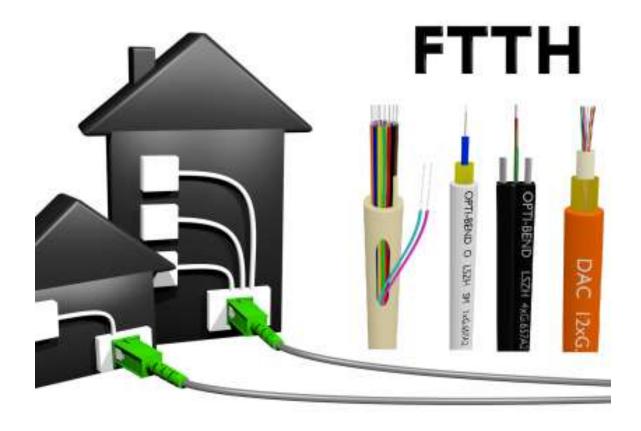
FORTE

Well connected



Products Fiber Optic catalogue 2022/2023













Contents	Page Number	
Who we are?	3	
Why Forte?	4	
Fiber Optic Cables	5	
Closures - Dome / inline / Mechanical	24	
FTB – Fiber Termination Boxes	30	
Splitters	35	
Fiber Drop Box	41	
Connectivity (adapters + pigtails)	43	
Patch cords	48	
Street Cabinets	52	
ODF	55	
Instruments	59	
Accessories	66	
FO Cleaner	67	
FO Basic Tester	68	
FO Advanced Tester	69	
FO polish & cleaner	70	
Tools	71	
Copper tools and testers	72	
Quality assurance	73	





WE ARE THE **FORTE**

Founded in 2009, **FORTE**is a global high-tech product providing high-speed communication network solutions and services to several industries. **FORTE** Offers a variety of standard telecommunication products and is also able to customize products based on individual needs. We drive our industry by supplying efficiency, high quality, continuous innovation, and ease of access to all our customers.

Our customers are telecommunication ISP's, government entities, education centers, finance establishments, medical institutions, transportation hubs, and technology clusters. Customers are able to access all services online through their personal computer or mobile device.

Guaranteed Quality

FORTE Partners with many top-tiers manufacture who emphasize cutting edge production techniques, technology innovations, and management ability. After production, items are inspected in our state-of-the-art testing facility. Every item is tested by a skilled technician for compatibility and stability before being placed in an order. **FORTE** Products are backed by international certifications such as ISO, ROHS, CE, FCC, and more.



Intelligent Digital Platform

FORTE Provides a vast inventory and multiple options to customize products. Each product is listed with in-depth specifications, installation guides, software, configuration protocols, behavior analysis, and frequently asked questions. Additionally, after placing an order, customers have access to order status, customization details, account preferences, and live support.



Worry-Free Service

Ensures products will be available quickly with several methods of delivery. **FORTE**Warehouses support next day shipping and the use of a personal shipping account. Provides a personal account manager, free professional technical support, and 24/7 live customer service to each customer.















Find out how we assure our product quality

With strict supplier evaluation and selection, and our constant investing into the improvement and upgrading of our facilities and equipment, **FORTE** always assures top-notch products that qualified by a great range of industry credentials.

Strict Supplier Management

We strictly identify, select and qualify suppliers of all materials used in the product manufacture process, and we are partnered with those famous companies of the industry, to ensure product performance for you to stay competitive in business.

Professional Testing Facilities and Process

All the products are tested based on real application scenarios in our testing center that equipped with state-of-the-art facilities. We will continue to invest in product R&D, equipment and our team to ensure we are providing the best products.

Accreditation Programs

Our products are accredited with industry certifications such as ISO 9001:2015, RoHS, CE, FCC, REACH, CB, FDA and other international QM certificates for quality management.

We are here to provide you worry-free services

The combination of fast delivery, professional technical support and one-on-one quick response showcases the **FORTE** commitment to excellent services.





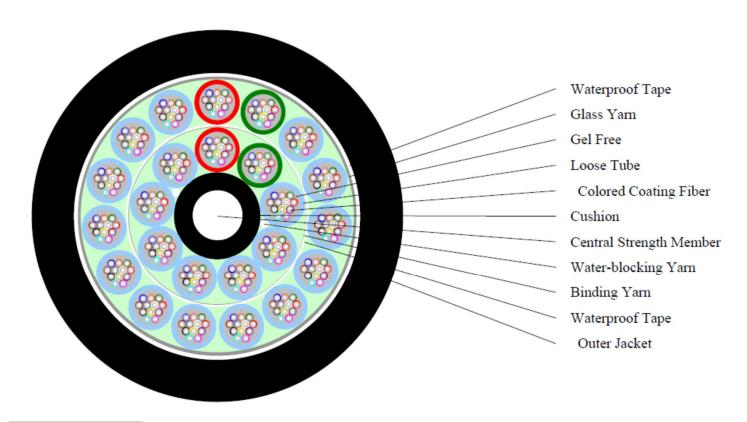
Fiber Optic Cables







Duct Cables 12/24/48/96/144/288 -cores



NT-	Items		***	Specification
No.			Unit	G.652D
1	26 1 5:115:	1310nm	μm	9.2±0.4
1	Mode Field Diameter	1550nm	μm	10.4±0.5
2	Cladding Diam	eter	μm	124.8±0.7
3	Cladding Non-Circularity		%	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0
8	Cable Cutoff Wavelength		nm	λ _{cc} ≤1260
0	A # (1310nm	dB/km	≤0.36
9	Attenuation(max.) 1550nm		dB/km	≤0.25











<u> </u>	 		
	Dimension	250μm±15μm	
Colored Coating Fiber		Blue, Orange, Green, Brown,	
Colored Coaling 1 loci	Color	Grey, Natural, Red, Black,	
		Yellow, Purple, Pink, Aqua	
	Dimension	1.95mm±0.05mm	
	Material	PBT	
		Inner(Red、Green、Natural、Natural、	
Loose Tube		Natural, Natural, Natural, Natural)	
	Color	Outer (Red., Green., Natural., Natural., Natural., Natural.	
		Natural、Natural、Natural、Natural、Natural、	
		Natural、Natural、Natural、Natural)	
Central Strength Member	Diameter	2.0mm	
Central Strength Member	Material	FRP	
	Dimension	3.8mm±0.1mm	
Cushion	Material	LSZH	
	Color	Black	
	Dimension	16.5mm±0.5mm	
Outer Jacket	Material	LSZH	
	Color	Black	
	-		

Items	Unite	Specifications
Tension (Long Term)	N	600
Tension (Short Term)	N	1500
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature		-20~+60
Operating Temperature		- 40~+70
Storage Temperature		- 40~+70

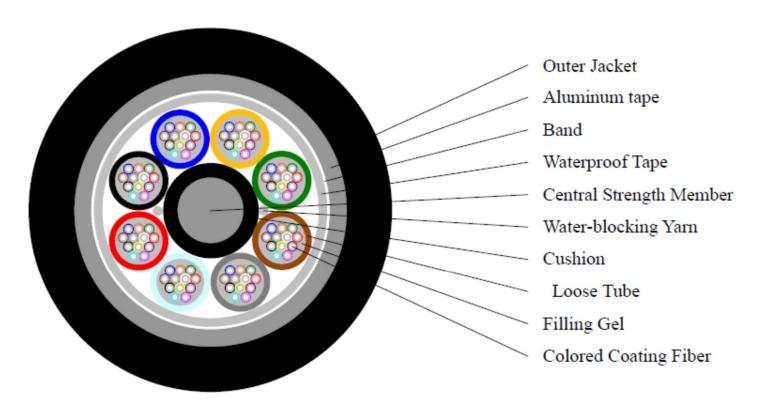








Duct Cables -Armored- 12/24/48/96/144/288 -cores



NT-	Items		***	Specification
No.			Unit	G.652D
,		1310nm	μm	9.2±0.4
1	Mode Field Diameter	1550nm	μm	10.4±0.5
2	Cladding Diam	eter	μm	124.8±0.7
3	Cladding Non-Circularity		%	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0
8	Cable Cutoff Wavelength		nm	λ _{cc} ≤1260
0	A + +	1310nm	dB/km	≤0.36
9	Attenuation(max.) 1550nm		dB/km	≤0.22











Cable Parameters

Items		Specifications	
Fiber Count		96 or 48	
	Dimension	250μm±15μm	
Colored Coating Fiber		Blue, Orange, Green, Brown,	
Colored Coating Floer	Color	Grey、本 Natural、Red、Black、	
		Yellow、Purple、Pink、Aqua	
Dimension		2.15mm±0.1mm	
Loose Tube	Material	PBT	
	Color	Blue, Orange, Green, Brown,	
		Grey、Natural、Red、Black、	

Central Strength Member	Diameter	3.6mm
Central Strength Member	Material	FRP
	Dimension	13.3mm±0.3mm
Outer Jacket	Material	HDPE
	Color	Black

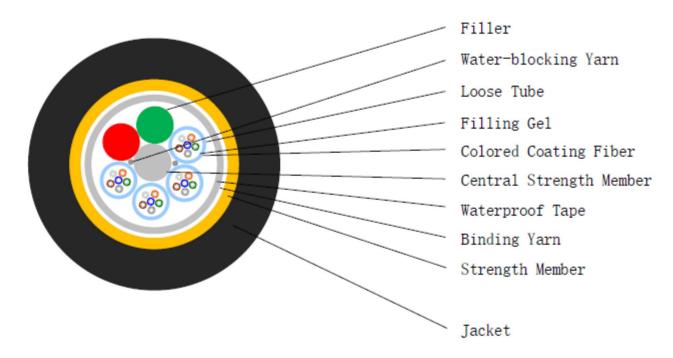
Items	Unite	Specifications
Tension (Long Term)	N	1500
Tension (Short Term)	N	3000
Crush (Long Term)	N/10cm	1000
Crush (Short Term)	N/10cm	2000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	-20~+60
Operating Temperature	°C	−40~+70
Storage Temperature	°C	-40∼+70





Aerial Cables (ADSS) - 12/24/48/96/144/288 -cores & its accessories

ADSS Aerial dry core loose tube Self supporting aerial or duct installation.



N	ltems		11-24	Specification
No.			Unit	G.652D
1	Made Field Discoster	1310nm	μm	9.2±0.4
1	Mode Field Diameter	1550nm	μm	10.4±0.5
2	Cladding Dia	meter	μm	124.8±0.7
3	Cladding Non-Circularity		%	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0
8	Cable Cutoff Wavelength		nm	λ _{cc} ≤1260
9	Attonuction/may)	1310nm	dB/km	≤0.36
9	Attenuation(max.) 1550nm		dB/km	≤0.25





Cable Parameters

ltems		Specifications	
Fibe	r Count	12/24/48	
Dimension		250μm±15μm	
		24*:蓝 Blue、橙 Orange、绿 Green、棕 Brown、	
Colored Coating Fiber	Color	灰 Grey、白 White	
		48*:蓝 Blue、橙 Orange、绿 Green、棕 Brown、	
		灰 Grey、白 White 、红 Red、黑 Black	
	Dimension	2.0mm±0.05mm	
	Material	PBT	
Loose Tube	Color	24*:本 Natural、本 Natural、本 Natural、本 Natural	
		48*:红 Red、绿 Green、本 Natural、本 Natural、	
		本 Natural、本 Natural	

	Dimension	2.0mm±0.05mm
Filler	Material	PP
	Color	24*:红 Red、绿 Green
Central Strength Member	Diameter	2.0mm
Central Strength Member	Material	FRP
Strength Member	Material	Aramid Yarn
	Dimension	10.0mm±0.4mm
Outer Jacket	Material	PE
	Color	Black



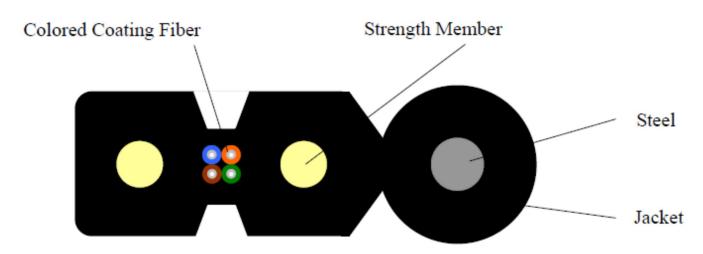


Items	Unite	Specifications
RTS	N	6000
MAT	N	2400
EDS	N	1500
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	25D
Min. Bend Radius(Static)	mm	12.5D
Installation Temperature	°C	-20~+60
Operating Temperature	°C	-40~+70
Storage Temperature	°C	-40~+70





ADSS -self supporting covered drop cable



NT-	Items		TT-'4	Specification	
No.			Unit	G.657A1	
1	Mode Field Diameter		1310nm		8.6±0.4
1	Wode Field Diameter		1550nm	μm	9.8±0.5
2	Cladding Diameter			μm	125.0±0.7
3	Cladding Non-Circularity			%	≤0.7
4	Core-Cladding Concentricit	Core-Cladding Concentricity Error			≤0.5
5	Coating Diameter			μm	242±5
6	Coating Non-Circularity			%	≤6.0
7	Cladding-Coating Concentr	icity Error		μm	<12.0
8	Cable Cutoff Wavelength			nm	λ _{cc} ≤1260
9	Attanuation(mar.)		1310nm	dB/km	≤0.35
9	9 Attenuation(max.)		1550nm	(IB/KIII	≤0.20
10	Macro-Bending Loss		10mm radius @1550nm	dB	≤0.5
10			rn×10mm radius @1625nm		≤1.5





Cable Parameters

	Items	Specifications	
Fibe	r Count	4	
Calanal Castina Filan	Dimension	250±15μm	
Colored Coating Fiber	Color	Blue,Orange,Green & Brown	
Characte Manufact	Dimension	0.45mm	
Strength Member	Material	steel	
Calf Commenting Manufacture	Dimension	1.2mm	
Self-Supporting Member	Material	Steel	
	Dimension	5.2±0.2mm×2.1±0.1mm	
Jacket	Material	LSZH	
	Color	Black	

Items	Unite	Specifications
Tension (Long Term)	N	300
Tension (Short Term)	N	600
Crush (Long Term)	N/10cm	1000
Crush (Short Term)	N/10cm	2200
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	- 20∼+60
Operating Temperature	°C	- 40∼+70
Storage Temperature	°C	- 40∼+70

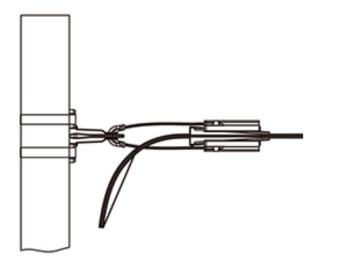






ADSS Accessories

Anchor brackets



Dead-end clamp



Product information:

The universal bracket YK-01 is made from galvanized steel by cold stamping production method. Also called FTTH hook (pole bracket for FTTH). Can be attached on wooden, metal, concrete poles or buildings by stainless steel strap or bolts. Galvanized materials guarantee long time of usage. Fixed by stainless steel band (20-10 mm) or 4 bolts up to 4 mm diameter.

Optical fiber fixation hook apply with tension installing on dead end route. Fiber optic bracket YK-01 allows withstand with small load with anchor clamp. Usually applied for anchoring FTTH cable, drop wire of different diameters and spans.

Product information:

Drop wire clamps, also called flat cable clamps, can be used with telephone drop wire cable, and optical fiber cable in FTTH, FTTX, FTTB solutions. Drop tension clamp is equipped with

perforated shim, which increase the tension load on drop wire.

The stainless steel wire bail allows installations of ODWAC drop wire clamps on the buildings, poles, strand with drive hooks, pole brackets, SS hooks and other drop wire fittings and hardware. That can be supplied either separately or together as assembly with FTTH-CLAMP.

Drop wire anchoring clamps and drop wire mounting fittings are available in R&M product range. Optical fiber drop wire clamps are easily to be pick up according to mechanical resistance and diameter of cables' wire of messenger.











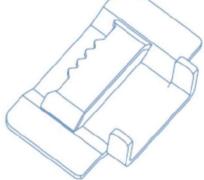
Tension clamp



Stainless-steel straps



Stainless-steel buckle





The ADSS tension clamp consists of self-adjusting plastic wedges, which clamp the optical cable without damaging. Wide range of gripping capacities archived by different types of wedges ADSS anchor clamp. The stainless steel bail allows installations of clamps on a pole brackets or hooks at seaside areas. ADSS tension available either separately or together as assembly with ADSS FO cable brackets and stainless steel band. Materials: stainless steel bail, fiberglass reinforced, UV resistant Plastic. Analogs: ACADSS8, ACADSS10, ACADSS12, ACADSS14, ACADSS16, ACADSS18, PA 69 200

Product information:

The stainless steel banding can guarantee extended service life; and attaching under significant mechanical loads. Minimal breaking load is also different depends on the grade of steel. Stainless steel straps are available in different sizes to assist your strapping needs of securing with heavy loads.

Product information:

Stainless Steel buckles, other called stainless steel clips, used to attach pole fittings, anchor clamps, suspension fittings and other fittings or accessories together with stainless steel band. The areas of usage of reinforced buckles are passive optical networks, marine and railway transportation, enclosure mounting, pole fastening, mining, oil and gas industries, pole hardware, road sings, traffic signals, underground cables, emergency labels, power line poles, telecommunications, brake line LV ABC cable fittings, fiber optic cable accessories, fiber optic splice closures, dead-end guy grips etc. can be installed











PCS bracket



Suspension clamp



by buckle HC-20-T with stainless steel bandings

Stainless steel buckle LC has max size for band – 20 mm and appropriate for insertion of three coils of band strapping

Product information:

The universal bracket UPB is made from aluminum by the die casting technology. The installation can be proceed on the poles of walls, wooden, metal concrete material made, by using stainless steel band or bolts. Stainless steel materials guarantee long time of usage. Fixed to the pole by 2 stainless steel band (20 mm) or 1 bolts 14, 16 mm diameter. The bracket apply with tension and suspension clamps installing on different routes and angles. Provide the principal of all in one device, by offering up to 5 clamping points.

Fiber optic bracket UPB's design allows withstand a sufficient load without anchor clamp slip or break.

Product information:

Suspension clamps HC designed to suspend ADSS round optical fiber cable during construction of transmission line. The clamp consists of plastic insert, which clamp the optical cable without damaging. A wide range of gripping capacities and mechanical resistance archived by wide product range, with different sizes of neoprene inserts. The metal hook of HC suspension clamp allows installation on the pole by using stainless steel band and pigtail hook or brackets. The hook of ADSS clamp can be produced form stainless steel materials according to you request.



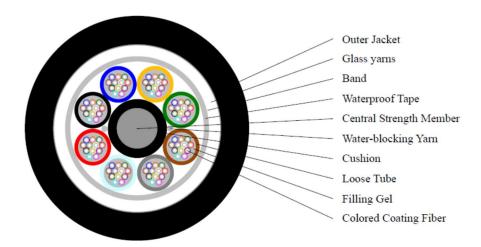








Blown Fiber Cables



NI	Items		TT:4	Specification
No.			Unit	G.652D
1	V. 1 F. 115.	1310nm	μm	9.2±0.4
1	Mode Field Diameter	1550nm	μm	10.4±0.5
2	Cladding Diam	eter	μm	124.8±0.7
3	Cladding Non-Circ	cularity	%	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0
8	Cable Cutoff Wavelength		nm	$\lambda_{ee} \leq 1260$
0		1310nm	dB/km	≤0.36
9	Attenuation(max.) 1550nm		dB/km	≤0.22





Cable Parameters

I	tems	Specifications	
Fibe	r Count	96	
	Dimension	250μm±15μm	
Colored Coating Fiber		Blue, Orange, Green, Brown,	
Colored Coating Ploer	Color	Grey、Natural、Red、Black、	
		Yellow, Purple, Pink, Aqua	
	Dimension	2.15mm±0.1mm	
Loose Tube	Material	PBT	
Loose Tube	Color	Blue, Orange, Green, Brown,	
	Color	Grey、Natural、Red、Black、	

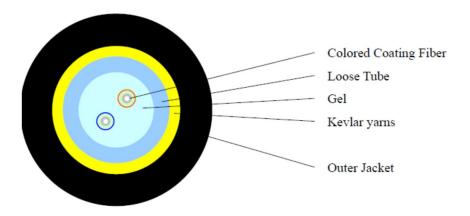
Control Strongth Mambar	Diameter	3.6mm	
Central Strength Member	Material	2.5mmFRP+PE	
	Dimension	12.8mm±0.3mm	
Outer Jacket	Material	HDPE	
	Color	Black	

Items	Unite	Specifications
Tension (Long Term)	N	1500
Tension (Short Term)	N	3000
Crush (Long Term)	N/10cm	1000
Crush (Short Term)	N/10cm	2000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
安装温度 Installation Temperature	°C	−20~+60
工作温度 Operating Temperature	°C	−40~+70
储存温度 Storage Temperature	°C	−40~+70





Blown Fiber Cables - 2/4 cores



Tibel I a	Specification				
No.		Items		Unit	Specification
					G.657A2
1	Mode Field Diameter		1310nm	μm	8.8±0.4
1	Wode Field Diameter		1550nm	μm	9.8±0.5
2	Clad	lding Dia	ameter	μm	124.8±0.7
3	Claddin	ng Non-C	Circularity	%	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5	
5	Coating Diameter		μm	245±5	
6	Coating Non-Circularity		%	≤6.0	
7	Cladding-Coating Concentricity Error		μm	≤12.0	
8	Cable C	Cutoff W	avelength	nm	λ _{cc} ≤1260
9	Attanuation(mar.)	1310nm		dB/km	≤0.4
9	Attenuation(max.) 1550nm		dB/km	≤0.3	
10	1tur		n×7.5mm radius @1550nm	dB	≤0.5
10	Macro-Bending Loss	1tur	n×7.5mm radius @1625nm	dB	≤1.0





Cable Parameters

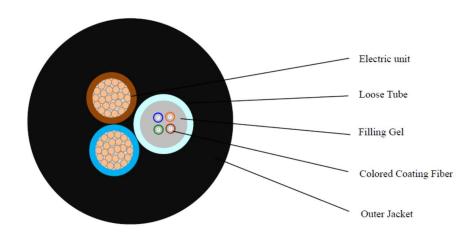
1	Items	Specifications	
Fib	er Count	2	
Colomal Coating Filter	Dimension	250μm±15μm	
Colored Coating Fiber	Color	Blue, Orange	
	Dimension	1.8mm±0.05mm	
Loose Tube	Material	PBT	
	Color	Natural	
	Dimension	$2.3\text{mm}\pm0.2\text{mm}$	
Outer Jacket	Material	HDPE	
	Color	Black	

Items	Unite	Specifications
Tension (Long Term)	N	100
Tension (Short Term)	N	200
Crush (Long Term)	N/10cm	100
Crush (Short Term)	N/10cm	200
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	−20~+60
Operating Temperature	°C	−40~+70
Storage Temperature	°C	−40~+70





Hybrid Cables 2 /4 cores SM fiber+1pair electrical (hybrid) cables



No.	ltems		Unit	Specification
NO.	items	items		G.652D
1	Mode Field Diameter	1310nm	μm	9.2±0.4
1	Mode Field Diameter	1550nm	μm	10.4±0.5
2	Cladding Diame	ter	μm	124.8±0.7
3	Cladding Non-Circu	ılarity	%	≤0.7
4	Core-Cladding Concentricity Error		μm	≤0.5
5	Coating Diameter		μm	245±5
6	Coating Non-Circularity		%	≤6.0
7	Cladding-Coating Concentricity Error		μm	≤12.0
8	Cable Cutoff Wavelength		nm	λ _{cc} ≤1260
9		1310nm	dB/km	≤0.36
9	Attenuation(max.)	1550nm	dB/km	≤0.22





Cable Parameters

I	tems	Specifications	
Fibe	r Count	4	
Colored Coating Fiber	Dimension	250μm±15μm	
Colored Coating Fiber	Color	蓝 Blue、橙 Orange、绿 Green、棕 Brown	
Loose Tube	Dimension	1.8mm±0.1mm	
Loose Tube	Thickness	0.3±0.05mm	
Electrical unit	Model	2*BV1.5mm ²	
	Dimension	6.5mm±0.3mm	
Outer Jacket	Thickness	1.4mm±0.2mm	
Otter Jacket	Material	PE	
	Color	Black	

Items	Unite	Specifications
Tension (Long Term)	N	500
Tension (Short Term)	N	1000
Crush (Long Term)	N/10cm	300
Crush (Short Term)	N/10cm	1000
Min. Bend Radius (Dynamic)	mm	20D
Min. Bend Radius (Static)	mm	10D
Installation Temperature	°C	−10~+50
Operating Temperature	℃	-20~+60
Storage Temperature	°C	−20~+60





Closures







Dome Closures – up to 288 splices – Mechanical.







Specification:

- Designed based on I the FTTh applications
- Dome material can resist corrosion and aging and also provide ultra-violet protection.
- Support single & ribbon fiber optic cables.
- Base-to-dome seals on enclosure are heatshrinkable for ease of installation;
- Compatible with most cable construction: loose tube, central core, slotted core, modular;
- High stable and reliability performance.
- Be used for underground, manhole, hand hole, pole mount, wall mount and aerial applications.

Parameter:

- Closure Dimensions : 470mm*Φ235mm
- Closure body materials: Molded plastic (high strength plastic alloy)
- Cable ports : 1 in 4 out.
- Main cable diameter: D9~16mm, Distribution cable diameter: D5~11mm
- Closure Capacity: 96 cores for single fiber
- Tray capacity: 24 cores for single fusion
- Number of trays: 4 trays and 6 trays
- Fiber bending radius: ≥ 37.5 mm, Supporting single and ribbon fiber
- Standards compliance: ITU-T L13 2003, YD/T 814, I-2004, RoHS 2002/95/EC and
- 2011/65/EU
- Protection degree: IP68

Features

- May be used for cut, uncut and taut sheath applications.
 - May be used for all fiber optic cable.
- Sheath retention & central strength member fasten system included.
- Closure construction and lightweight plastic provides strength and resistance to chemical and U.V attack
- Installation and reentry with a minimum of tools
- All hardware are included







Dome Closure accessories

Mechanical Sealing Kits for Oval Port



22 111

Oval port closing kits M2-22mm

- Up to 2 cables
- Maximum diameter of cables Ø
 22 mm





Drop Cable Sealing Kits for Round Port



- Round port closing kit M4-9mm
- Round Port Ø 30 mm
- Up to 4 drop cables
- Maximum diameter of cables Ø 9 mm





Round port closing kit M8-6mm

- Round Port Ø 30 mm
- Up to 8 drop cables
- Maximum diameter of cables Ø
 6 mm



Cable Sealing Kits for Round Port



- Round port closing kit M9-6mm
- Round Port Ø 30 mm
- One cable entry
- Maximum diameter of cables Ø 6 mm / 8 mm / 9 mm











In Line Closures -Horizontal type



Specification:

- Good designed I for fiber joint;
- The main body is made of superior engineering plasticpolycarbonate materials;
- External structural components and fastening components are made of stainless steel
- with good anti-erosion and anti-aging performance;
- The entry and exit points of optical cables are equipped with airtight seals to ensure
- airtight performance;
- Suitable for laying direct and breakout splice of overhead, pipe bulletin, and underground
- pipe also protect the connector;
- With multiplexing and expansion function;

Parameter:

- Closure Dimensions: 430mm*190*140mm
- Closure body materials: Molded plastic (high strength plastic alloy)
- Cable ports : 2 in 2 out.
- Main cable diameter: D7~18mm; Distribution cable diameter: D5~11mm
- Closure Capacity: 96 cores for single fiber
- Tray capacity: 24 cores for single fusion
- Number of trays: 4trays
- Fiber bending radius: ≥ 37.5 mm, Supporting single and ribbon fiber
- Standards compliance: ITU-T L13 2003, YD/T 814, I-2004, RoHS 2002/95/EC and 2011/65/EU;
- Protection degree: IP68

Un-cut Horizontal closure







Specification:

- Designed based on the I FTTh applications;
- Fiber cable connection, distribution and drop cable applications;
- Support single & ribbon fiber optic cables;
- 2 main cables entry ports (un-cut lose tube cables are supported);
- 12 cable distribution out ports;
- High stable/scaling performance;
- Be used for underground, manhole, hand hole, pole mount, wall mount and
- aerial applications;

Parameter:

- Closure Dimensions: 434x196x119mm
- Closure body materials: Molded plastic (high strength plastic alloy)
- Cable ports: 14 ports (2 main cable port and 12 distribution cable port) at one end_ Additional 8 distribution cable ports on the other end.
- Main cable diameter: D9~16mm; Distribution cable diameter: D5~11mm
- Closure Capacity: 96-cores for single fiber
- Tray capacity: 24-cores for single fusion
- Number of trays: 4 trays
- Fiber bending radius: ≥ 37.5 mm, Supporting single and ribbon fiber
- Standards compliance: ITU-T L13 2003, YD/T 814, I-2004, RoHS 2002/95/EC and 2011/65/EU
- Protection degree: IP68

Fiber Access Terminal Closure (FATC)







Designed to seal without screws. The compact size and flip-over cover bring easy operation as well as complete function. The splice trays are jointed with a hinge at one side, which makes the operation in each tray easier. It is designed to prevent from operation damage.

Specification

Dimension (mm)	395×245×130
Max. capacity(Single fiber)	288
Weight (kg)	5
Sealing type	Mechanical
Cable ports	1 input cable port for un-cut cable from diameter from10~17.5mm. 6 output cable ports for cable diameter from 8~17.5mm.
Single splice tray capacity (Single fiber)	24
Splice tray quantity	1~12
Environmental temperature	-40°C∼+65°C
Optical performance	No significant additional attenuation
IP .	IP68
This equipment	is moisture-proof and earthquake-proof















FTB - Fiber Termination Boxes







FTB- 16-96 cores









Fiber Access Terminal

Description

- Fiber access termination box is able to hold up to 16 subscribers.
- It is used as a termination point for the feeder cable to connect with drop cable in FTTx network system. It integrates fiber splicing, splitting, distribution, storage and cable connection in one solid protection box.

Features

- Water-proof design with IP-66 Protection level. Integrated with splice cassette and cable management rods.
- Manage fibers in a reasonable fiber radius condition.
- Easy to maintain and extend the capacity.
- Fiber bend radius control more than 40mm.
- Suitable for the fusion splice or mechanical splice.
- 1*16 Splitter can be installed as an option.
- Efficient cable management.
- 16 ports cable entrance for drop cable.

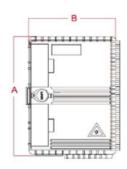
Standard Accessories

 Splice cassette and cable management tool, installation nuts and bolts, protection sleeves, hose clamp, rubber steal for cable entrance.

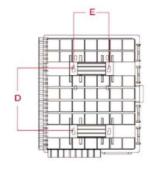
Optional Accessories

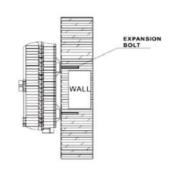
Pole ring, Extra lock and key

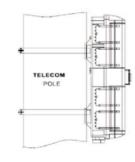
Material	Size	Max Capa	city	Installation size	Weight	Color
PC +ABS	A*B*C(mm) 292*218*83	SC 16 Ports	PLC 1x16(SC)	D*E (mm) 154*82	1.4kg	White/Black











Pic 1 Box Size

Pic 2 Installation Size

Wall mounted installation

Pole ring installation











FTB- 12/24/48/96-cores –FDH-W for splitter implementations (in/out-door)



Features

- Compact and thin design
- 2 lockable door (Splice and patching section separate)
- Front plate modular
- Cable Entry (Installation and drop), from top, side or bottom equipped with grommets
- Separate storage area for drop cables
- Strength Member for Cable support
- Inside fixing holes or outside fixing with brackets
- Universally compatible (e.g. ETSI standard compliant)



Scope of Supply

- Indoor wall mount termination box with pre-mounted adapters.
- >30mm Splice tray, Pre-assembled with Pigtails SCAPC
- Outside fixing brackets, Splice protection cable ties.
- Cable entry with Grommets.

$T \wedge c$	hnical	l Data
	IIIII (AI	I IJAIA

Protection class IP	ction class IP IP 42 –ability to IP55.	
Number of connectors (A)	er of connectors (A) 12/24/48/96	
Assembly	fully populated	
Connector type SC		
Polishing plug	APC	
Connector color	Green	
Sleeve material	ceramic	
Version	Splice & Patch	
Fiber	G657A2	
Conductor type	semi-tight buffer, dry	
Fiber diameter E9 / 125 μm		
Mechanical Details		
WxHxD	450 mm x 400mm x 100mm	
Color Code	RAL 7035	
Material	Sheet Steel	





FTB- 12/24/48/96-cores (Indoor –House applications)



Features

- 12U Flush-Mount cabinet
- Perforated front door , lockable and removable
- 1 way ventilation (fan) unit with thermostat
- 2-way PDU with on/off switch –UK/Chucko type.
- Grounding screws are fixed on all parts for continuity and the grounding wires are included.
- 4+1U mounting angels.
- Excellent solution for home/small office applications for horizontal segments.
- Hassle-free cable-management.
- Consolidation point for all your cabling wires and devices.
- Ability to decorate the front door with so many colors.

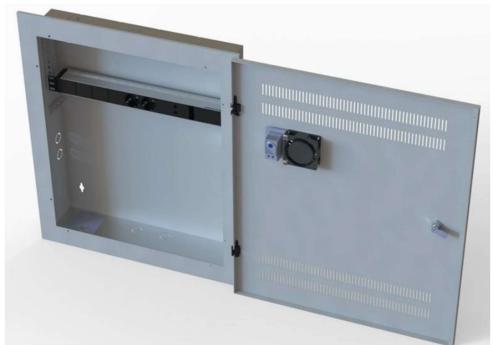
Technical specifications

reclinical specifications	
	600 x 500 x 128.30
Dimensions HxWxD in mm	
Height in U	12 (4+1U usable mounting rails)
Color code RAL	RAL 7035
Color	Light Gray
Standards	ISO9001:2000
	IEC 60917 and IEC 60297 (TSE)
Compliances	ISO9001 :2000
	IEC 60917 and IEC 60297 (TSE)
Material	Galvanized Sheet Steel
Inside Height (mm)	598
Outside Height (mm)	600 Main Body (680mm flush frame)
Load Carrying Capacity	50kg













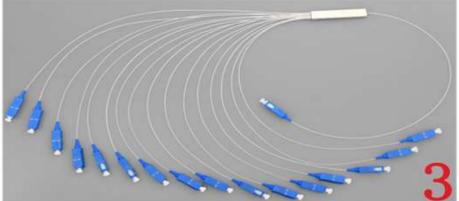






Splitters – PLC and modular splitters –FTTh









Modular Splitters -19" 1U Rack splitter



Features

•

- One or multiple splitters Packaged into a Cassette, High packing density of 10 pcs mountable on to a 1U frame.
- 32 subscribers per cassette, allows to serve a maximum of 320 subscribers in 1U mounting space
- Application areas are FTTx systems, CATV connections, wide area networks (WANs) and analog, digital passive optical networks (PONs)
- Metallic, light weight cassette.
- Snap-in type, easy mounting and dismounting.
- Bend-optimized fiber and ruggedized 1.6mm cables 2 meter long, for patching to ODF.
- Strain relief boots on outputs protects against bending
- Easy identification of cables, heat shrink labels near the connector end.
- Connector ends with Cable identifiers Numbering ferule.
- Label holder on the front plate for customer identification.

Technical specifications

Box Material	Aluminum	
Dimension (mm)	115 L x 86W x 18 D mm	
Colour	NCS 2502–B Medium Grey	
Tube material	1.6mm aqua LSZH, output 1.6mm blue LSZH	
Connector	2mm SC PC connector with mini boot	
Fiber Type	G.657A	
Fan-out Length	2.0 mtr	
Print on cable Jacket	"R&M SM-ITU-T-G657A Optical Fiber Cable"	
Testing & Packing	Foam Box, Testing Report (IL,RL and PDL Unidirectional Test,	
	taken at two wavelength : 1310 & 1550nm) Included	





Performance specifications

Parmeters1	1x32 (1 Values taken @ room temperature @1310 and 1550
	nm)
Operating Wavelength range (nm)	1260 ~1650
Insertion Loss Max (dB)	≤16.8 dB
Uniformity Max (dB)	≤1.5 dB
PDL Max (dB)	≤0.3 dB
Return Loss Min (dB)	≥55
Directivity Min (dB)	≥55
Temperature Stability	0.5
(-40 ~ 85 °C)(dB)	
Operating Temperature (°C)	-40ºC ~ +85 ºC
Storage Temperature (°C)	-40 ºC ~ +85 ºC
otorage remperature (o)	

Notes:

- 1. IL, PDL, Uniformity values are for "Without connectors"
- 2. Add an additional 0.15dB loss per connector





PLC Splitter – Cassette



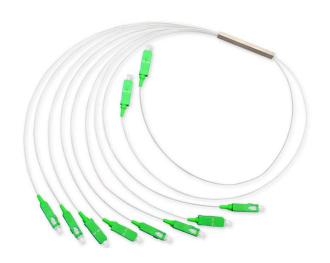


Package Style	ABS Module	Configuration Type	1:2, 1:4, 1:8, 1:16, 1:32,
			1:64, 2:8, 2:16, 2:32, 2:64
Fiber Grade	G.657A1	Fiber Mode	Single mode
Connector Type	SC/APC	Split Ratio	50/50
Input/Output Fiber	2.0mm	Input/Output Fiber	1.5m
Diameter		Length	
Insertion Loss	≤17.0dB	Return Loss	≥55dB
Loss Uniformity	≤1.5dB	Directivity	≥55dB
Polarization Dependent	≤0.3dB	Temperature Dependent	≤0.5dB
Loss		Loss	
Wavelength Dependent	≤0.5dB	Operating Bandwidth	1260~1650nm
Loss			
Dimensions (HxWxD)	0.71"x4.72"x3.15"	Temperature	Operating -40 to 85°C (-
	(18x120x80mm)		40 to 185°F)
			Storage -40 to 85°C (-40
			to 185°F)





Mini-Splitter





Package Style	Steel Tube, Bare Fiber	Configuration Type	1:2, 1:4, 1:8, 1:16, 1:32,
			2:8, 2:16, 2:32
Fiber Grade	G.657A1	Fiber Mode	Singlemode
Connector Type	SC/APC	Split Ratio	50/50
Fiber Type	Ribbon Fiber	Steel Tube Dimensions	0.16"x1.57"x0.16"
		(HxWxD)	(4x40x4mm)
Input/Output Fiber	250μm	Input/Output Fiber	1.5m
Diameter		Length	
Insertion Loss	≤7.1dB	Return Loss	≥55dB
Loss Uniformity	≤0.6dB	Directivity	≥55dB
Polarization Dependent	≤0.2dB	Temperature Dependent	≤0.5dB
Loss		Loss	
Wavelength Dependent	≤0.3dB	Operating Bandwidth	1260~1650nm
Loss			
Operating Temperature	-40 to 85°C (-40 to 185°F)	Storage Temperature	-40 to 85°C (-40 to 185°F)





Modular 19" 1U Rack Mount Splitter



Package Style	Rack Mount	Configuration Type	1:8, 1:16, 1:32, 1:64, 2:8, 2:16, 2:32, 2:64
Fiber Grade	G.657A1	Fiber Mode	Singlemode
Connector Type	SC/APC	Split Ratio	50/50
Insertion Loss	≤17.0dB	Return Loss	≥55dB
Loss Uniformity	≤1.5dB	Directivity	≥55dB
Polarization Dependent	≤0.3dB	Temperature Dependent	≤0.5dB
Loss(PDL)		Loss	
Wavelength Dependent	≤0.5dB	Operating Bandwidth	1260~1650nm
Loss			
Dimensions (HxWxD)	1.73"x19.00"x9.84"	Temperature	Operating -40 to 85°C (-
	(44x482.6x250mm)		40 to 185°F)
			Storage -40 to 85°C (-40 to 185°F)





FTTh Face Plate



























Features

- Shuttered WM-Ftth face plate
- Dimensions: 86x86mm
- Equipped with 2xSC/APC adapters and 2xSC/APC pigtails G.657A –ready for splicing, splice holder for 2 shrink splices, cable tie & splice protection.
- IP protection:20Materials: Plastic

Color: white

FTTh - Faceplate 86x86 mm -wall mounted.

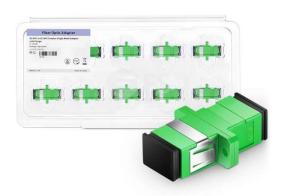




Connectivity (Adapters & pigtails)

Adapters: SC/APC to SC/APC Simplex Single Mode Fiber Optic Adapter/Coupler with Flange





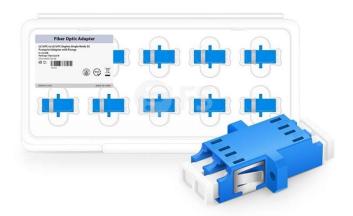
Connector Type	SC-SC	Body Style	Simplex
Polish Type	APC	Fiber Mode	Singlemode
Insertion Loss	≤0.2dB	Durability	1000 times
Mounting Type	Full flanged	Alignment Sleeve Material	Ceramic
Color	Green	Flammability Rate	UL94-V0
Package Quantity	10	RoHS Compliancy Status	Compliant





Adapters: LC/UPC to LC/UPC Duplex Single Mode SC Footprint Plastic Fiber Optic Adapter/Coupler



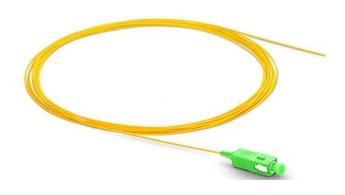


Connector Type	LC-LC	Body Style	Duplex
Polish Type	UPC	Fiber Mode	Singlemode
Insertion Loss	≤0.2dB	Durability	1000 times
Mounting Type	Full Flanged	Alignment Sleeve Material	Ceramic
Color	Blue	Flammability Rate	UL94-V0
Package Quantity	10	RoHS Compliancy Status	Compliant
Operating Temperature Range	-25 to 70°C(-13 to 158°F)	Storage Temperature Range	-25 to 70°C(-13 to 158°F)





Pigtails: SC APC Simplex OS2 Single Mode PVC (OFNR) 0.9mm Fiber Optic Pigtail

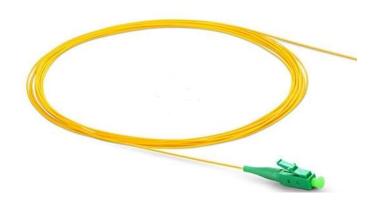


Connector A	SC	Fiber Mode	9/125 μm
Fiber Count	Simplex	Fiber Grade	G.657.A1
Minimum Bend Radius	30 mm	Polish Type	APC
Cable Diameter	0.9 mm	Cable Jacket	PVC
Jacket Color	Yellow	Wavelength	1310 nm/1550 nm
Durability	500 Times	Insertion Loss	≤0.3 dB
Interchangeability	≤0.2 dB	Return Loss	≥60 dB
Vibration	≤0.2 dB	Operating Temperature	-40~75°C





Pigtails: LC APC Simplex OS2 Single Mode PVC (OFNR) 0.9mm Fiber Optic Pigtail

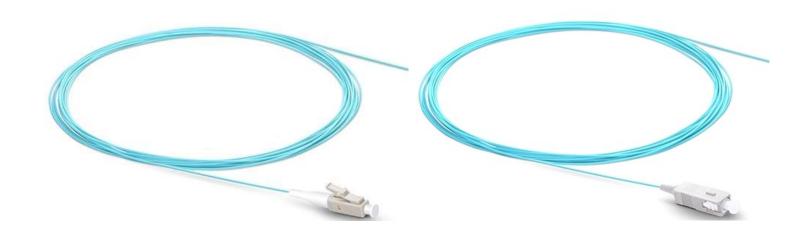


Connector A	LC	Fiber Mode	9/125 μm
Fiber Count	Simplex	Fiber Grade	G.657.A1
Minimum Bend Radius	30 mm	Polish Type	APC
Cable Diameter	0.9 mm	Cable Jacket	PVC
Jacket Color	Yellow	Wavelength	1310 nm/1550 nm
Durability	500 Times	Insertion Loss	≤0.3 dB
Interchangeability	≤0.2 dB	Return Loss	≥60 dB
Vibration	≤0.2 dB	Operating Temperature	-40~75°C





Pigtails: LC / SC UPC Simplex OM3 /OM4 Multimode PVC (OFNR) 0.9mm Fiber Optic Pigtail



Connector A	LC or SC	Fiber Mode	50/125 μm
Fiber Count	Simplex	Fiber Grade	Bend Insensitive
Minimum Bend Radius	7.5 mm	Polish Type	UPC
Cable Diameter	0.9 mm	Cable Jacket	PVC
Jacket Color	Aqua	Wavelength	850 nm/1300 nm
Durability	500 Times	Insertion Loss	≤0.3 dB
Interchangeability	<0.2 dp	Return Loss	> 20 dp
interchangeability	≤0.2 dB	Return Loss	≥20 dB









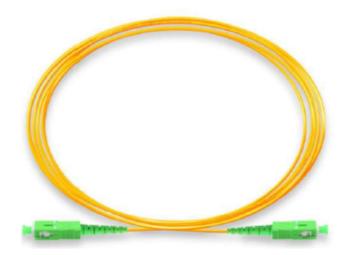






Patch Cords

SC/APC-SC/APC, G657.A2



- Both sides fitted with SC APC 8° connector.
- Fiber: SM E9/125 G.657A2
- Cable: Ø 2.0/3.0 mm, yellow.
- Patch cord with LSZH jacket, Ø 2.0/3.0 mm, yellow, singlemode acc. to G.657.A1, A2 and B2 plus OS1 and OS2 (backward compatible to G.652.A D), 9/125 μm, length.

Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 1 m Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 2 m Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 3 m Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 5 m Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 7 m Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 10 m Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 15 m Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 20 m Patch Cord SC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 25 m

Technical Data DESCRIPTION [UNIT]

Protection class IP Connector class Protection class IP (A) Number of connectors (A) Protection class IP (B) Number of connectors (B) Cable type

Jacket material
Cable jacket characteristics
Cable overall diameter
Connector type (A)
Polishing plug (A)
Return loss grade RL (A)
Connector color (A)
Connector type (B)

VALUE/VALUE RANGE IP 20

IP 20
connector
IP 20
1
IP 20
1
patch cord
LSZH
Cable met

Cable, metal-free , Zero-halogen, Flame-retardant \emptyset 2.0 mm (±0.15)

SC APC 8° 1 green SC









Polishing plug (B)
Return loss grade RL (B)
Connector color (B)
Fiber type
Conductor type
Fiber diameter

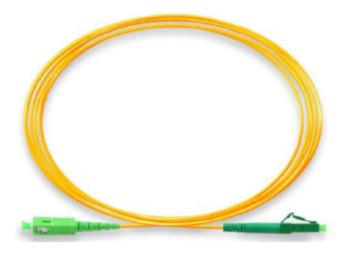
Patch cord type

APC 8° 1 green Single mode (SM) tight buffer E9 / 125 μm simplex





SC/APC-LC/APC, G657.A2



- One side fitted with SC APC 8° & other side fitted with LC APC connector.
- Fiber: SM E9/125 G.657A2
- Cable: Ø 2.0/3.0 mm, yellow.
- Patch cord with LSZH jacket, Ø 2.0/3.0 mm, yellow, single mode acc. to G.657.A1, A2 and B2 plus OS1 and OS2 (backward compatible to G.652.A D), 9/125 μm, length XXm.

Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 1 m Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 2 m Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 3 m Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 5 m Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 7 m Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 10 m Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 15 m Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 20 m Patch Cord LC APC - SC APC, green/yellow, G.657 A2, C/1, Ø 2.0mm, 25 m

Technical Data DESCRIPTION [UNIT]

Protection class IP Connector class Protection class IP (A)

Number of connectors (A)

Protection class IP (B)

Number of connectors (B)

Cable type Jacket material

Cable jacket characteristics

Cable overall diameter

Connector type (A)

Polishing plug (A)

Return loss grade RL (A)

Connector color (A)

Connector type (B)

Polishing plug (B)

Return loss grade RL (B)

Connector color (B)

Fiber type

VALUE/VALUE RANGE

IP 20

connector

IP 20

1

IP 20

1

patch cord

LSZH

Cable, metal-free, Zero-halogen, Flame-retardant

Ø 2.0 mm (±0.15)

LC

APC 8°

1

green

SC

APC 8°

1

green

Single mode (SM)



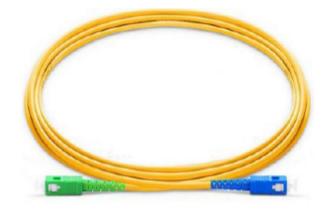


Conductor type Fiber diameter Patch cord type tight buffer E9 / 125 μm simplex





SC/PC-SC/APC, G657.A2



 One side fitted with SC PC & other side with SC APC 8° connector.

Fiber: SM E9/125 G.657A2
Cable: Ø 2.0 / 3.0 mm, yellow.

Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 1 m Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 2 m Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 3 m Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 5 m Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 7 m Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 10 m Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 15 m Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 20 m Patch Cord SC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 25 m

Technical Data DESCRIPTION [UNIT]

Protection class IP Connector class Protection class IP (A) Number of connectors (A) Protection class IP (B) Number of connectors (B)

Cable type
Jacket material
Cable jacket characteristics
Cable overall diameter

Connector type (A)
Polishing plug (A)
Return loss grade RL (A)
Connector color (A)
Connector type (B)
Polishing plug (B)

Return loss grade RL (B) Connector color (B)

Fiber type Conductor type

VALUE/VALUE RANGE

IP 20 connector IP 20 1 IP 20

patch cord LSZH

 ${\it Cable, metal-free\,,\,Zero-halogen,\,Flame-retardant}$

Ø 2.0 mm (±0.15) SC

PC
2
blue
SC
APC 8°
1
green

Single mode (SM) tight buffer











LC/PC-SC/APC G657.A2



 One side fitted with SC APC 8° & other side fitted with LC PC connector.

• Fiber: SM E9/125 G.657A2

• Cable: Ø 2.0 mm, yellow.

Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 1 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 2 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 3 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 5 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 7 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 10 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 15 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 20 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 20 m Patch Cord LC PC - SC APC, bl/green/yellow, G.657 A2, C/2, Ø 2.0mm, 25 m

Technical Data DESCRIPTION [UNIT]

Protection class IP Connector class Protection class IP (A) Number of connectors (A)

Protection class IP (B)

Number of connectors (B)

Cable type Jacket material

Cable jacket characteristics

Cable overall diameter

Connector type (A)

Polishing plug (A)

Return loss grade RL (A)

Connector color (A)

Connector type (B)

Polishing plug (B)

Return loss grade RL (B)

Connector color (B)

Fiber type

Conductor type

Fiber diameter

Patch cord type

VALUE/VALUE RANGE

IP 20

connector

IP 20

1

IP 20

1

patch cord

LSZH

Cable, metal-free , Zero-halogen, Flame-retardant

Ø 2.0 mm (±0.15)

LC

PC

2

blue

SC

APC 8°

1

green

Single mode (SM)

tight buffer

E9 / 125 μm

simplex











Street Cabinets (single / double layer)











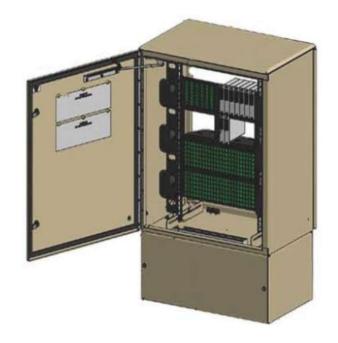






Features

- IP66 Ingress protection based on ISO/IEC 60529
- Sturdy aluminum 3mm material
- Powder-coated finish.
- Net depth of cabinet is 472mm
- 22U installation height
- 19" profile for mounting the panels.
- Plinth/base with a height of 400mm with front access (816x317mm) with fixing from inside
- Removable cable entry plate with 9 x PG21 IP66 cable glands
- Removable maintenance plate to ensure base frame access.
- Gasket between base and cabinet for maximum
 IP66 protection for the stability of cabinet
- 1U blind cover on top and bottom for better access
- Cylindrical side cable management with patch cable deposits, 5 nos each side
- 3-point locking mechanism with swing handle









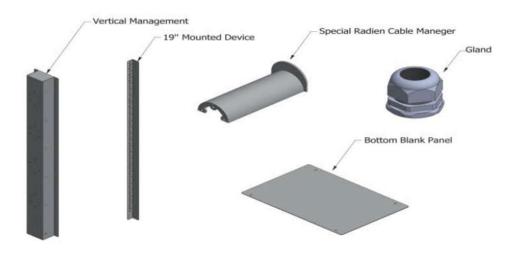




Technical specifications

Outside Size	W=900, H=1100mm, D=500mm
Material, Colour & Finish	Aluminium 3mm, (chromated, powder-coated), RAL 7035
Construction	Doors, side panels and top are all single skin and welded
	construction
	Anti-vandal structure
	Open 180° with adjustable locking device and 3-point
	lock on front
	Hinged front door
	Canopy in the top
	Grounding bar- 6 way
	2 Pcs. of 19" mounting rails – 22 U usable
	Plate in the bottom – Cable Glands 9xPG21
Protection Class	IP66 dust and waterproof
Plinth	H=400mm, Material is Aluminium with 3mm thickness
Coating Thickness	60-80 micron

Cabinet Accessories



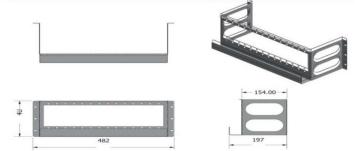




ODF Fiber Optic Patch Panel:1U and 2U



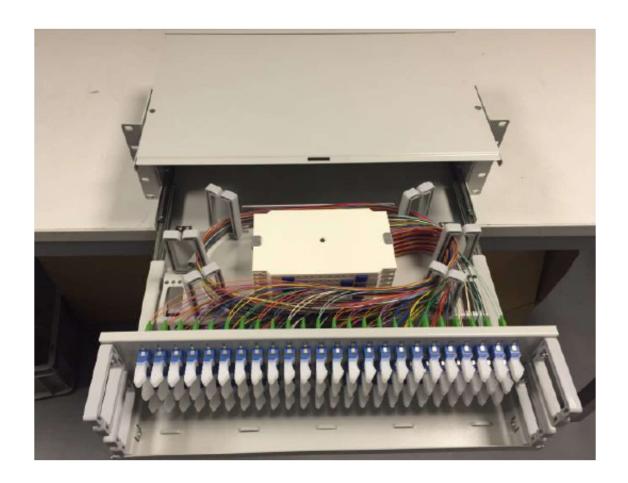
Splitter holder with PLC Splitter







Optical Distribution Frame (ODF)







ODF -192- 5U 19" SC/PC or APC G657.A2 – Drawer



Features

- Up to 192 SC adapters on four height unit (5U)
- Equipped with 192 SC Adaptors & pigtails
- Front panel equipped with patch cord manager
- ODF housing with front hinged door
- Simply patch panel mounting and dismounting
- Little mounting depth of 230mm
- Universally compatible (e.g. ETSI standard compliant)
- Guaranteed bending radius R30
- Separated storage levels for loose tubes and pigtails on the same unit
- Cable entry from the rear or from the side
- Dimension (WxDxH): 480x230x222mm
- 19" 5U slide-in unit on a telescopic drawer, splice tray plate with 16 splice trays radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters and pigtails

Technical specifications

19"	
5	
Patch Panel	
Splice	
192	
SC	
20	
PC /APC	
	5 Patch Panel Splice 192 SC 20





ODF -96 SCPC /APC G657.A2-Drawer



Features

- Up to 96 SC adapters on four height unit (3U)
- Equipped with 96 SC Adaptors & pigtails
- Front panel equipped with patch cord manager
- ODF housing with front hinged door
- Simply patch panel mounting and dismounting
- Little mounting depth of 230mm
- Universally compatible (e.g. ETSI standard compliant)
- Guaranteed bending radius R30
- Separated storage levels for loose tubes and pigtails on the same unit
- Cable entry from the rear or from the side
- Dimension (WxDxH): 480x195x135mm
- 19" 3U slide-in unit on a telescopic drawer, splice tray plate with 8 splice trays radius 30 mm, fastening material, labeling strips and installation manual
- Front panel equipped with adapters and pigtails

Technical specifications

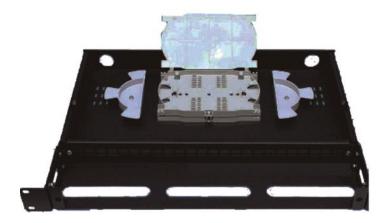
Fastening (inch):	19"
Height Units (U):	3
Rack mounting version:	Patch Panel
Version:	Splice
Capacity (ports):	96
Connector type (A):	SC
Protection class (IP) connector (A):	20
Polishing connector (A):	PC /APC
Fiber class: G.657A2 (OS2)	
Tube / Wire type: semi-tight buffer, dry	
Fiber- / Conductor diameter: E9/125 μm	
Fiber type: Single mode (SM)	





ODF -24/48- 1U 19" SC/PC or APC G657.A2 - Drawer

1U 19" ODF



- 1U 19" ODF drawer
- Dimension (WxDxH):480x320x44mm
- Capacity: 12SC or 24/48LC
- Suitable for : SC, LC, ST and FC types
- Complete with splice cassette, adapters and pigtails
- Plug and play –ready for installation.
- Galvanized sheet
- RAL 7035 or RAL 9004

2U 19" ODF -



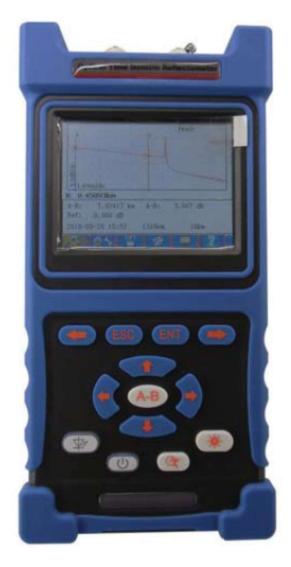
- 2U 19" ODF drawer
- Dimension (WxDxH): 480x320x88mm
- Capacity: 96SC or 144LC
- Suitable for : SC, LC, ST and FC types
- Complete with splice cassette, adapters and pigtails
- Plug and play –ready for installation.
- Galvanized sheet
- RAL 7035 or RAL 9004





Instruments

Handheld OTDR



Live Optical Signal Check Function

To have live Optical Signal Check Function, before a test pulse, First check test whether any of the optical fiber live communication optical signals and display the results. It can effectively protect test instrument and communications equipment.

Complete software support

Single page single tracing line or single page more tracing line can choose the print mode;

Batch change and batch print function;

Waveform difference contrast function:

Can be in the same window open multiple tracing line at the same time, the differences between the tracing line in the same window display and more easily compare such as optical fiber aging caused by the reasons changing parameters;

Specification:

- With 650 nm visible light source(optional)
- 2. Quick start :< 5 seconds
- Unique hotkey design: Key operation integrated hotkey function analysis of events
- 4. USB/RS-232 data interface
- 5. 1000 test records storage
- Optimization design of power supply:
 Built-in NiMH rechargeable battery charge once can support 8 hours measurement
- Multiple languages: CN/EN
- 8. Dust-shock proof (2m drop test)





Wavelength(nm) (±20nm)	1310/1550		
Dynamic Range(dB)	32/30		
Test distance(km)	100		
Touch Screen	YES		
Fiber Type	Single Mode Fiber		
Display Type	Colorful		
touch screen control	Yes		
Emitter Type	LD		
Connector Type	FC/PC(InterchangeableSC, ST)		
Measurement Time	15s、30s、1min、2min、3min		
Attenuation dead zone	<5m		
Event dead zone	<2m		
Distance Measurement Accuracy	±(1 m + 5×10-5×measurement distance + sample space		
Attenuation Detect Accuracy	±0.05 dB/ dB		
Reflection Detect Accuracy	±4 dB		
Date storage	1000 the test curve		
Date transmission	RS-232/USB		
VFL output power(dBm)	≥-3		
VFL measurement distance (km)	5km		
Power Supply	NiMH chargeable battery/ AC adapter		
Operating Temperature	0℃ ~50℃		
Storage Temperature	-20℃ ~70℃		
Relative Humidity	0~95% (non-condensing)		





Duct Rudder



Specification:

- 1. Equipped with brake device, handle is convenient for using;
- 2. Guide roller and fixed ring: fix the rod end; protect the rod jacket

from being scratched;

3. Fiber glass rod inner: Extruded process made of E-fiberglass and

high quality resin at high temperature;

- 4. Fiber glass rod outer: developed polymer;
- 5. Rolling bearing cage for mobility is strong and easy to use;
- 6. Feed device allows rod in and out smoothly;
- 7. Rustproof bull-nose pulling tips with diverse accessories;
- 8. Light weight, durable, good resistance to chemical and corrosion;
- 9. High tensile strength and bending properties to make it go through

narrow pipes easily;

10. Good temperatures adaptability, it will not soften in hot weather nor

become brittle in cold weather;

11. Meter marks: available

12. Rod colors: yellow

13. Rod Diameter: 14mm

14.Rod Length (m): 250M / 300M / 350M





Power Meters





FOPM-205 PON Optical Power Meter

As the industry's advanced PON-specific power meter, FOPM-205 PON Power Meter is specifically intended for FTTH and FTTP systems. It is capable to measure all three signals (1310nm, 1490nm and 1550nm) that carry voice, data and video, so-called triple-play applications along a single fiber. It is an essential and ideal tool for the construction and maintenance of the PON projects.

Measurement Range*	-30dBm to +10dBm	Calibrated	1310/1490/1550nm
Measurement Kange	-Soubili to Troubili		1310/1490/133011111
		Wavelengths	
Insertion Loss	1.5 dB	Accuracy	±0.5 dB
Linearity	±0.2 dB	Date Storage	1000 records
-			
Optical Connector	FC/SC/ST	Cable Type	SMF
•			
Display	2.8 inch TFT LCD	Refresh Rate of	2.5Hz
		Display	
		Display	
Auto-off Function	Supported	Pass/fail Function	Supported
		1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
Threshold Setting	10sets	Power Supply	2xNi-MH AA (2500mAh)
8			& USB Cable
			G 555 CG21C
Operating	-10°C to 50°C	Relative Humidity	0~95% (non-condensing)
Temperature			(
Dimensions (HxWxD)	7.5"x4.1"x2.2"(190x105x55mm)	Weight	700g
	7.5 X X2.2 (136X103X3311111)		, 556















FOPM-107 MPO Optical Power Meter

FOPM-107 MPO Optical Power Meter is special for testing MPO fiber. The product can test the insertion loss of MPO fibers and polarity with only one key, and also supports data storage, threshold analysis, data export and other applications. Compared with traditional instruments, the testing efficiency of FOPM-107 is more than 10 times. It is the best choice for field application of MPO room test, calibration of production line, and determination of polarity.

Wavelength Range	850~1700nm	Detector Type	InGaAs
Calibration Wavelength	850/1300nm or	Measurement Range	-50dBm to +3dBm
	1310/1550nm		
Insertion Loss Accuracy	<0.2s/channel	Resolution	0.01 dB
Linearity	±0.2 dB (-50dBm to	System Control	USB
	+5dBm)		
Interface Type	SM/MM MPO/PC 12 fibers	Continuons Working	>10h
	female	Hours	
Operating Temperature	-5°C to +40°C	Storage Temperature	-5°C to +40°C
Dimensions(HxWxD)	220x110x70mm	Weight	850g
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Laser source





FHOM-201 Power Meter + Laser Source Handheld Optical Multimeter

FHOM-201 Optical Multimeter is the integration of power meter and light source, optical multimeter is used to measure the optical power loss of the fiber link. The Optical Power Multimeter is the necessary tool for all technicians. It is widely used in fiber-optic line project construction, testing and maintenance, such as digital data network, telecommunication network and cable television.

data network, telecomm	iunication network and cable television	l.	
OPM Calibrated Wavelengths	850/1300/1310/1490/1550/1625nm	OPM Measurement Range	-50dBm to +26dBm
OPM Resolution	0.01dB	OPM Accuracy	±0.2dB
Linearity	±2%	Detector Type	InGaAs
OLS Wavelengths	1310/1550nm	OLS Output Power	> - 6.0dBm
OLS Emitter Type	FP	OLS Modulation	270Hz / 1KHz / 2KHz
OPM Connector	FC/SC/ST & 2.5mm UPP	OLS Connector	FC
Cable Type	OLS@ SMF / OPM@ SMF & MMF	Auto-off Function	Supported
Power Supply	2xAA Batteries	Relative Humidity	< 90% (non-condensing)
Operating Temperature	-10°C to +50°C	Storage Temperature	-20°C to +60°C





Media Converters, Extenders



Mini Unmanaged 1x 10/100/1000Base-T RJ45 to 1x 1000Base-X SFP Slot **Gigabit Ethernet Media** Converter, American Plug Standard



Mini Unmanaged 1x 10GBase-X to 1x 10GBase-X 2SFP+ Slots 10Gigabit Fiber Media Converter, American Plug Standard



Mini 1x 10/100/1000Base-T RJ45 to 1x 100/1000Base-X Single Mode SC 1310nm 10km Gigabit Ethernet Media Converter, **American Plug Standard**



Mini 1x 10/100/1000Base-T RJ45 to 1x 100/1000Base-X Multimode SC 850nm 220/550m Gigabit Ethernet Media Converter, **American Plug Standard**



12 Slots 10/100M and 10/100/1000M Mini Media Converter Chassis, 1U Rack Mount, Dual Power **AC 220V**



Mini 1 Channel **Unidirectional HD-SDI** over Optical Fiber Transmitter and Receiver Set



4 Channel Unidirectional **HD-SDI** over Optical Fiber **Transmitter and Receiver** Set



16 Channel Unidirectional HD-SDI over Optical Fiber **Transmitter and Receiver** Set









Accessories

Transceivers

100/200/400/800G Transceivers 10/16/32G Transceivers Industrial Transceivers 25/40/50G Transceivers SFP Transceivers

MTP®/MPO Cable Assemblies

MTP®/MPO Trunk Cables

MTP®/MPO-LC Breakout Cables

MTP® PRO Trunk Cables

MTP® PRO Field Tool

MTP®/MPO Adapters

MTP®/MPO Cleaners

Customized MTP®/MPO Cables

Passive Components, Termination

PLC Splitters

Optical Attenuators

Fiber Connectors

FWDM Filters

Fiber Splice Accessories

Fiber Optic Wall Plates

Active Optical Cables Direct Attach Cables

DAC/AOC Breakout Cables

40G DAC Breakout Cables

100G DAC Breakout Cables

200G DAC Breakout Cables

400G DAC Breakout Cables

40G AOC Breakout Cables

100G AOC Breakout Cables

Fiber Optic Panels □

Fiber Optic Cassettes □

Fiber Optic Enclosures □

MTP®/MPO-LC Breakout Cassettes \(\)

Cable Management □

Racks & Cabinets

Cat5e/Cat6/Cat7/Cat8

Patch Cables □

Pre-terminated Trunk Cables □

Bulk Cables □

Cat5e Bulk Ethernet Cables

Cat6 Bulk Ethernet Cables

Cat6a Bulk Ethernet Cables

Cat7 Bulk Ethernet Cables

Outdoor Bulk Ethernet Cables

RJ45 Connectors & Jacks

Patch Panels □

Copper Tools & Testers





Fiber Optic Cleaning

NEOCLEAN Pen One-Push Cleaner



NEOCLEAN-M MTP/MPO-8/12/24 One-Push Cleaner (600+ Times)



NEOCLEAN-R2 Fiber Optic Cassette Cleaner for LC/SC/FC/ST/MU/MTP/MPO **Connectors (400+ Times)**























Basic Fiber Testing

Pen Shape Visual Fault Locator, 1mW



AutoGet Intelligent Fiber Endface Microscope with HD Touchscreen for LC/SC/FC Connectors



400X Handheld Fiber Optic Inspection Probe
Microscope with USB Cable for LC/SC/FC
Connectors



<u>EasyGet Fiber Endface Microscope with Wifi</u> <u>Wireless for LC/SC/FC</u>



FHOM-202 Optical Power Meter + Visual Fault Locator with 2.5mm



Handheld Fiber Optical Light Source, 1310/1550nm













Advanced Fiber Testing

Handheld OTDR 1310±20nm/1550±20nm



AOT600 Optical Talk Set



Single Mode Optical Fiber Identifier FOFI-201



Fiber Optic OTDR Launch Cable Box, Singlemode







Fiber Polish & Cleaver

High Precision Fiber Optic Cleaver FS-08C



Replacement Blade/Cutting Wheel for FS-08C Fiber Cleavers



<u>Fiber Optic Polishing Machine FS-20A Square</u> <u>Pressurized Polisher</u>



<u>Polishing Fixture/Holder for ST/UPC 20 Connectors</u> (ST/UPC-20 Connector Jig)







Fiber Optic Tools

<u>Field Tool for MTP® PRO Connectors to Change</u> <u>Polarity and Pins</u> <u>Fiber Optic Cleaning Kit with 1.25mm&2.5mm</u> <u>Hand Held Fiber Microscope</u>





Fiber Optic Fusion Splicing Tool Kit FOTK-704



Fiber Optic Construction Tool Kit FOTK-702



Fiber Optical Stripper with Three Holes



Miller Fiber/Copper Optic Connector Insertion & Extraction Tool













Copper Tools & Testers

All-in-one Dovetail Clip Wire Stripping tool

RJ45/RJ12/RJ11/Cat5/Cat5e/Cat6/Cat6a/Cat7 Stripper/Cutter/Crimper



All-in-one Wire Stripping tool

RJ45/Cat5/Cat5e/Cat6 Stripper/Cutter/Crimper



Network Installation Tool Kit NF-1301



LSA-PLUS Insertion/Punch Down Tool













Quality Certifications

At FORTE, our Quality Commitment lies in all aspects of processes, resources, and methods that enable us to build superior networks for our customers. Through quality policy focusing on continuous improvement of products and services, we're able to achieve the highest levels of satisfaction for our customers. To that end, every FORTE employee is accountable for contributing to the value of the products and services we deliver.

Quality Assurance in All Ways

Advanced Test Environment

To ensure the best quality, reliability and interoperability of its products, FORTE maintains a most advanced and comprehensive testing environment including an in-house testing labs, running real applications to verify "end-to-end" performance of products.

Customer Focus

FORTE is dedicated to build our growth through close and long-lasting relationships with our customers. Attaching great importance to customer satisfaction, we're committed to providing our customers with the best solutions and guaranteeing their satisfaction. Personalized solution is provided; every suggestion and feedback is valued by us.

Sustainable Management

FORTE focuses on growth and strives for sustainable profitability that secures our future. Under the guidance of quality and continuous improvement culture, FORTE implements the business philosophy of sustainable development, giving high priority to various aspects of sustainability - economic, environmental and societal.

Quality Control Benchmarked to Best Industrial Standards

Quality is FORTE's highest priority. We achieve this goal by standardized quality assurance procedures and continuously monitoring and supervising the production process to ensure that our customers receive high quality components. In our in-house testing labs, application tests on large varieties of products are going on every day. Using the world's most advanced analytical equipment;

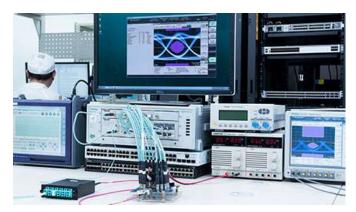




"end-to-end" performance of products will be verified in different application situations and recorded in test report.













Where we are manufacturing?

As FORTE we are manufacturing our products in a certified factories in China, such factories are certified with all/some of the below certificates –depend on the factory policy- and procedures, but what we can assure you is that, All FORTE products are fully manufactured and tested as per FORTE testing procedure and international standards and <u>subject to the manufacturer standard warranty.</u>













ISO 9001:2015

These quality management standards maintained by the International Organization of Standardization (ISO), provide a number of business process requirements for consistent product manufacturing and delivery to meet customers' expectations.



ISO 14001:2015

This product is in conformity with ISO 14001. It is intended for use by an organization seeking to manage its environmental responsibilities in a systematic manner that contributes to the environmental pillar of sustainability.



RoHS

RoHS restricts the use of hazardous substances in electrical and electronic equipment in European Union markets. The directive (EU) 2015/863 of RoHS specifies maximum levels for the following 10 restricted substances: Cadmium, Lead, Mercury, Hexavalent Chromium, Polybrominated Biphenyls, Polybrominated Diphenyl Ethers, Bis (2-Ethylhexyl) phthalate, Benzyl butyl phthalate, Dibutyl phthalate, Diisobutyl phthalate.



CE

The CE marking is a mandatory European marking for certain product groups to indicate conformity with the essential health and safety requirements set out in European Directives. FS products are produced under the requirements of CE to indicate conformity with the essential health and safety.













The FCC is a certification mark employed on electronic products manufactured or sold in the United States, which certifies that the electromagnetic interference from the device is under limits approved by the Federal Communications Commission. FS's products are fully accord with the FCC, which aims to manage the radio wave and magnetic fields more reasonably.

FORTE®

Well connected



