 ~ 24	4 ~ 26
C/N	dB	≥ 52	≥ 51	≥ 51
C/CTB	dB	≥ 65	≥ 63	≥ 65
C/CSO	dB	≥ 65	≥ 63	≥ 60
Optical Connector Type			FC/APC or SC/APC	
General Characteristic				
Power Voltage	V	AC 90V~265V	AC 160V~250V	AC 150V~265V
Power Consumption	W	< 60		≤ 30
Working Temperature Range	d'	-5 ~ +50	-5 ~ +55	0 ~ +45
Storage Temperature Range	d'		-30~+70	
Overall Dimension	mm	483(L) x 455(W) x 44(H) 1U	483(L) x 380(W) x 44(H) 1U	483(L) x 395(W) x 44(H) 1U

Part #	Description
308-OT15E1-0700	1550nm CATV External Modulated EDFA Optical Transmitter, 1 x 7dBm
308-OT15WE-1900	1550nm CATV EDFA Optical Transmitter, 1 x 19dBm
308-OT1386-13G0	1310nm CATV Optical Transmitter, 1 x 13dBm

* Multiple output ports and power available at request

CATV OPTICAL RECEIVER

Description

Alantek have a wide range of Optical Receiver Equipment, from indoor model to outdoor. With a dynamic AGC Optical input range and variety of 2 and 4 output ports.

Descriptions	Unit	Indoor Bidirectional Optical Receiver 308-IRJL02-00Bx	Outdoor Bidirectional Optical Receiver 308-OR86LJ-00B2	Outdoor Bidirectional Optical Receiver 308-OR86JD-00B4
Optical Parameters				
Receive Optical Power	dBm	-9 ~ +2		
Optical Return Loss	dB	>45		
Optical Receiving Wavelength	nm	1100 ~ 1600		
Optical Connector Type		FC/APC, SC/APC		
Fiber Type		Single Mode		
C/N	dB	≥ 51		
C/CTB	dB	≥ 65		
C/CSO	dB	≥ 60		
RF parameters				
Frequency Range	MHz	45 ~862		
Max Output Level	dBμV	≥ 114		≥ 112
Output Impedance	Ω			
Storage Temperature Range	d'	75		
Overall Dimension	mm	483(L) x 455(W) x 44(H) 1U	483(L) x 380(W) x 44(H) 1U	483(L) x 395(W) x 44(H) 1U
Reverse Optical Transmit Part				
Optical Emission Wavelength	nm	1310±10 or 1550±10 (or specified by the user)		
Output Optical Power	mW	1 (or 0.5, 2.0)		
Optical Connector Type		FC/APC, SC/APC		
RF Parameters				
Frequency Range	MHz	5 ~ 65		
Input Level	dBμV	72 ~85		
Output Impedance	Ω	75		
General Characteristic				
Power Voltage	V	AC 150~265	AC 150~265 or AC 35~90	
Operating Temperature	℃	-20 ~ +55		
Storage Temperature	℃	-30~65		
Power Consumption	VA	≤ 30	≤ 25	≤ 30
Dimension	mm	483(L) x 345(W) x 44(H)	260(L) x 200(W) x 130(H)	240(L) x 240(W) x 150(H)

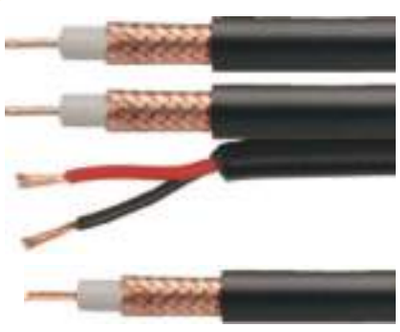
Part #	Description
308-IRJL02-00B2	Indoor Bidirectional Optical Receiver, 2-port output
308-IRJL02-00B4	Indoor Bidirectional Optical Receiver, 4-port output
308-OR86LJ-00B2	Outdoor Bidirectional Optical Receiver, 2-port
308-OR86JD-00B4	Outdoor Bidirectional Optical Receiver, 4-port

* Available in 1003MHz model at request
* More models combinations are available at request

CCTV COAXIAL CABLES (COPPER BRAID)

Description

Alantek CCTV (Closed circuit Television) coaxial cable includes RG59 and RG6 series, are built to excel in video quality and distance. Nitrogen-CO2 Foamed Polyethylene can achieved excellent transmission property and heavily shielded to minimize interference and provide proper base-band performance.



Frequency Performance

Freq (MHz	RG 59		RG 6		RG 11	
	Max (db/100ft)	Max (db/100m)	Max (db/100ft)	Max (db/100ft)	Max (db/100ft)	Max (db/100ft)
5 MHz	0.80	2.60	0.58	1.90	0.38	1.25
55 MHz	2.03	6.67	1.60	5.25	0.96	3.15
211 MHz	3.77	12.35	3.05	10.00	1.90	6.23
250 MHz	4.10	13.45	3.30	10.82	2.05	6.72
350 MHz	4.76	15.60	3.85	12.63	2.42	7.94
400 MHz	5.05	16.57	4.15	13.61	2.60	8.53
450 MHz	5.35	17.55	4.40	14.43	2.75	9.02
500 MHz	5.65	18.52	4.66	15.09	2.90	9.51
550 MHz	5.90	19.33	4.90	16.08	3.04	9.97
600 MHz	6.14	20.14	5.10	16.73	3.18	10.43
750 MHz	6.91	22.65	5.65	18.54	3.65	11.97
865 MHz	7.45	24.43	6.10	20.01	3.98	13.05
1000 MHz	8.05	26.38	6.55	21.49	4.35	14.27

		RG59	RG59 + 2 x 0.50mm²	Flexible RG59	RG6	RG6 + 2 x 0.75mm²	Flexible RG6	RG11
Recommended Distance		160 ~ 230 meter			250 ~ 350 meter			450 ~ 600 m
Recommended Voltage			110 to 220V			110 to 220V		
Conductor	Material	Solid Copper		Stranded 7 x 30	Solid Copper		Stranded 7 x 27	Solid Copper
	Diameter	20 AWG			18 AWG			14 AWG
Dielectric	Material	Foam PE			Foam PE			Foam PE
	Diameter	3.66mm			4.57mm			7.11mm
Shield	Material	95% Copper			95% Copper			95% Copper
Jacket	Material	UV Black PVC			UV Black PVC			UV Black PVC
	Thickness	0.81mm			0.81mm			1.07mm
	Diameter	6.0mm	6.0 x 4.3mm	6.0mm	6.8mm	6.8 x 4.85mm	6.8mm	10.03mm
Power Conductor	Material		Stranded Copper			Stranded Copper		
	Size		2 x 0.50mm2			2 x 0.75mm2		
	Insulation		PE (Red, Black)			PE (Red, Black)		
	Diameter		1.7mm			1.95mm		

CCTV Solutions

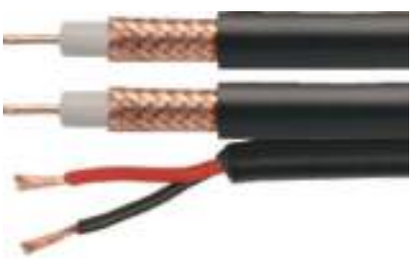
Part #	Description
301-RG5900-SSBK-14F3	CCTV RG59 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CU Braid, PVC Black, 305m
301-RG0600-SSBK-14F3	CCTV RG6 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CU Braid, PVC Black, 305m
301-RG1100-SSBK-14F3	CCTV RG11 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CU Braid, PVC Black, 305m
301-RG590C-SSBK-14F3-0500	CCTV RG59 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CU Braid, with 2-Core 0.50mm2 Power conductor, PVC Black, 305m
301-RG060C-SSBK-14F3-0700	CCTV RG6 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CU Braid, with 2-Core 0.75mm2 Power conductor, PVC Black, 305m
301-RG5900-SSBK-15F3	CCTV Flexible RG59 Coaxial Cable 75 Ohms, Stranded Copper Conductor, 95% CU Braid, PVC Black, 305m
301-RG0600-SSBK-15F3	CCTV Flexible RG6 Coaxial Cable 75 Ohms, Stranded Copper Conductor, 95% CU Braid, PVC Black, 305m

CCTV Solutions

CCTV COAXIAL CABLES (CCA BRAID)

Description

Alantek CCTV (Closed circuit Television) coaxial cable includes RG59 and RG6 series, are built for optimal video quality. Nitrogen-CO2 Foamed Polyethylene can achieved excellent transmission property and CCA (Copper Clad Aluminum) braid shielded to minimize interference and provide proper base-band performance.



Frequency Performance

Freq (MHz	RG 59		RG 6	
	Max (db/100ft)	Max (db/100m)	Max (db/100ft)	Max (db/100ft)
5 MHz	0.80	2.60	0.58	1.90
55 MHz	2.03	6.67	1.60	5.25
211 MHz	3.77	12.35	3.05	10.00
250 MHz	4.10	13.45	3.30	10.82
350 MHz	4.76	15.60	3.85	12.63
400 MHz	5.05	16.57	4.15	13.61
450 MHz	5.35	17.55	4.40	14.43
500 MHz	5.65	18.52	4.66	15.09
550 MHz	5.90	19.33	4.90	16.08
600 MHz	6.14	20.14	5.10	16.73
750 MHz	6.91	22.65	5.65	18.54
865 MHz	7.45	24.43	6.10	20.01
1000 MHz	8.05	26.38	6.55	21.49

		RG59	RG59 + 2 x 0.50mm²	RG6	RG6 + 2 x 0.75mm²
Recommended Distance		< 160 meter		< 220 meter	
Recommended Voltage			110 to 220V		110 to 220V
Conductor	Material	Solid Copper		Solid Copper	
	Diameter	20 AWG		18 AWG	
Dielectric	Material	Foam PE		Foam PE	
	Diameter	3.66mm		4.57mm	
Shield	Material	95% CCA			
Jacket	Material	UV Black PVC			
	Thickness	0.81mm		0.81mm	
	Diameter	6.0mm	6.0 x 4.3mm	6.8mm	6.8 x 4.85mm
Power Conductor	Material		Stranded Copper		Stranded Copper
	Size		2 x 0.50mm2		2 x 0.75mm2
	Insulation		PE (Red, Black)		PE (Red, Black)
	Diameter		1.7mm		1.95mm

Part #	Description
301-RG5900-SSBK-14Y3	CCTV RG59 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CCA Braid, PVC Black, 305m
301-RG0600-SSBK-14Y3	CCTV RG6 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CCA Braid, PVC Black, 305m
301-RG590C-SSBK-14Y3-0500	CCTV RG59 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CCA Braid, with 2-Core 0.50mm2 Power conductor, PVC Black, 305m
301-RG060C-SSBK-14Y3-0700	CCTV RG6 Coaxial Cable 75 Ohms, Solid Copper Conductor, 95% CCA Braid, with 2-Core 0.75mm2 Power conductor, PVC Black, 305m

COMPRESSION BNC CONNECTOR

Description
This compression BNC connector series is a well proven design that secure the cable to the connector in a 360° compressed plastic sleeve.

Characteristics
- 1-piece design, simplify termination time.
- Assist-Pin for easy insertion and guide through. Pin will be fully flush with the connector when fully inserted.
- Double rubber O-ring to prevent moisture migration.
- Weather resistant Nickel-Tin Plated Brass body.

Physical Properties
Nut : Brass with Nickel Tin Plated
Collar : Brass with Nickel Tin Plated
Post : Brass with Tin Plated
O-Rings : Ethylene Propylene Rubber

Electrical Properties
Insertion Loss : ≤ 0.18 dB (up to 1GHz Typical)
RFI Shielding : -85 dB (up to 1GHz Typical)
Return Loss (min) :

Freq (MHz)	5 - 500	500 - 1000	1000 - 1750	1750 - 2000	2000 - 2400	2400 - 2610	2610 - 3000
3CN-CBSNS0-RG59	43 dB	43 dB	43 dB	43 dB	42 dB	42 dB	40 dB
3CN-CBSNS0-RG06	33 dB	32 dB	29 dB	29 dB	28 dB	27 dB	27 dB
3CN-CBSNS0-RG11	29 dB	27 dB	25 dB	24 dB	23 dB	23 dB	22 dB

Mechanical Properties

	Cable Insertion Force	Cable Retention	
		Min (Complies to SCTE IPS-SP-401)	Max
3CN-CBSNS0-RG59	< 9 kg (20 lbs)	18 kg (40 lbs)	21.0 kg (46.3 lbs)
3CN-CBSNS0-RG06			26.5 kg (58.4 lbs)
3CN-CBSNS0-RG11			51.5 kg (113.4 lbs)

Environmental Properties
Operation Temperature : -40°C to 60°C (-40°F to 140°F)
Moisture Migration : Complies to ANSI/SCTE 60 2004

Part #	Description	Center conductor size (mm)	Post I.D. (dielectric with shield) (mm)	Sleeve I.D. (outer jacket) (mm)	Sleeve Colour	Tool
3CN-CBSNS0-RG59	RG59 Compression BNC Connector	-	3.66 - 3.99	5.89 - 6.93	Red	CBJ561 / CJR561
3CN-CBSNS0-RG06	RG6 Compression BNC Connector	-	4.57 - 4.90	6.73 - 7.75	Green	CBJ561 / CJR561
3CN-CBSNS0-RG11	RG11 Compression BNC Connector	1.61 - 1.64	7.11 - 7.47	9.91 - 10.59	Black	CBJ561

302-CBJ561-0000
Deluxe Compression tool for SNS Series

302-CJR561-0000
Compression tool for SNS Series

302-CSP561-J000
Coax Cable Stripper for RG59/6/7/11

FAST ETHERNET SWITCH (PoE OPTION)

Description

Alantek Desktop/Wall Mount and Rack Mount Fast Ethernet Switch is an entry level industrial grade design. Suitable for small commercial ITS and DCS Ethernet system. Multiple Fast Ethernet port couple with 1 to 16 fiber port to ensure performance bandwidth.

Characteristics

- Plug and Play configuration
- Support store and forward transmission
- Supports 10 KB jumbo frames
- Broadcast storm protection
- Transparent transmission of VLAN tagged packets
- No fan, low consumption, EMC-4 grade design
- All port anti-lighting (6KV)
- 3KV isolation protection
- IP30 protection, metal shell
- Operating Temperature: -20 ~ 60 °C

Optional - PoE/PoE+

	Part #	Description	Fiber Port	PoE (Total Power)	Mount Type	Dimension (mm)
1000 Series	3ES-08F01F-2UUI	8 Port Fast Ethernet Switch	1 Duplex SC 100-BaseFX	-	Desk / Wall	160 x 115 x 40
	3ES-16F2GX-2UUI	16 Port Fast Ethernet Switch	2 Duplex SC 1000-BaseFX/ combo/ 2 Port Fast Ethernet	150W (-F150) 300W (-T300)-	Rack, 1U	441 x 206 x 45
	3ES-24F2GX-2UUI	24 Port Fast Ethernet Switch and 1 Port Gigabit Ethernet Switch	2 Duplex SC 1000-BaseFX/ combo/ 2 Port Fast Ethernet	150W (-F150) 300W (-T300)	Rack, 1U	441 x 206 x 45
	3ES-02G16F-2UUI	2 Port Gigabit Ethernet Switch	16 Duplex SC 100-BaseFX	-	Rack, 1U	441 x 206 x 45
3000 Series	3ES-01F01F-2UUI	1 Port Fast Ethernet Switch	1 Duplex SC 100-BaseFX	30W (-T030)	Desk / Wall	185 × 134 × 35
	3ES-04F01F-2UUI	4 Port Fast Ethernet Switch	1 Duplex SC 100-BaseFX	65W (-F065) 120W (-T120)	Desk / Wall	185 × 134 × 35
	3ES-04FN1G-0UUI	4 Port Fast Ethernet Switch and 1 Port Gigabit Ethernet Switch	-	65W (-F065) 120W (-T120)	Desk / Wall	135 × 123 × 35
	3ES-08F01G-2UUI	8 Port Fast Ethernet Switch	1 Duplex SC 100-BaseFX	150W (-F150) 300W (-F300)	Desk / Wall	290 x 165 x 45
	3ES-08F02G-2UUI	8 Port Fast Ethernet Switch	2 Duplex SC 1000-BaseFX	150W (-F150) 300W (-F300)	Desk / Wall	290 x 165 x 45
	-xyza			-bccc <-	Please include this part number extension for PoE option.	

Substitute : x: fiber connector, **1**=ST, **2**=SC, **3**=FC, **7**=LC.
y: **U**=Unmanage, **M**=Managed.
z: **E**= Europe Adapter/plug, **U**= U.S. Adapter/plug.
a: **X**=External Power, **I**=External Power
b: **F**=15.4W, T=25.5W.
ccc: wattage

**Example : 3ES-01F01F-2UUI-T030 , 1 Port Fast Ethernet Switch with 30W PoE*
3ES-01F01F-2UUI , 1 Port Fast Ethernet Switch

GIGABIT ETHERNET SWITCH (POE OPTION)

Description

Alantek Desktop/Wall Mount and Rack Mount Gigabit Ethernet Switch is an entry level industrial grade design. Suitable for upgrading existing ITS and DCS Fast Ethernet system. Multiple gigabit Ethernet port couple with 1 to 12 fiber port to ensure performance bandwidth.

Characteristics

- Plug and Play configuration
- Support store and forward transmission
- Supports 10 KB jumbo frames
- Broadcast storm protection
- Transparent transmission of VLAN tagged packets
- No fan, low consumption, EMC-4 grade design
- All port anti-lighting (6KV)
- 3KV isolation protection
- IP30 protection, metal shell
- Operating Temperature: -20 ~ 60 °C

Optional - PoE/PoE+

	Part #	Description	Fiber Port	PoE (Total Power)	Mount Type	Dimension (mm)
1000 Series	3ES-04G01G-2UUI	4 Port Gigabit Ethernet Switch	1 Duplex SC 1000-BaseFX	-	Desk / Wall	125 x 109 x 32
	3ES-08G01G-2UUI	8 Port Gigabit Ethernet Switch	1 Duplex SC 1000-BaseFX	-	Desk / Wall	160 x 115 x 40
3000 Series	3ES-01G01G-2UUI	1 Port Gigabit Ethernet Switch	1 Duplex SC 1000-BaseFX	30W (-T030)	Desk / Wall	185 × 134 × 35
	3ES-04G02G-2UUI	4 Port Gigabit Ethernet Switch	2 Duplex SC 1000-BaseFX	65W (-F065) 120W (-T120)	Desk / Wall	135 × 123 × 35
	3ES-05G01G-2UUI	5 Port Gigabit Ethernet Switch	1 Duplex SC 1000-BaseFX	65W (-F065) 120W (-T120)	Desk / Wall	135 × 123 × 35
	3ES-08G02G-2UUI	8 Port Gigabit Ethernet Switch	2 Duplex SC 1000-BaseFX	150W (-F150) 300W (-T300)	Desk / Wall	320 x 205 x 45
	3ES-12G04G-2UUI	12 Port Gigabit Ethernet Switch	4 Duplex SC 1000-BaseFX	300W (-T300)	Desk / Wall	320 x 205 x 45
	3ES-12G12G-2UUI	12 Port Gigabit Ethernet Switch	12 Duplex SC 1000-BaseFX	300W (-T300)	Rack, 1U	441 x 206 x 45
	3ES-24G02G-2UUI	24 Port Gigabit Ethernet Switch	2 Duplex SC 1000-BaseFX	300W (-F300) 300W (-T600)	Rack, 1U	441 x 206 x 45
	-xyza			-bccc <-	Please include this part number extension for PoE option.	

Substitute :

x: fiber connector, **1**=ST, **2**=SC, **3**=FC, **7**=LC.
y: **U**=Unmanage, **M**=Managed.
z: **E**= Europe Adapter/plug, **U**= U.S. Adapter/plug.
a: **X**=External Power, **I**=External Power
b: **F**=15.4W, **T**=25.5W.
ccc: wattage

**Example : 3ES-01G01G-2UUI-T030 , 1 Port Gigabit Ethernet Switch with 30W PoE*
3ES-01G01G-2UUI, 1 Port Gigabit Ethernet Switch

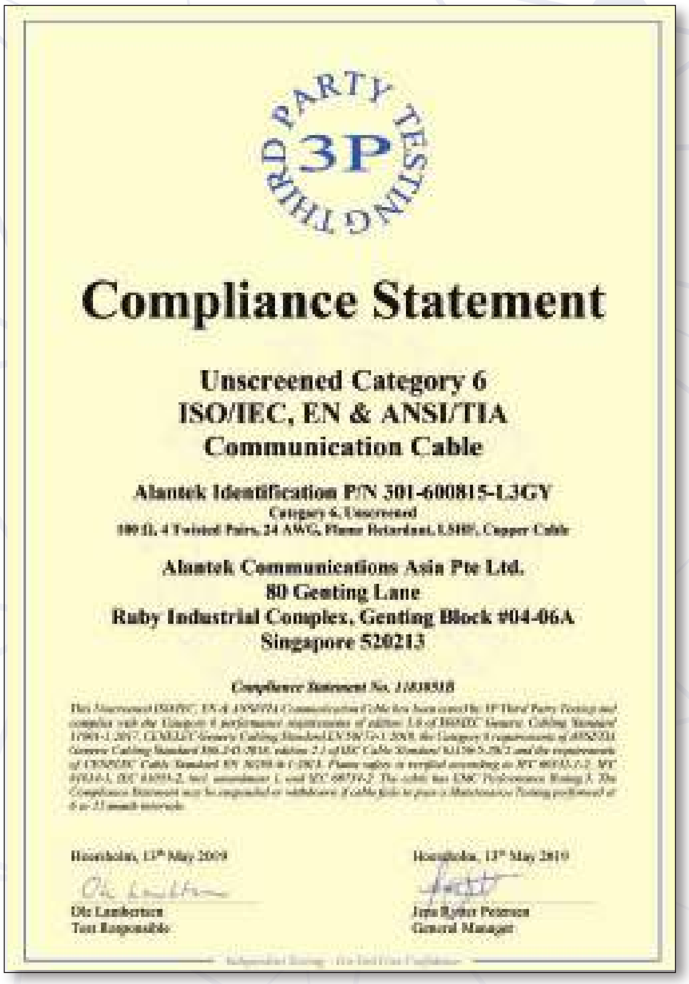
SFP (SMALL FORM-FACTOR PLUGGABLE) FIBER MODULES

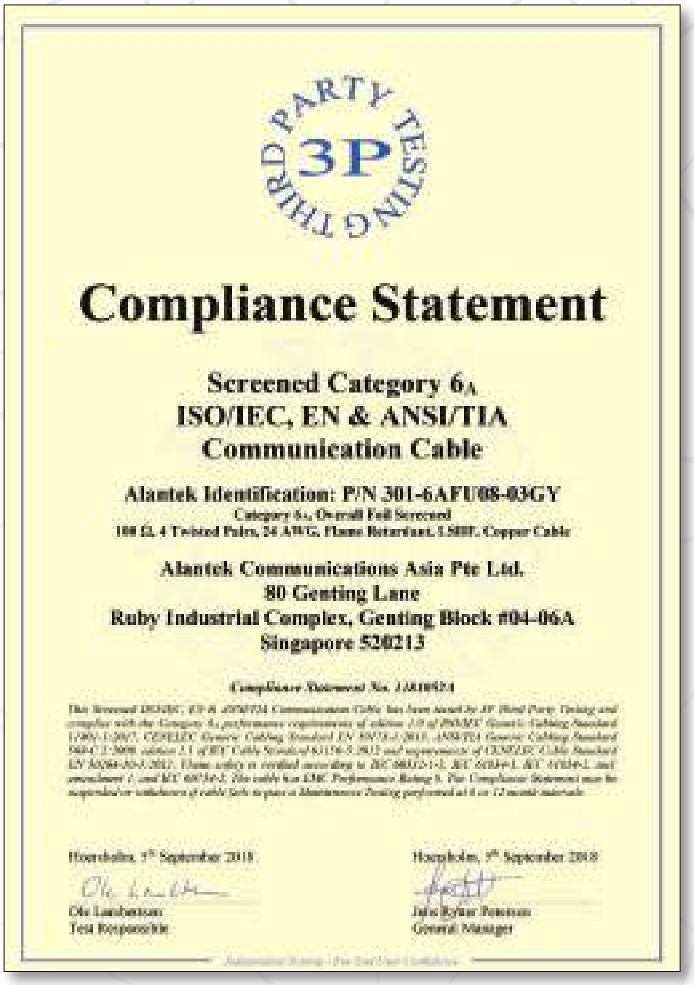
Description

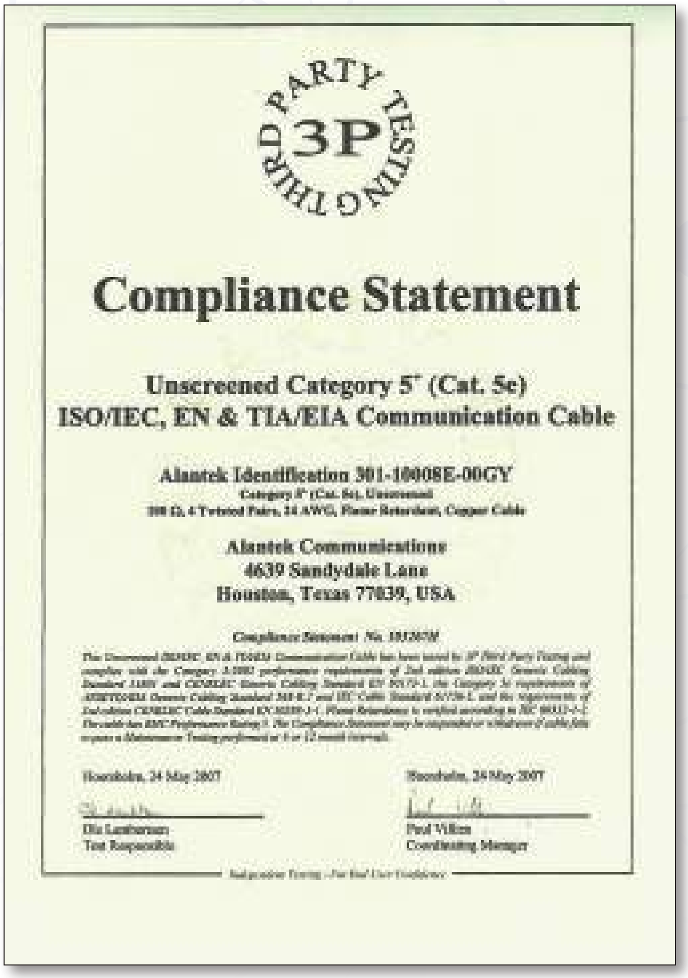
Alantek offer a variety of SFP and SFP+ modules from traditional duplex fiber to WDM single fiber, 155M to 10G and ranges from 220m to 120km. Option of Digital Diagnostics Monitoring(DDM) can be requested. Which provide ability to monitor parameters of the SFP, such as optical output power, optical input power, temperature, laser bias current, and transceiver supply voltage, in real time.

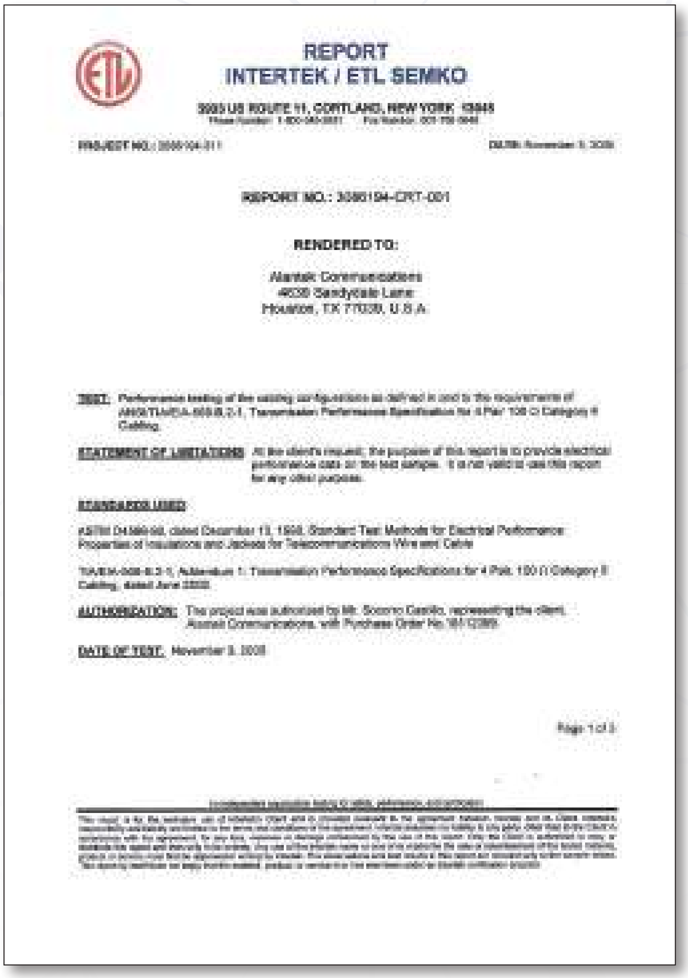
Part Number	Description	Data Rate	Wavelength (nm)	Pout (dBm)	Sensitivity (dBm)	Reach
3PT-DF3300-D020	155M SFP SM 1310nm FP 20KM Duplex-LC, DDM	155M	1310nm FP	-15~-3	≤ -32	20km
3PT-DF3300-D040	155M SFP SM 1310nm FP 40KM Duplex-LC, DDM	155M	1310nm FP	-8~-3	≤ -34	40km
3PT-DF5500-D080	155M SFP SM 1550nm DFP 80KM Duplex-LC, DDM	155M	1550nm DFB	-5~0	≤ -34	80km
3PT-DG8800-D0K5	1.25G SFP MM 850nm VCSEL 550m Duplex-LC, DDM	1.25G	850nm VCSEL	-8~-3	≤-19	550m
3PT-DG3300-D010	1.25G SFP SM 1310nm FP 10KM Duplex-LC, DDM	1.25G	1310nm FP	-8~-3	≤-22	10km
3PT-DG3300-D020	1.25G SFP SM 1310nm FP 20KM Duplex-LC, DDM	1.25G	1310nm FP	-8~-3	≤-22	20km
3PT-DG3300-D030	1.25G SFP SM 1310nm FP 30KM Duplex-LC, DDM	1.25G	1310nm FP	-5~0	≤-24	30km
3PT-DG3300-D040	1.25G SFP SM 1310nm FP 40KM Duplex-LC, DDM	1.25G	1310nm FP	-5~0	≤-24	40km
3PT-DG5500-D050	1.25G SFP SM 1550nm FP 50KM Duplex-LC, DDM	1.25G	1550nm FP	-5~0	≤-24	50km
3PT-DG5500-D080	1.25G SFP SM 1550nm DFB 80KM Duplex-LC, DDM	1.25G	1550nm DFP	-2~5	≤-24	80km
3PT-DG5500-D120	1.25G SFP SM 1550nm DFB ,SM,APD 120KM Duplex-LC, DDM	1.25G	1550nm DFP	-3~4	≤-32	120km
3PT-DH3300-D020	2.5G SFP SM 1310nm DFP 20KM Duplex-LC, DDM	2.5G	1310nm DFB	-8~-3	≤-22	20km
3PT-DH3300-D040	2.5G SFP SM 1310nm DFP 40KM Duplex-LC, DDM	2.5G	1310nm DFB	-5~0	≤-22	40km
3PT-DH3300-D060	2.5G SFP SM 1310nm DFP 60KM Duplex-LC, DDM	2.5G	1550nm DFB	0~5	≤-25	60km
3PT-DX8800-D0K2	10G SFP+ MM 850nm VCSEL 220m Duplex-LC, DDM	10G	850nm VCSEL	-5~-1	≤-12	220m
3PT-DX3300-D010	10G SFP+ SM 1310nm FP 10km Duplex-LC, DDM	10G	1310nm FP	-5~0	≤-13	10km
3PT-DX3300-D040	10G SFP+ SM 1310nm DFP 40km Duplex-LC, DDM	10G	1310nm DFP	-2~4	≤-14	40km
3PT-DX3300-D080	10G SFP+ SM 1310nm(ZR) DFP 80km Duplex-LC, DDM	10G	1550nm	0~5	≤-22	80km
3PT-SG35W0-D003	1.25G SFP SM WDM Tx1310/Rx1550 FP 3KM Simplex-LC, DDM	1.25G	Tx1310 / Rx1550	-12~-6	≤-22	3km
3PT-SG53W0-D003	1.25G SFP SM WDM Tx1550/Rx1310 DFP 3KM Simplex-LC, DDM	1.25G	Tx1550 / Rx1310	-12~-6	≤-22	3km
3PT-SG35W0-D020	1.25G SFP SM WDM Tx1310/Rx1550 FP 20KM Simplex-LC, DDM	1.25G	Tx1310 / Rx1550	-8~-3	≤-22	20km
3PT-SG53W0-D020	1.25G SFP SM WDM Tx1550/Rx1310 DFB 20KM Simplex-LC, DDM	1.25G	Tx1550 / Rx1310	-8~-3	≤-22	20km
3PT-SG35W0-D040	1.25G SFP SM WDM Tx1310/Rx1550 FP 40KM Simplex-LC, DDM	1.25G	Tx1310 / Rx1550	-5~0	≤-24	40km
3PT-SG53W0-D040	1.25G SFP SM WDM Tx1550/Rx1310 DFB 40KM Simplex-LC, DDM	1.25G	Tx1550 / Rx1310	-5~0	≤-24	40km
3PT-SG45W0-D060	1.25G SFP SM WDM Tx1490/Rx1550 DFP 60KM Simplex-LC, DDM	1.25G	Tx1490 / Rx1550	-5~0	≤-24	60km
3PT-SG54W0-D060	1.25G SFP SM WDM Tx1550/Rx1490 DFB 60KM Simplex-LC, DDM	1.25G	Tx1550 / Rx1490	-5~0	≤-24	60km
3PT-SG45W0-D080	1.25G SFP SM WDM Tx1490/Rx1550 DFP 80KM Simplex-LC, DDM	1.25G	Tx1490 / Rx1550	-2~5	≤-24	80km
3PT-SG54W0-D080	1.25G SFP SM WDM Tx1550/Rx1490 DFB 80KM Simplex-LC, DDM	1.25G	Tx1550 / Rx1490	-2~5	≤-24	80km
-xyyy	Substitute x: **0** = No DDM, **D** = DDM					

Certifications & Compliances









TEST CERTIFICATE

ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT

PSB Singapore

This Certificate is issued to

Alantek Communications Asia Pte Ltd
50 Genting Lane, Genting Block,
#04-06A, Ruby Industrial Complex
Singapore 349558

FOR

Product:	FIRE RESISTANT CABLE
Brand/Model:	ALANTEK
Detail:	CU/MGT/OSCR/LSOH Fire Resistant Cable Size: 1P x 1.5 mm²; Voltage: 300/500 V; Conductor: Stranded circular non-compacted plain copper wires (class 2); Fire-barrier: Mica Tape (2 layers); Insulation: XLPE – Black and White; Binder: Plastic tape; Drain wire: Tinned annealed solid copper wire; Screen: Laminated aluminium polyester tape; Oversheath: LSOH - Orange
Specification:	IEC 60331-21 : 1999
Test Report:	7191108813-EEC1701
Date of Test Report:	20 Nov 2017

Summary

A sample of the product has been tested and found to meet the requirements of the above specification.

TÜV SÜD PSB Pte Ltd

Certificate No:	Date of Original Issue:	Date of Last Revision:	Date of Expiry:
03515	23/11/2017	–	22/11/2019

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to the terms and conditions of the Test Certification Scheme.
Note: This Certificate is issued pursuant to the terms set out overleaf.

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive · Singapore 118221

TÜV

TEST CERTIFICATE

ZERTIFIKAT ◆ CERTIFICATE ◆ CERTIFICADO ◆ CERTIFICAT

PSB Singapore

This Certificate is issued to

Alantek Communications Asia Pte Ltd
50 Genting Lane, Genting Block,
#04-06A, Ruby Industrial Complex
Singapore 349558

FOR

Product:	FIRE RESISTANT CABLE
Brand/Model:	ALANTEK
Detail:	CU/MGT/OSCR/LSOH Fire Resistant Cable Size: 2P x 2.5 mm²; Voltage: 300/500 V; Conductor: Stranded circular non-compacted plain copper wires (class 2); Fire-barrier: Mica Tape (2 layers); Insulation: XLPE – Black and White; Binder: Plastic tape; Drain wire: Tinned annealed solid copper wire; Screen: Laminated aluminium polyester tape; Oversheath: LSOH - Orange
Specification:	IEC 60331-21 : 1999
Test Report:	7191108813-EEC1702
Date of Test Report:	20 Nov 2017

Summary

A sample of the product has been tested and found to meet the requirements of the above specification.

TÜV SÜD PSB Pte Ltd

Certificate No:	Date of Original Issue:	Date of Last Revision:	Date of Expiry:
03516	23/11/2017	–	22/11/2019

This Certificate is part of a full report and should be read in conjunction with it. This Certificate remains the property of TÜV SÜD PSB Pte Ltd and shall be returned upon request. The use of this Certificate is subjected to the terms and conditions of the Test Certification Scheme.
Note: This Certificate is issued pursuant to the terms set out overleaf.

TÜV SÜD PSB Pte Ltd • 1 Science Park Drive · Singapore 118221

TÜV

SGS

Test Report No. SHAEC1320693601 Date: 13 Nov 2013 Page 1 of 9

ALANTEK COMMUNICATIONS ASIA PTE LTD
50 GENTING LANE,RUBY LAND COMPLEX,BLK2#06-01,SINGAPORE 349558

The following sample(s) was/were submitted and identified on behalf of the clients as : Control And Communication Cable

SGS Job No. :	SP13-030584 - SH
Composition :	CU,HDPE,PVC,LSZH
Model No. :	(1)Un-shielded control cable sample:301-C9501-0000;(2) shielded control cable sample:301-C9501-6000;(3)shielded control cable LSZH sample:301-C9501-60LS
Date of Sample Received :	22 Oct 2013
Testing Period :	22 Oct 2013 - 29 Oct 2013
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted samples, the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II, recasting 2002/95/EC.

Signed for and on behalf of
SGS-CSTC Ltd.

Jil Fan
Approved Signatory

SHCM 5110376

CERTIFICATE OF REGISTRATION

The Quality Management Systems of

ALANTEK COMMUNICATIONS ASIA PTE. LTD.

50 Genting Lane, Genting Block, Ruby Industrial Complex, #04-06A, Singapore 349558

has been audited and found to conform to

ISO 9001:2015

for the following activities

Manufacturing and Trading of Data Cables, Fiber Cables, Control Instrumentation Cables and Accessories

Date of Issue: 05 June 2019 **Date of Expiry: 05 June 2022**

Initial Certification: 05 June 2019

Certificate No. 732787

The validity of this certificate can be verified from the following website
www.gicg.co.uk

Guardian Independent Certification Ltd

Accredited by Member of the IAF MLA

IAF

162065

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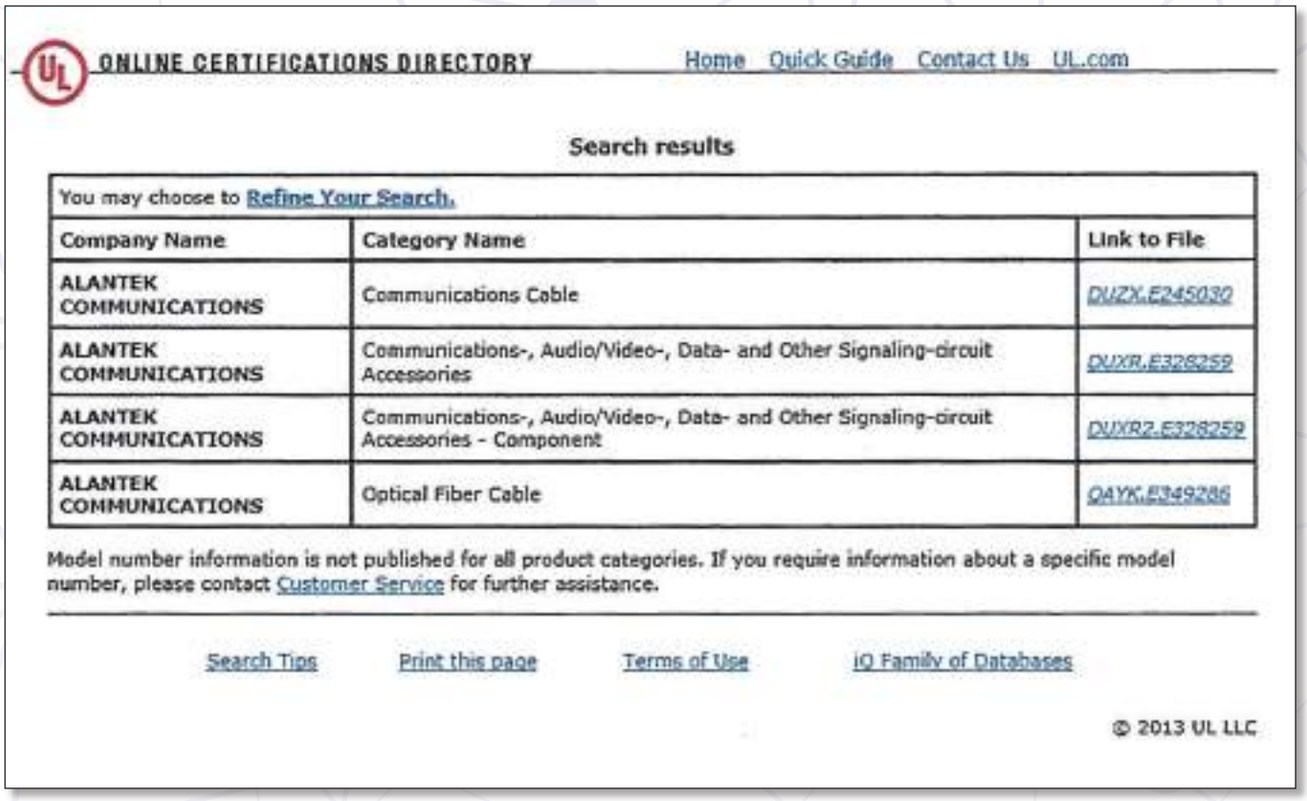

ONLINE CERTIFICATIONS DIRECTORY

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Search results

You may choose to Refine Your Search.

Company Name	Category Name	Link to File
ALANTEK COMMUNICATIONS	Communications Cable	DUZX.E245030
ALANTEK COMMUNICATIONS	Communications-, Audio/Video-, Data- and Other Signaling-circuit Accessories	DUXR.E328259
ALANTEK COMMUNICATIONS	Communications-, Audio/Video-, Data- and Other Signaling-circuit Accessories - Component	DUXR2.E328259
ALANTEK COMMUNICATIONS	Optical Fiber Cable	OAYK.E349286

Model number information is not published for all product categories. If you require information about a specific model number, please contact Customer Service for further assistance.

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WARRANTY STATEMENTS

System Warranty, 25 years

ALANTEK warrants its passive cabling products including jacks, patch panel, patch cords, information outlets, unshielded/shielded twisted pair cables, fiber optic cables to be free from defects in materials and workmanship for a period of 25 years following the effective date awarded.

ALANTEK also warrants that each product from the awarded list to meet the prescribed mechanical and transmission specification in ISO/IEC 11801, ANSI/TIA/EIA-568 B.1 standard.

All warranties shall be subject to the installation, testing, operation, maintenance practices and environmental conditions describe in the standard and with full compliance with all commercial building telecommunications standard.

Under the warranty program, ALANTEK Communication, at its discretion, may either replace the defective product itself at its own cost or pay an authorised ALANTEK installer the appropriate and necessary cost to repair or replace such defective product.

Product Warranty

5 year

Passive products; Cable, plugs, faceplate, cable manager, enclosure, outdoor enclosure, connector, CATV splitter and taps.

1 year

Active products; Media/Video Convertor, SFP, CATV equipment, FTTx equipment.

ALANTEK COMMUNICATIONS ASIA PTE LTD
80 Genting Lane, Genting Block, Ruby Industrial Complex,
#04-06A. Singapore 349565
Tel : (65) 6742 1289 | Fax no: (65) 6742 1239
Email: info@alantekusa.com
www.alantekusa.com