PREMIUM CONNECTIVITY SOLUTIONS

OPTICAL ADAPTORS 2020

ENSURE

MEET ENSURE

With a scalable, customizable production chain and massive commitment to R&D, Ensure crafts premium components (PLC splitters, ceramic ferrules, passive optical components, and WDM products) 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 con-nected tomorrow.

Are you ready for what's to come?

CONTENTS

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—show 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.

FEATURES AND APPLICATIONS

Main features:

- Low insertion loss
- IEC compliant
- High-precision phosphor bronze or zirconia sleeve
- High reliability and stability

Main applications:

- WAN/LAN and access networks
- CATV fiber optic links
- System interconnection
- Test equipment

PRODUCT INFORMATION

Parameter	Unit	Min	Type	Max
Type			FC, SC, ST, LC, MU, MPO	
Insertion loss: SMF	dB			0.2
Insertion loss: MMF	dB			0.3
Connection durability 500 m	dB		<0.1	
Sleeve withdrawal force			2.0~5.9 (200gf~600gf)	
Operating temperature	ºC	-20		+85
	ºC	-40		+85

HOW TO CREATE THE PRODUCT REFERENCE

Conector		Style		Flange		Key Width		Sleeve	
SC-ST	S/S	SIMPLEX	SX	SM	SM	SQUARE	S	ZIRCONIA SP	Z
		DUPLEX	DX	OS1 & OS2	S1	RECTANGULAR	R		

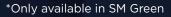Your reference = [S/S] - [DX] - [S1] - [R] - [Z]

SC ADAPTORS

Easy and quick installation

SC adaptors are extensively used in fiber management systems. As an interconnection device used for connecting two SC types with flange and flangeless configurations, our adaptors feature high TG hooks to prevent unwanted hook opening in harsh environments, an excellent insertion loss rate, and various colours to identify fiber type.

Connector		Style		Fiber		Style		Sleeve	
SC/UPC	SU	SIMPLEX	SX	SM	SM	BLUE	BL	ZIRCONIA	Z
SA/APC*	SA	DUPLEX	DX	OS1 & OS2	S1	YELLOW	YL	BRONZE	B
		QUAD	QX	MM(50,0 -STD)	M	BLACK	BK		
				MM(62,5 -OM1)	M1	ORANGE	OR		
				MM(50,0 -OM2)	M2	BEIGE	BE		
				MM(50,0 -OM3)	M3	AQUA	AQ		
				MM(50,0 -0M4)	M4	VIOLET	VI		
				MM(50,0 -OM5)	M5	LIME GREEN	LG		

Hook		Flange		Holding clip		Dust/laser shutter	
HIGH Tg	H	WITH FLANGE	WF	PLASTIC CLIP	PC	NO	N
		WITHOUT FLANGE	WoF	METAL CLIP	MC	YES INTERNAL	YI
						YES EXTERNAL	YE

*Only available in SM Green

LC ADAPTORS

The famous King of Performance

Available as SC footprint for LC Duplex adaptors allowing it to be utilised in SC panels. Manufactured with high precision alignment with zirconia sleeves permitting low insertion loss and high reconnectability. Housing is available in various colours with flange and flangeless options.

Connector		Style		Fiber		Style		Sleeve	
LU/UPC	LU	SIMPLEX	SX	SM	SM	BLUE	BL	ZIRCONIA	Z
LC/APC*	LA	DUPLEX	DX	OS1 & OS2	S1	YELLOW	YL	BRONZE	B
LC/UPC metal**	LM	QUAD	QX	MM(50,0 -STD)	M	BLACK	BK		
				MM(62,5 -OM1)	M1	ORANGE	OR		
				MM(50,0 -OM2)	M2	BEIGE	BE		
				MM(50,0 -OM3)	M3	AQUA	AQ		
				MM(50,0 -0M4)	M4	VIOLET	VI		
				MM(50,0 -OM5)	M5	LIME GREEN	LG		

Hook		Flange		Holding clip		Dust/laser shutter		SC Footprint	
HIGH Tg	H	WITH FLANGE	WF	PLASTIC CLIP	PC	NO	N	NO	N
		WITHOUT FLANGE	WoF	METAL CLIP	MC	YES INTERNAL	YI	YES	Y
						YES EXTERNAL	YE		

*Only available in SM Green
**Only available in Quad Metal Zirconia with Flange with SC footprint

FC/ST/UM/DIN/D4/SMA

Where excellence meets the metal

All adaptors below are made with a metal housing. FC adaptors are available in solid or two-piece bodies in square, oval, or round type. Round type is available in "D" and "DD" type. ST adaptors are available in simplex and duplex housing.

Connector		Style		Sleeve		Key width		Flange	
FC	F	ROUND	R	ZIRCONIA SP	Z	2.15mm	W1	2.15mm	W1
		SQUARE*	S	METAL SP	M	2.05mm	W2	2.05mm	W2

Connector		Style		Sleeve					
ST	ST	SIMPLEX	SX	ZIRCONIA SP	Z				
		DUPLEX	DX						

Connector		Style		Sleeve					
MU	M	SIMPLEX	SX	ZIRCONIA	Z				

Connector		Style							
DIN metal	DI	SIMPLEX	SX						
D4 metal	D								
SMA metal	A5								

*Only available in Zirconia SM

HYBRID ADAPTORS

The most diverse range of adaptors

All adaptors listed below are made with metal housing.

Connector		Style		Flange		Sleeve			
SC-ST	S/S	SIMPLEX	SX	SQUARE	S	ZIRCONIA SP	Z		
		DUPLEX	DX	RECTANGULAR*	R				
SC-ST	SM/SM	SIMPLEX	SX	RECTANGULAR	R	ZIRCONIA SP	Z		
		DUPLEX	DX						
LC-SC	LC/SC	SIMPLEX	SX	RECTANGULAR	R	ZIRCONIA	Z		

Connector		Style		Flange		Key width		Sleeve	
FC-SC	FC/SC	SIMPLEX	SX	SQUARE	S	2.15mm	W1	ZIRCONIA SP	Z
				RECTANGULAR	R				
FC-ST	FC/ST	SIMPLEX	SX	SQUARE	S	2.15mm	W1	ZIRCONIA SP	Z
				RECTANGULAR	R				
LC-ST	LC/ST	SIMPLEX	SX	SQUARE	S	2.15mm	W1	ZIRCONIA SP	Z
				RECTANGULAR	R				
LC-FC	LC/FC	SIMPLEX	SX	SQUARE	S	2.15mm	W1	ZIRCONIA SP	Z
				RECTANGULAR	R				

*Only available in Duplex

LSH & MPO

Safety, stability, and style

Our E2000 Simplex adaptor is available with a high-quality split ceramic sleeve, in flange or flangeless types.

High density, more precision

Our MPO adaptors are available in four types:

1. Key up – Key down with flange
2. Key up – Key down without flange
3. Key up – Key up with flange
4. Key up – Key up without flange

Connector		Style		Fiber		Color		
LSH PC	E	SIMPLEX	SM	SM	S	BLUE	BL	
LSH APC	EA	SIMPLEX	SM	SM	S	GREEN	GR	

Connector		Flange							
MPO/MTP	MP	STANDARD	FS						
		NO FLANGE	FN						

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