

# PREMIUM CONNECTIVITY SOLUTIONS

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OEM Enclosure

ENSURE

# MEET ENSURE

With a scalable, customizable production chain and a massive commitment to R&D, Ensure crafts premium components (PLC splitters, ceramic ferrules, passive optical components, WDM products, and OEM assembly) to meet the exploding growth of fiber optic networks. We manufacture all essential components on-site and control the entire process from start to finish. We can also provide white-label design and packaging for customers who require it.

We've helped customers exceed expectations in quality and reliability since our founding in 2001. Along with our parent company, HH Group plus our affiliated telecommunications corporate siblings, we are an invaluable partner in helping customers like you build bridges from today to an ever-more connected tomorrow.

**Are you ready for what's to come?**

## THE CHALLENGE

Explosive growth. Insatiable demand. Speed, reliability, and scalability define the high-performance digital infrastructure of tomorrow. As FTTx and 5G platforms take center stage in content delivery and communications, the thirst for digital programming, reliance on remote workforces and video conferencing, plus an IoT landscape that connects everything from doorbell cams to diaper sensors—shows no signs of slowing down.



## QUALITY FIRST

We help customers meet the future head-on with an unwavering commitment to quality. We invest heavily in specialized equipment and continuously develop and perfect complex, industry-leading processes in our laboratories. Perhaps most importantly, we control the entire production chain from start to finish, making sure every component that comes off the line is flawless.

# OUR OEM SOLUTIONS

## OEM ASSEMBLY

Our industry experience and highly-qualified production teams guarantee that we can develop and do integrative assembly of your solutions all within our facilities, which optimizes your costs and ensures speedy delivery times.

## ENSURE INJECTION MOULDING WORKSHOP

Many different types of injection molding machines support large-scale production of plastic FTTH boxes, fiber optic splice closures, faceplates, splice trays, and so on.



## OEM MANUFACTURING AND ASSEMBLY DPT

We dedicate and train highly-skilled production teams specific to your OEM project. We ensure consistency over the long-term as your assigned teams grow with you and keep a watchful eye on quality and every last detail.

## PARTNERSHIP CUSTOMIZATION SECURITY



Our OEM customers benefit from our full portfolio of components, technologies, know-how, design capabilities, and manufacturing infrastructure. We can tailor unique solutions specific to your project in component production, assembly, and subassembly, plus our engineers can design customized mount and assembly protocols for your approval. Consider us an arm of your company that happens to live in our facilities!

Another fact that allows us to build and keep long-term partnerships with our OEM customers is taking nondisclosure very seriously! We ensure the security and discretion of our customers' proprietary information.

**Make yourself at home.**

# WHAT WE OFFER

## OUR PORTFOLIO

Plastic fiber optic terminal box	<b>7-9</b>
Fiber optic face plate	<b>10</b>
Fiber optic splice closure	<b>11</b>
Inline type fiber optic splice closure	<b>12-14</b>
Dome type fiber optic splice closure	<b>15</b>
Fiber Optic Splice Tray	<b>16-17</b>



## Plastic fiber optic terminal box / FTTH box

Fiber optic terminal box is equipment that is mainly used for optical cable distribution, the fusion of optical cable and pigtail, and the storage and protection of the fiber. It is suitable for the direct and branch connection of the optical fiber cable and protects the optical fiber connector.

Ensure produce plastic and metal fiber optic terminal box that 2, 4, 8, 12, 16, 24, 48, 96, fibers capacity. The box can be different adapter panel SC, FC, LC, ST... And some boxes can load PLC splitters, they are often used in FTTH projects.



**ES056**



**ES057**

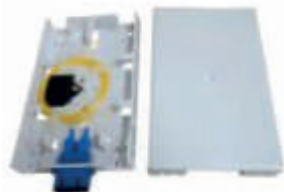


**ES058**



**ES059**

MODEL	DIMENSION W*H*D (MM)	MATERIAL	ADAPTER PORT	SPLITTER	SPLICING CAPACITY	CABLE PORT	APPLICATION
ES056	182.5x306.4x115.5	ABS	18 SC simplex	PLC 1:16 steel tube type	18 fibers	2 round, 1 oval, 16 output	Outdoor wall mounted or pole mounted; Cable entry without cutting.
ES057	182.5x306.4x115.5	ABS	/	2pcs PD1X8 or 1pc PD1X16 splitter cassette	18 fibers		
ES058	182.5x306.4x115.5	ABS	18 SC simplex	PLC 1:16 steel tube type	18 fibers	2 round, 1 oval, 16 output	
ES059	182.5x306.4x115.5	ABS	/	2pcs PD1X8 or 1pc PD1X16 splitter cassette	18 fibers		



**ES02**



**ES03**



**ES04**



**ES05**



**ES06**



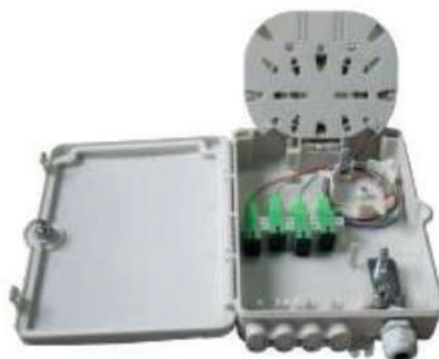
**ES07**

MODEL	DIMENSION W*H*D (MM)	MATERIAL	ADAPTER PORT	SPLICING CAPACITY	CABLE PORT	APPLICATION
ES02	102.8x164x20	ABS	1 SC duplex	12 fibers	4 ports	Indoor wall mounted; Cable entry without cutting.
ES03	150x110x34	ABS	4 SC simplex	4 fibers	2 ports	Indoor wall mounted
ES04	141.6x211.6x39.8	ABS	4 SC simplex	8 fibers	1 in & 4 out ports	Outdoor wall mounted; Pole mounted optional; Can load PLC 1:4 splitter.
ES05	130x180x30.4	ABS	4 SC simplex	8 fibers	3 ports & 4 drop cable ports	Indoor wall mounted; Cable entry without cutting; Can load PLC 1:4 splitter & 4pcs mechanical splicers.
ES06	90x165.73x24.1	ABS	4 SC simplex	4 fibers	2 ports & 4 drop cable ports	Indoor wall mounted; Cable entry without cutting; Can load PLC 1:4 splitter
ES07	90x124x22	ABS	2 SC simplex	4 fibers	2 ports	Indoor wall mounted; Cable entry without cutting.





**ESA23**



**ESA24**



**ESA25**



**ESA26**

MODEL	DIMENSION W*H*D (MM)	MATERIAL	ADAPTER PORT	SPLICING CAPACITY	CABLE PORT	APPLICATION
ESA23	130x199x28.5	ABS	8 SC simplex	8 fibers	2 ports	Indoor wall mounted; Cable entry without cutting.
ESA24	171.4x234.5x47.4	ABS	8 SC simplex	8 fibers	1 PG gland & 8 out ports	Outdoor wall mounted & pole mounted; Can load PLC 1:4, 1:8 splitter.
ESA25	193x246.5x53.2	ABS	24 SC simplex	24 fibers	2 ports	Indoor wall mounted; Cable entry without cutting; Two modules: the one is for max. 24 fiber splicing, the other is for load 1 PLC 1:16 splitter & 8 fiber splicing.
ESA26	150x226x54.5	ABS	/	48 fibers	1 round & 1 oval & 12 drop cable ports	Indoor wall mounted; Cable entry without cutting.



**ESB30**



**ESB33**



**ESB34**



**ESB35**



**ESB36**



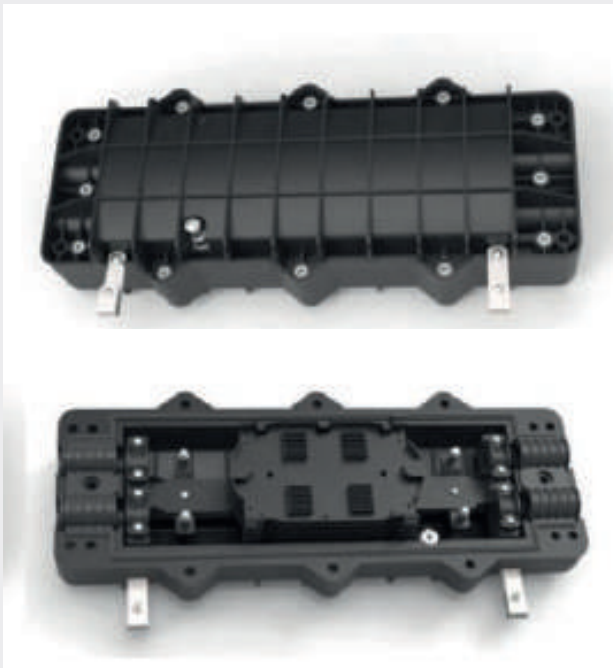
**ESB37**

MODEL	DIMENSION W*H*D (MM)	MATERIAL	ADAPTER PORT	SPLICING CAPACITY	APPLICATION
ESB30	86.5x86.5x20.4	ABS	2 SC simplex	2 fiber	Indoor wall mounted
ESB33	86x86x24.2	ABS	2 SC simplex	2 fiber	Indoor wall mounted
ESB34	97.9x86.3x22	ABS	2 SC simplex	2 fiber	Indoor wall mounted; With hinged cover
ESB35	97.8x86.1x27.9	ABS	2 SC simplex	2 fiber	Indoor wall mounted; With hinged cover
ESB36	85x85x26	ABS	2 SC simplex without flange	2 fiber	Indoor wall mounted
ESB37	130x84x25	ABS	2 SC simplex	2 fiber	Indoor wall mounted

## Fiber optic splice closure

Fiber optic splice closure is the equipment used for optical fiber cable splicing, joint, and protection. It is waterproof and dustproof and suitable for outdoor aerial hanged, pole-mounted, wall-mounted, duct, buried application.

ENSURE produce inline (horizontal) type and dome (vertical) type fiber optic splice enclosure with ABS, PP, PC ... plastic. There are 12, 24, 48, 72, 96, 144, 288, 576 fibers splice capacity for choice.



### Inline type fiber optic splice closure: **ESOX3**

- Dimension: 424x173.6x104mm
- Material: PP plastic
- Splice tray qty: 6pcs
- Capacity: 144 fibers
- Cable port: 4 ports



### Dome type fiber optic splice closure: **ESOX56**

- Dimension:  $\Phi 151.7 \times 549$ mm
- Material: PP plastic
- Splice tray qty: 6pcs
- Capacity: 144 fibers
- Cable port: 1 oval & 4 round ports



**ES7A2**



**ES7A3**



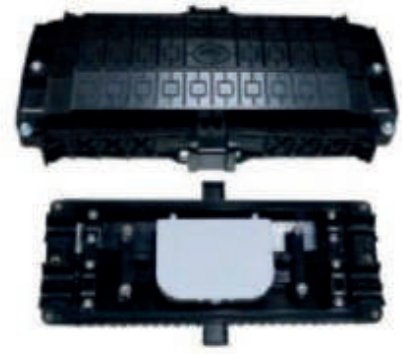
**ES7A4**



**ES7A5**



**ES7A6**



**ES7A7**

MODEL	DIMENSION L*W*H (MM)	MATERIAL	SPLICE TRAY	MAX. CAPACITY	CABLE PORT	APPLICATION
ES7A2	466.5x179.8x120.6	ABS	6 tray 12-24FO	144 fibers	4 ports	Outdoor aerial hanged, wall mounted
ES7A3	466.5x179.8x120.6	ABS	6 tray 12-24FO	144 fibers	6 ports	
ES7A4	466.5x179.8x120.6	ABS	6 tray 12-24FO	144 fibers	8 ports	
ES7A5	320x136x66	ABS	3 tray 12-24FO	72 fibers	4 ports	Outdoor aerial hanged, wall mounted
ES7A6	320x136x66	ABS	3 tray 12-24FO	72 fibers	4 ports	
ES7A7	400x200.2x107	ABS	4 tray 12FO	48 fibers	6 ports	Outdoor aerial hanged, wall mounted



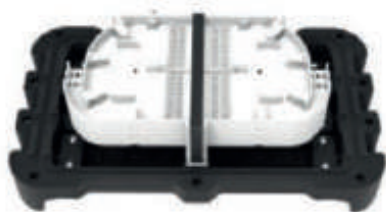
**ES641**



**ES642**



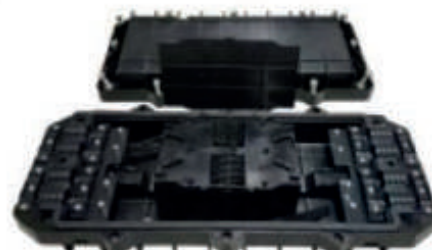
**ES643**



**ES644**



**ES645**



**ES646**

MODEL	DIMENSION L*W*H (MM)	MATERIAL	SPLICE TRAY	MAX. CAPACITY	CABLE PORT	APPLICATION
ES641	190x90.1x21.5	ABS	1 module 6-12FO	12 fibers	2 ports	Outdoor aerial hanged, wall mounted
ES642	245x150x30.1	PP	1 tray 12-24FO	24 fibers	4 ports	Outdoor aerial hanged, wall mounted
ES643	300x102.7x42	PP	1 module 6-12FO	12 fibers	2 ports	Outdoor aerial hanged, wall mounted
ES644	330.8x194.7x113	PP	3 tray 24FO	72 fibers	6 ports	Outdoor aerial hanged, wall mounted
ES645	330x183x115.5	PP	3 tray 24FO	72 fibers	6 ports	Outdoor aerial hanged, wall mounted
ES646	580x252x134	PP	12 tray 12-24FO	288 fibers	6 ports	Outdoor aerial hanged, wall mounted



**ESC4-1**



**ESC4-2**



**ESC4-3**



**ESC4-4**



**ESC4-5**



**ESC4-6**

MODEL	DIMENSION L*W*H (MM)	MATERIAL	SPLICE TRAY	MAX. CAPACITY	CABLE PORT	APPLICATION
ESC4-1	281.6x200.3x88.5	ABS	4 tray 6-12FO	48 fibers	2 ports	Outdoor aerial hanged, wall mounted, pole mounted
ESC4-2	281.6x200.3x88.5	ABS	2 tray 6-12FO	24 fibers	2 ports	Outdoor aerial hanged, wall mounted, pole mounted;
ESC4-3	281.6x200.3x88.5	ABS	2 tray 6-12FO	24 fibers	2 ports	Can load 18 SC simplex adapter & PLC1:16 splitter.
ESC4-4	281.6x200.3x88.5	ABS	4 tray 6-12FO	48 fibers	3 ports	Outdoor aerial hanged, wall mounted, pole mounted
ESC4-5	281.6x200.3x88.5	ABS	2 tray 6-12FO	24 fibers	3 ports	Outdoor aerial hanged, wall mounted, pole mounted;
ESC4-6	281.6x200.3x88.5	ABS	2 tray 6-12FO	24 fibers	3 ports	Can load 18 SC simplex adapter & PLC 1:16 splitter.



**ESX91**



**ESX92**



**ESX93**



**ESX94**

MODEL	Dimension D*H (mm)	MATERIAL	SPLICE TRAY	MAX. CAPACITY	CABLE PORT	APPLICATION
ESX91	Φ170.5x441	ABS	5 tray 12-24FO	120 fibers	4 ports	Outdoor aerial hanged, pole mounted, wall mounted; Mechanical sealing.
ESX92	Φ170.5x441	ABS	5 tray 12-24FO	120 fibers	6 ports	
ESX93	Φ189x501.5	ABS	6 tray 24FO	144 fibers	6 round or 1 oval & 4 round ports	Outdoor aerial hanged, pole mounted, wall mounted; Heat shrinkable sealing.
ESX94	Φ182.5x509.1	ABS+PC	4 trays	576 fibers; ribbon sleeves	4 round & 1 oval port	Outdoor aerial hanged, pole mounted, wall mounted; Heat shrinkable sealing

## Fiber Optic Splice Tray

The fiber optic splice tray is used to protect the bare fiber after fusion and has a function to accept a little redundant bare fiber. It is mainly used in fiber optic distribution box, fiber optic splice closure, and termination box.



**ES-D11**



**ES-D12**



**ES-D13**



**ES-D14**

MODEL	DIMENSION L*W*H (MM)	MATERIAL	SLOT QTY	MAX. CAPACITY	FEATURES
ES-D11	158x95.1x15.3	ABS	12	24 fibers	with metal plug for closing cover
ES-D12	157.1x96.4x15.8	ABS	12	24 fibers	with screw hole on cover
ES-D13	126x88x19	ABS	12	24 fibers	Mini size, with cover
ES-D14	172.2x119.4x18.2	ABS	12	24 fibers	with cover



**ES-E11**



**ES-E12**



**ES-E13**



**ES-E14**

MODEL	DIMENSION L*W*H (MM)	MATERIAL	SLOT QTY	MAX. CAPACITY	FEATURES
ES-E11	194x135x12	ABS	16	16 fibers	with cover
ES-E12	139.2x95.3x13.2	ABS	6	12 fibers	with cover
ES-E13	159.8x130x12.9	ABS	12	24 fibers	with cover
ES-E14	223.5x116x12.2	ABS	12	24 fibers	with transparent cover & identify label





**ES021**



**ES022**



**ES023**



**ES024**



**ES025**



**ES026**

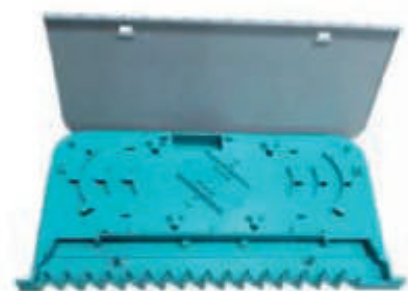
MODEL	Dimension L*W*H (mm)	MATERIAL	SLOT QTY	MAX. CAPACITY	FEATURES
ES021	245x110x6.2	ABS	24	24 fibers	with transparent cover
ES022	113.5x110x7.4	ABS	12	12 fibers	with transparent cover
ES023	280.8x108x8.5	ABS	24	24 fibers	with transparent cover
ES024	226x92x10.8	ABS	12	24 fibers	with transparent cover
ES025	123x120x7.2	ABS	12	12 fibers	with transparent cover
ES026	172x88x10.7	ABS	12	24 fibers	with transparent cover



**ES111**



**ES112**



**ES113**

MODEL	Dimension L*W*H (mm)	MATERIAL	ADAPTER PORT	MAX. CAPACITY	FEATURES
ES111	358.3x264.4x25	ABS	12 SC simplex	12 fibers	with aluminum blue cover
ES112	344.8x228.7x25.5	ABS	12 SC simplex	24 fibers	with plastic gray white cover
ES113	412.5x198.2x24.4	ABS	16 SC Simplex	16 fibers	with plastic gray white cover

# PREMIUM CONNECTIVITY SOLUTIONS

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