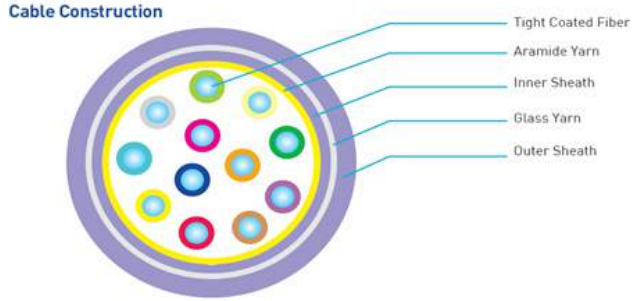


TIGHT TUBE NON-METALIC OPTICAL CABLES (INDOOR)



Product Description :

Indoor type tight coated type optical cables are applied to indoor/outdoor installation. These types of cables are designed for indoor/outdoor application and also protect optical fiber for the unexpected mechanical, enviromental and rodent protection conditions. Qualification and acceptance testing are performed to assure the optical cable's performance and durability in several enviroments

Features and Benefits

- ◆ Indoor fiber counts upto 12
- ◆ Light Weight
- ◆ High tensile Strength design
- ◆ Completely dry core design
- ◆ Small diameter
- ◆ Colored fiber for the quck identification

Applications

- ◆ Building Interconnection
- ◆ Campus
- ◆ Local Area Connection

IDENTIFICATION OF OPTICAL FIBER LOOSE TUBE

No	1	2	3	4	5	6	7	8	9	10	11	12
Fiber	Blue	Orange	Green	Red	yellow	Violet	Brown	Black	White	Grey	Turquoise	Pink

Ordering Information

No of Fibers	9/125	50/125	62.5/125	50/125 OM3
4	50311048	50321048	50331048	50341048
6	50311068	50321068	50331068	50341068
8	50311088	50321088	50331088	50341088
12	50311128	50321128	50331128	50341128

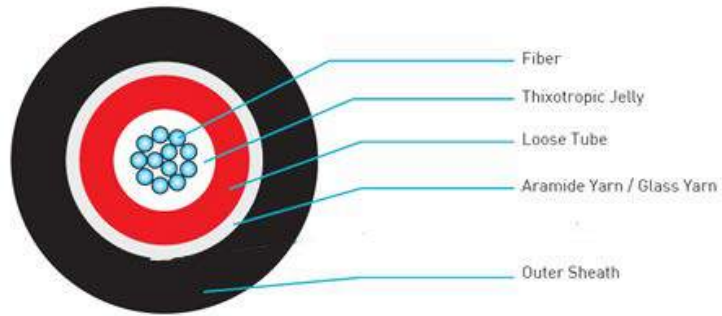
Mechanical and Enviromental Characteristics

Tensile Strength IEC 60794-1-2-E1	Max- 1000n Opr - 600N
Bending Radius(mm) IEC 60794-1-2-E11	Dynamic - 20xD Static - 10xD
Crush Resistance IEC 60794-1-2-E3	500N
Impact Resistance IEC 60794-1-2-E4	50N
Operation Temperature IEC 60794-1-2-F1	Installing -30 +60 (°C) Operating -40 +80 (°C)
Water Penetration IEC 60794-1-2-F5	24 hour, 1 meter No leakage

Central Tube Un armoured Optical Cables



Cable Construction



Product Description :

Designed for indoor/outdoor application to protect optical fiber for the unexpected mechanical and environmental conditions. Qualification and acceptance testing are performed to assure the optical cable's performance and durability in several environments

Features and Benefits

- ◆ Indoor& Outdoor type, fiber counts upto 24
- ◆ Cable Type-SM/OM1/OM2/OM3
- ◆ High tensile Strength design
- ◆ Light Weight
- ◆ Small Diameter
- ◆ Suitable for duct application
- ◆ Dry Core Design
- ◆ Colored fiber for quick identification
- ◆ UV resistance for outer sheath
- ◆ Fully compiled with Telcordia GR-20 and TIA/EIA standards
- ◆ Customer designs are available on request

Applications

- ◆ Building Interconnection
- ◆ Campus
- ◆ Local Area Connection

IDENTIFICATION OF OPTICAL FIBER LOOSE TUBE

No	1	2	3	4	5	6	7	8	9	10	11	12
Fiber	Blue	Orange	Green	Red	yellow	Violet	Brown	Black	White	Grey	Turquoise	Pink

Ordering Information

No of Fibers	9/125	50/125	62.5/125	50/125 OM3
4	505130043	505230043	505330043	505430043
6	505130063	505230063	505330063	505430063
8	505130083	505230083	505330083	505430083
12	505130123	505230123	505330123	505430123

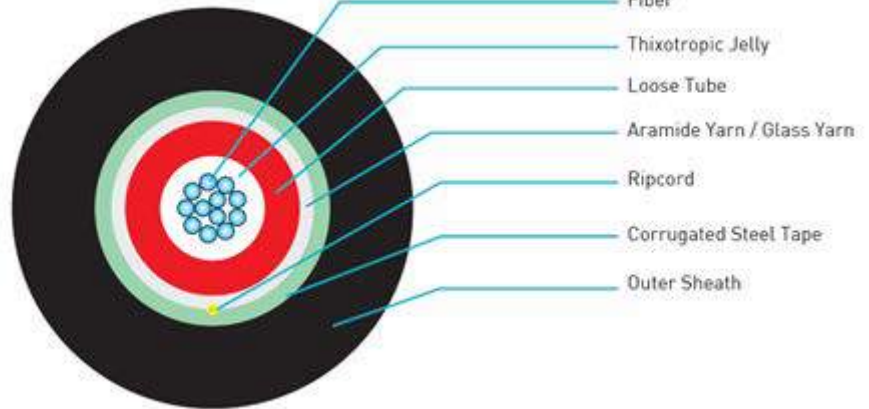
Mechanical and Enviromental Characteristics

Tensile Strength IEC 60794-1 E1	Max - 1.500 N
Bending Radius(mm) IEC 60794-1 E11	Dynamic - 20xD
Storage Temperature IEC 60794-1 F1	-50°C to +80°C
Compression Load IEC 60794-1 -E3	600N
Operation Temperature IEC 60794-1-F1	-40°C to +70°C)
Water Penetration IEC 60794-1- F5	1 meter head for 24 hour No leakage

CENTRAL TUBE ARMoured SINGLE SHEATH



Cable Construction



Product Description :

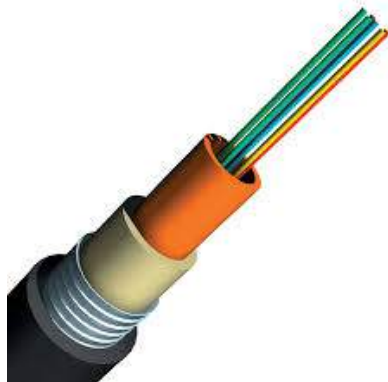
Outdoor type installation - Designed to protect optical fiber for the unexpected mechanical and environmental conditions, qualification and acceptance testing are performed to assure the optical cable's performance and durability in several environments

Features and Benefits

- ◆ Indoor & Outdoor type fiber counts upto 24
- ◆ Light Weight
- ◆ High tensile Strength design
- ◆ Completely dry core design
- ◆ Small diameter
- ◆ Colored fiber for the quick identification
- ◆ UV resistance for outer sheath
- ◆ Customer designs are available on request
- ◆ Fully compiled with Telcordia GR-20 and TIA/EIA standards

Applications

- ◆ Building Interconnection
- ◆ Campus
- ◆ Local Area Connection



IDENTIFICATION OF OPTICAL FIBER LOOSE TUBE

No	1	2	3	4	5	6	7	8	9	10	11	12
Fiber	Blue	Orange	Green	Red	yellow	Violet	Brown	Black	White	Grey	Turquoise	Pink

Ordering Information

No of Fibers	9/125	50/125	62.5/125	50/125 OM3
4	507130043	507230043	507330043	507470043
6	507130063	507230063	507330063	507470063
8	507130083	507230083	507330083	507470083
12	507130123	507230123	5073300123	5074700123

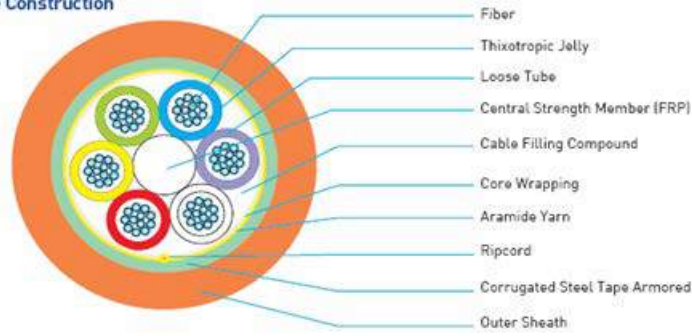
Mechanical and Enviromental Characteristics

Tensile Strength IEC 60794-1-2-E1	Max- 800n Opr - 500N
Bending Radius(mm) IEC 60794-1-2-E11	Dynamic - 20xD Static - 10xD
Crush Resistance IEC 60794-1-2-E3	1100N
Impact Resistance IEC 60794-1-2-E4	50N
Operation Temperature IEC 60794-1-2-F1	Installing -30 +60 (°C) Operating -40 +80 (°C)
Water Penetration IEC 60794-1-2-F5	24 hour, 1 meter No leakage

Direct Buried Type Single Sheathed Optical Cables



Cable Construction



Features and Benefits

- ◆ Indoor fiber counts upto 216
- ◆ Fibers per loose tube 1-12
- ◆ High tensile Strength design
- ◆ Gel filled core cable for the water resistance
- ◆ Suitable for duct application
- ◆ Dry core design is also possible for water resistance in customer request
- ◆ Colored fiber for quick identification
- ◆ UV resistance for outer sheath
- ◆ Fully compiled with Telcordia GR-20 and TIA/EIA standards
- ◆ Ripcord for easy strip outer sheath

Applications

- ◆ Telecommunication applications
- ◆ Video applications
- ◆ Distribution
- ◆ Long Haul Communication
- ◆ Metropolitan Communication Systems

Product Description :

Loose tube designed, Direct buried and/or duct type installation for highly reliable industrial applications. Designed for outside applications, also it's designed to protect optical fiber for the unexpected mechanical and environmental conditions. Qualification and acceptance testing are performed to assure the optical cable's performance and durability in several environments

IDENTIFICATION OF OPTICAL FIBER LOOSE TUBE

No	1	2	3	4	5	6	7	8	9	10	11	12
Fiber	Blue	Orange	Green	Red	yellow	Violet	Brown	Black	White	Grey	Turquoise	Pink
Tubes	Blue	Orange	Green	Red	yellow	Violet	Brown	Black	White	Grey	Turquoise	Pink

Ordering Information

No of Fibers	9/125	50/125	62.5/125	50/125 OM3
4	507170043	507270043	507370043	507470043
6	507170063	507270063	507370063	507470063
8	507170083	507270083	507370083	507470083
12	507170123	507270123	507370123	507470123
24	507170243	507270243	507370243	507470243
36	507170363	507270363	507370363	507470363
48	507170483	507270483	507370483	507470483

Mechanical and Enviromental Characteristics

Tensile Strength IEC 60794-1-2-E1	Max - 3.000 N Opr - 1.000 N
Bending Radius(mm) IEC 60794-1-2-E11	Dynamic - 20xD Static - 10xD
Crush Resistance IEC 60794-1-2-E3	4.000 N
Impact Resistance IEC 60794-1-2-E4	50N
Operation Temperature IEC 60794-1-2-F1	Installing -30 +60 (°C) Operating -40 +80 (°C)
Water Penetration IEC 60794-1-2-F5	24 hour, 1 meter No leakage



Product Description :

Alston Systems, 19" Rack mountable fiber optic patch panel

Features and Benefits

- ◆ 19" Sliding out type easy to operate
- ◆ 4 cable entrances at rear side
- ◆ Available for simplex or duplex SC,LC,ST,FC adapters
- ◆ Maximum capacity, 144 Fibers

Package Contains

- ◆ 19" Sliding patch panel main body with splice tray

Ordering Information

Part No	Adapter Type
5203010123	12 Port SC Simplex, FO PP, with Main body/Splice Tray/Gland/CM Kit
5203010243	24 Port SC Simplex, FO PP, with Main body/Splice Tray/Gland/CM Kit
5203010483	48 Port SC Simplex, FO PP, with Main body/Splice Tray/Gland / CM Kit
5203010963	96 Port SC Simplex, FO PP, with Main body / Splice Tray / Gland /CM Kit
5203020123	12 Port SC Duplex, FO PP, with Main body / Splice Tray / Gland / CM Kit
5203020243	24 Port SC Duplex, FO PP, with Main body / Splice Tray / Gland /CM Kit
5203020483	48 Port SC Duplex, FO PP, with Main body / Splice Tray / Gland / CM Kit
5201010123	12 Port ST Simplex, FO PP, with Main body / Splice Tray / Gland / CM Kit
5201010243	24 Port ST Simplex, FO PP, with Main body / Splice Tray / Gland / CM Kit
5201010483	48 Port ST Simplex, FO PP, with Main body / Splice Tray / Gland / CM Kit
5201010963	96 Port ST Simplex, FO PP, with Main body / Splice Tray / Gland / CM Kit





Product Description :

Alston Systems, Fiber Optic patch cords are used to connect high speed and legacy networks like Gigabit Ethernet, Fast Ethernet and Ethernet. All patch cords are 100% factory tested to ensure performance to TIA/EIA-568-B-2, ISO 11801:2002 and EN 50173-1 standards.

With complete connector range of SC, ST, LC, FC, MTRJ, and also the different mode of fiber cables, consists of various combination for all-field applications

Features and Benefits

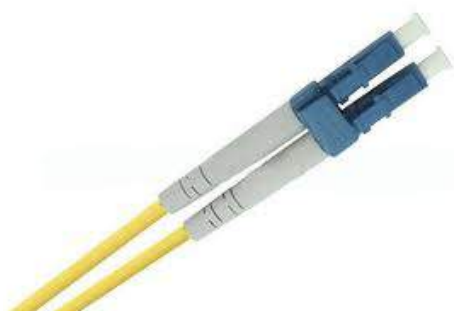
- ◆ SC,LC,ST,FC and MTRJ connectors
- ◆ Low smoke zero halogen (LSZH) cable in aqua or purple color
- ◆ 900µm tight buffer
- ◆ OM2 fibre conforms to ITU-651, TIA/EIA 492AAAC
- ◆ Simplex and duplex assemblies
- ◆ Duplex assemblies available with clips (SC and LC)
- ◆ Different connector performance range for specific application
- ◆ Armoured option also available

Applications

- ◆ For use in 10 Gb/s high speed LAN networks over a 300 m indicative link length at 850 nm (SX) wavelength using a laser launch
- ◆ For use in 1 Gb/s high speed LAN networks over a 1000 m indicative
- ◆ High speed and legacy networks including Gigabit Ethernet, Fast Ethernet
- ◆ Data centers Premises cabling in data networks including backbone, riser and horizontal

Ordering Information

Patch Chord	9/125	50/125	62.5/125	50/125 OM3
PVC 1 MTR	510112101X	510132101X	510122101X	510142101X
SC-MTRJ	511112101X	511132101X	511122101X	
ST/PC-MTRJ	511212101X	511232101X	511222101X	
LC-MTRJ	511312101X	511332101X	511322101X	
FC-MTRJ	511412101X	511432101X	511422101X	
MTRJ-MTRJ	511512101X	511532101X	511522101X	





Product Description :

Terminated with metal stopper and screws
 Polymeric caps protect the adapters against dust and allow easy identification: single-mode adapters come with white (FC) and blue (SC) caps; multi-mode adapters come with black (FC) and beige (SC) caps FC, SC, ST adapters are inline (i.e. fiber optic connectors are installed at both ends) and they are used for the precise centering of connectors' ferrules in special sleeves

Technical Specifications

- ◆ Insertion loss: 0.3 dB
- ◆ Storage Temperature : -40°C to +80°C (-40°F to +176°F)
- ◆ Operating Temperature : -20°C to +70°C (-4°F to +158°F)
- ◆ Maximum Permissible humidity : 95%

Materials

- ◆ Nickelized brass, plastic
- ◆ Phosphor bronze centering sleeve

Ordering Information

Adapter Type	SC-SC	SC-FC	ST-ST	ST-SC
Part No	5303211009	5309211009	5301211009	5302211009
	5303111001	5309111001	5301111001	5302111001

Adapter Type	FC-FC	LC-LC	DLC-DLC	MTRJ
Part No	5307211009	5304211009	5304221009	5315221009
	5307111001	5304111001	5304121001	



SC Type Fiber Optical Adapter



LC Type Fiber Optical Adapter



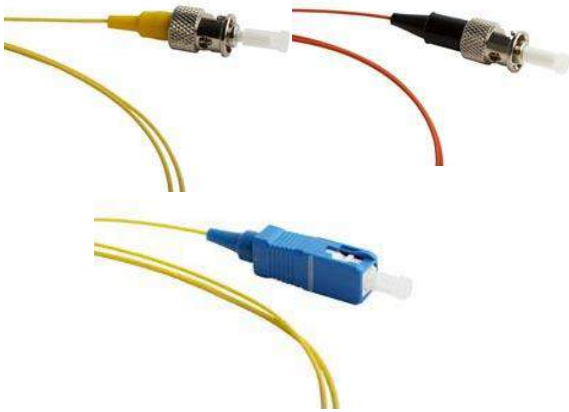
FC Type Fiber Optical Adapter



MTRJ Type Fiber Optical Adapter



ST Type Fiber Optical Adapter



Ordering Information

Part No	Adapter Type
540111201A1	Alston Systems, SM Pigtail, 9/125 , ST/APC , 1m
540311201A1	Alston Systems, SM Pigtail, 9/125 , SC/APC , 1m
540711201A1	Alston Systems, SM Pigtail, 9/125 , FT/APC , 1m
540411201A1	Alston Systems, SM Pigtail, 9/125 , LC/APC , 1m
540131201A9	Alston Systems, MM Pigtail, 50/125 , ST/APC , 1m
540121201A9	Alston Systems, MM Pigtail, 62.5/125 , ST/APC , 1m
540331201A9	Alston Systems, MM Pigtail, 50/125 , SC/APC , 1m
540321201A9	Alston Systems, MM Pigtail, 62.5/125 , SC/APC , 1m
540731201A9	Alston Systems, MM Pigtail, 50/125 , FC/APC , 1m
540721201A9	Alston Systems, MM Pigtail, 62.5/125 , FC/APC , 1m
540341201A9	Alston Systems, MM Pigtail, 50/125 , SC/APC , 10G
540441201A9	Alston Systems, MM Pigtail, 50/125 , LC/APC , 10Glg

Product Description :

Alston Systems, pigtails integrated design with good performance will be your better choice, completely connector range including FC, ST, SC, LC & MTRJ.

Note : SM - Single Mode ; MM - Multi Mode

Cord	Type	Single Mode			Multi Mode			
		ST 9/125	SC 9/125	FC 9/125	ST 50/125, 62.5/125	SC 50/125, 62.5/125	FC 50/125, 62.5/125	SC & LC 50/125
Ferrule Outer Diamter		2.5mm						
Connector	Boot Color	PC : blue	APC : Green	Black	Beige	Black	Grey	
	Ferrule	Zirconia						
	Spring	Stainless Steel					SP3	
	C-ring	SK5M						
	Ring	Brass						
	Crimping ring	Aluminium						
	Boot	Elastomer	Keyflex	Santropen	Elastomer	Keyflex	Santropen	Keyflex
	Dust Cap	LD PE			PE	LD PE	LD PE	LD PE
	Coupling Device	Brass	PBT	Brass	Brass	Brass	Brass	PBT
	Frame	Brass	PBT	PBT	Brass	PBT	PBT	PBT
	Washer	Brass						
	Cable	9/125 ; LSZH Jacket			LSZH Jacket	LSZH Aramind & Jacket		
	Length	1 m						
Technical Characteristics	Insertion Loss	<0.3dB			<0.4dB			
	Return Loss	> 45 dB			> 45 dB			
	Endface Radius	10 mm < R < 25 mm			10 mm < R < 25 mm			
	Apex Offset	< 50 um			< 50 mm			
Operating Temperature	-40°C to +85°C (- 40°F to 185°F)							

FIBER OPTIC DOME TYPE SPLICED ENCLOSURE



Features and Benefits

- ◆ Reliable mechanical sealing to prevent liquid or steam penetration
- ◆ Easy to open and reopen
- ◆ Available 2 IN and 2 OUT and 3 IN and 3 OUT
- ◆ Splice tray capacity : 24 cores
- ◆ 2 IN and 2 OUT type upto 72 cores, 3 IN and 3 OUT type upto 144 cores
- ◆ Made by high strength engineering material to against impact or hit

Product Description :

Alston Systems, fiber optic dome type splice enclosure is hermetically sealed design , easy for assembly and re-entry. The closure is designed with a gasketed split end plate for mid access cable application and includes an integrated stack storage basket. Max 6 * 24 core splice trays support upto 144 cores splice inside and no need special tools for tray fixing or unloading . This type enclosure is available for aerial or wall mount applications.

Ordering Information

Part No	Description
5600000483	FO Splice closure w/6 cable ports (3 IN , 3 OUT), 48 cores, black
5600000723	FO Splice closure w/6 cable ports (3 IN , 3 OUT), 72 cores, black
5600000923	FO Splice closure w/6 cable ports (3 IN , 3 OUT), 92 cores, black
56000001443	FO Splice closure w/6 cable ports (3 IN , 3 OUT), 144 cores, black
56000001923	FO Splice closure w/6 cable ports (3 IN , 3 OUT), 192 cores, black

FIBER OPTIC SOLUTIONS

FIBER TERMINAL BOX



Product Description :

Alston Systems, fiber terminal box is used for direct termination of fibers. The rear section accomodates cable entry and protects against taking out the cables. Box includes two separate sections for fusion splice trays and for routing optical connecting modulesto the equipment.

Ordering Information

Part No	Description
5503010123	12 Port SC type , Simplex without adapter
5503020123	12 Port SC type , Duplex without adapter
5503010243	24 Port SC type , Simplex without adapter
5503020233	24 Port SC type , Duplex without adapter
5503010483	48 Port SC type , Simplex without adapter
5503020483	48 Port SC type , Duplex without adapter