



Industrial applications, military systems, and security networks



We Create, We Customize, We Connect

SANNA TECHNOLOGIES

Providing engineering excellence, connecting you and beyond.

SANWA Technologies Co., Ltd. (formerly Sanwa Denki Kogyo Co., Ltd.) was established in 1947 and has since become a renowned manufacturer of communication and connectivity solutions, specializing in the global optical communications market. With over 75 years of innovation and engineering excellence, SANWA has developed and manufactured high-quality connectivity solutions and components to enhance the performance of optical networks both today and for the future.

Manufacturers designing products since 1947.

SANWA specializes in optical solutions that serve a broad range of international customers within the Telecom, Enterprise, Datacom, Premise wiring, CATV, OEM, Utility, Municipality, Security, and Aerospace/Military markets. With over 40 years of experience in fiber optic components and passive assembly manufacturing, we offer a variety of products and custom solutions tailored to your needs.

Our Vision

For over 75 years, SANWA has sought to establish relationships that are beyond transactional. Diligently collaborating on both custom and standard products with expeditious local support. Over time, we have transformed the traditional Japanese manufacturing philosophy, Monozukuri, exemplified in our everyday pursuit of manufacturing thoughtfulness, and equally focus on all aspects of product delivery: quality, time, and service.

ADVANCING TOGETHER, FORGING THE FUTURE

At SANWA Technologies, we take great pride in our world-class manufacturing facilities that empower us to deliver highquality products to our valued customers.

With two state-of-the-art factories, strategically located in Tokyo, Japan, and Ayutthaya, Thailand, we strive for excellence through cutting-edge technology, precision engineering, and a dedicated focus on quality. Each facility serves a unique purpose, allowing us to meet the diverse needs of our global clientele.

Japan Hachioji Factory: Leading Innovation and Research

Our Hachioji factory, nestled in the western part of Tokyo, is the epitome of innovation and research. Equipped with the latest advancements in manufacturing technology, this facility drives our relentless pursuit of excellence. Our team of seasoned experts leads research and product development, ensuring that SANWA Technologies remains at the forefront of industry advancements. The factory also houses a robust QA, QC, and General Qualification Lab, where every product undergoes stringent testing to meet the highest quality standards. With a focus on low-volume and BCP production, as well as automated MT production and active device production, our Hachioji factory is a hub of progress and ingenuity.

Thailand Ayutthaya Factory: Powering High-Volume Production

Nestled in Ayutthaya, Thailand, our second manufacturing facility is a powerhouse dedicated to high-volume production. With a sharp focus on efficiency and precision, this factory houses cutting-edge equipment for high-volume injection molding and precision assembly and testing. Quality is paramount, and our dedicated QA and QC Lab ensures that each product meets our stringent quality guidelines. We also prioritize tooling maintenance and repair, guaranteeing optimal performance and precision throughout the manufacturing process. For critical processes that demand a controlled environment, our Thailand factory boasts a semi-clean room, enabling us to deliver products with unparalleled purity and accuracy.







FC HIGH SPEC PRE-ASSEMBLED															
FKL-ASSL/MDLLD			CODE		KEY		FERRU	LE I.D.			BO	0T			COLOR
		CN-FCE	Elite Connector	1	Standard	125	55 SM	: 125.5µm	1	900µ	ım Smo	oth Fi	iber Short	1	Blue
- THE		CN-FC	High Spec Connector	2	Key Ring	12	6 SM	: 126µm	2	900L	ım High	Spec	Slotted Bo	ot 2	Black
Du						12	5 SM	: 125µm	3	2.0m	nm Stan	dard	Boot	3	Green
						12	7 MN	1: 127µm	4	2.0m	ım High	Spec	FC/ST Boo	ot 4	Beige
						23	0 MN	1: 230µm	5	2.0m	ım Smo	oth S	hort Boot	5	Aqua
						14	4 MN	1: 144µm	6	2.4m	ım Smo	oth S	hort Boot	6	Red
									7	3.0m	ım Smo	oth S	hort Boot	7	Yellow
									8	3.0m	ım Stan	dard	Boot	8	White
									9	3.0m	nm High	Spec	: FC/ST Boo	ot	
FC HIGH SPEC															
APC															
PRE-ASSEMBLED			CODE				ERRULE				POLISH			BOOT	
		CN-FCASE		1	Standard	1255	-	25.5µm		No An	•		900µm Sm		
THE		CN-FCACE		2	Key Ring	126	-	26µm	2	8° Pre	e-Angle				Slotted Boot
Ma		CN-FCAS	Step Ferrule			125	SM: 1	25µm					2.0mm Sta		
		CN-FCAC	Conical Ferrule									\vdash		· ·	FC/ST Boot
SV -													2.0mm Sm 2.4mm Sm		
Car													2.4mm Sn 3.0mm Sr		
													3.0mm Sta		
															FC/ST Boot
												9	0.0000000	Jii Opec	10/31 0001
FC SIMPLEX			0005								DOOT			_	
CONNECTOR	•••••		CODE		KEY	. Kay		RRULE I.D.	F	_	BOOT	_	COLOR BL Blue		
PRE-ASSEMBLED		SFC-PHPF	R FC Simplex Connecto	-	N Narrow W Wide K	-	1255S 127M	SM: 125. MM: 127		09 20	900un 2.0mn		BL Blue BK Black		
- MAL						-	255AP	-			3.0mn		GR Green		
Du							ZJJAF	AF 0. 123	.Jum	1 30	3.000		an areen		
FC PM															
CONNECTOR PRE-ASSEMBLED	_	CODE	TYPE		KEY W	IDTH		FERRULE	EI.D.		BO	OT TY	PE BOC	T COLO)R
	•••••	SFC-PHPF	R FC PM Connector			ow Key	125			ōum	09P			Blue	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						e Key	125		125.	.5um	20P	-		Black	
											30P	3.0	Omm GR	Green	
	SANIV	VA Tacha	ologies, Inc.	14444	w.sanwa-te	ch com		sales@snv	vtoch	com					
	JAINV	vA lecili	ologies, inc.	ww	w.sunwa-te	cn.com		sales@snv	viech	.com					

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SEOLUEZZOU UL

#### Datacom & Telecom Connections

CODE

CODE

CN-STS Standard

ADAPTER TYPE SLEEVE				KEY WIDTH		
AD-FC2P	Standard Body - MM/SM	1	Zirconia Straight Split	1	For PC Connector 2.15 +0.05/-0	
AD-FC1P	Solid Body - MM/SM	2	Phosphor Bronze	2	For APC Connector 2.05 +/-0.02	

						_	
A	DAPTER TYPE		SLEEVE		KEY WIDTH		
AD-FCRD	FC Adapter "D"	1	1 Zirconia Straight Split		For PC Connector 2.15 +0.05/-0		
AD-FCRDD	FC Adapter "DD"	2	Phosphor Bronze	2	For APC Connector 2.05 +/- 0.02		
ADAPTER TYPE			SLEEVE		KEY WIDTH	]	
AD-FCOV	FC Oval Adapter "HD"	1	Zirconia Straight Split	1	For PC Connector 2.15 +0.05/-0		
		2	Phosphor Bronze	2	For APC Connector 2.05 +/- 0.02		

FERRULE I.D.

FERRULE I.D.

MM: 127µm

1255 SM: 125.5µm

127



BOOT COLOR

BOOT COLOR

Beige

Yellow

White

1 Blue

2 Black

4

6 Red

7

8



ST HIGH SPEC PRE-ASSEMBLED



CN-ST	Elite ST-2 type	125	SM: 125µm	1	900µm Smooth Fiber Short	1	Blue
CN-ST	High Spec ST-2 type	1255	SM: 125.5µm	2	900µm High Spec Slotted Boot	2	Black
		126	SM: 126µm	3	2.0mm Standard Boot	3	Green
		127	MM: 127µm	4	2.0mm High Spec FC/ST Boot	4	Beige
		144	MM: 144µm	5	2.0mm Smooth Short Boot	6	Red
		230	MM: 230µm	6	2.4mm Smooth Short Boot	7	Yellow
				7	3.0mm Smooth Short Boot	8	White
				8	3.0mm Standard Boot		
				9	3.0mm High Spec FC/ST Boot		
						-	

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BOOT

BOOT

900µm Smooth Fiber Short

2.0mm Standard Boot

3.0mm Standard Boot

ST STANDARD



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	CODE	C	OLOR		SLEEVE	
AD-STSX	Simplex Metal Housing	1	Blue	1	Zirconia Straight Split	
AD-STDX	Duplex Horizontal Metal Housing	4	Beige	2	Phosphor Bronze	
AD-STDXP	Duplex Horizontal Plastic Housing					

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	DIN HIGH SPEC PRE-ASSEMBLED			CODE		FERRUL	E I.D.		BOOT TYPE	BOO	T COLOR
		•••••	CN-DIN	DIN Connector PC	125	SM: 12		1	900um Smooth Fiber Short Boot	1	Blue
	~		CN-DINA	DIN Connector APC	1255	SM: 12	2.5µm	3	2.0mm Standard Boot	2	Black
Z	- MAR				126	SM: 12	26µm	8	3.0mm Standard Boot	3	Green
	1112				127	MM: 1	27µm			4	Beige
										6	Red
	2									7	Yellow
0										8	White
	DIN ADAPTER	_		CODE			SLE	EVE			
			AD-DIN	Din Adapter		1	Zirconia Stra	ight S	Split		
	T					2	Phosphor Br	onze			

D4 CONNECTOR		CODE		FERRULE I.D.		BOOT TYPE	B00	T COLOR
	CN-D4	D4 Crimp Style	125	SM: 125µm	1	900um Smooth Fiber Short Boot	1	Blue
			126	SM: 126µm	3	2.0mm Standard Boot	2	Black
					8	3.0mm Standard Boot	3	Green
							4	Beige
							5	Aqua
							6	Red
							7	Yellow

D4 ADAPTER		CODE		SLEEVE
	AD-D4	D4 Adapter	2	Phosphor Bronze Split

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	CODE		FERRULE I.D.	BOOT TYPE				T COLOR	
CN-SMA	SMA with Hex Nut	127	MM: 127µm	8	3.0mm Standard Boot		1	Blue	1
		144	MM: 144µm				2	Black	
		230	MM: 230µm				3	Green	
		240	MM: 240µm			[	4	Beige	
		245	MM: 245µm				6	Red	
		250	MM: 250µm				7	Yellow	
		360	MM: 360µm				8	White	
		460	MM: 460µm				Х	Custom	

SMA ADAPTER



	CODE		SLEEVE	
AD-SMA	SMA Adapter	1	Zirconia	
		2	Phosphor Bronze	



	/	
V		

Г									-
		FERRULE	INNER DIAMETER		FERRULE		FLANGE		
	F-SMA-M	SMA Connectors Multimode	127	127µm	1	Zirconia	NF	No Flange	
			144	144µm	2	Metal			
			230	230µm			-		
			245	245µm					
			440	440µm					
			720	720µm	]				

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n	ATTENUATORS			CO	DE			TYPE	CONI	VECTOR TYPE	ATT	ENUATION LEVEL
			AT I	Doped Fi	iber Atte	nuators	1	Standard	FCA	FC APC	01	1dB
		_					2	Special	FC	FC UPC	03	3dB
	Sold States						S	Specify	STA	ST APC	04	4dB
RS S	AV S								ST	ST UPC	05	5dB
<u> </u>		D							07	7dB		
IATORS	2										08	8dB
	- •										09	9dB
TERMINATORS	TERMINATORS	_ [	PROD	UCT	CON	INECTOR	TYP	Έ			10	10dB
& ⊥			TN		FCA	FC APC					12	12dB
					FC	FC UPC					15	15dB
					STA	ST APC					20	20dB
					ST	ST UPC					25	25dB
6	ar a	9									30	30dB



CODE/ADAPTER TYPE			r (plastic)	SLEEVE		
ADH-SCST-RT-M Simplex Metal, Rectangular Flange		1	Blue	1	Zirconia	
ADH-SCSTDX-M Duplex Metal, Rectangular Flange		4	Beige	2	Phosphor Bronze	
ADH-SCSTDX-P Duplex Plastic, Blue, Rectangular Flange						
ADH-SCSTDX-P Duplex Plastic, Beige, Rectangular Flange						

SC-FC HYBRID ADAPTER

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CODE/ADAPTER TYPE			KEY WIDTH	SLEEVE		
ADH-SCFC-SQ	Square Flange	1	For PC Connector: 2.15+0.05/-0	1	Zirconia	
ADH-SCFC-RT	Rectangular Flange	2	For APC Connector: 2.05 +/- 0.02	2	Phosphor Bronze	



HYBRID ADAPTER



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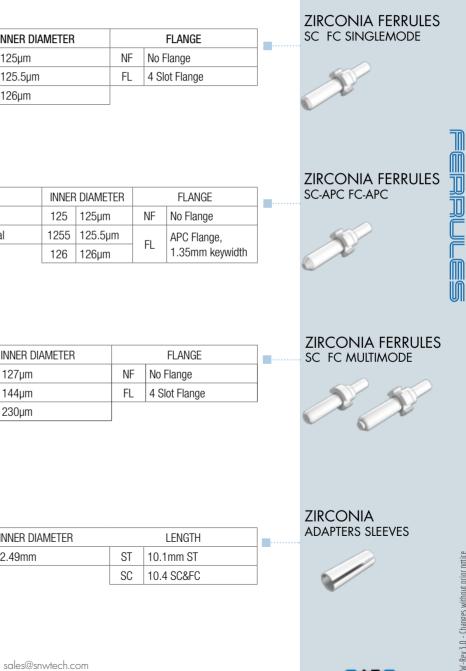
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CODE/AI	DAPTER TYPE		SLEEVE		ST-FC HYBRID ADAPTER
ADH-STFC-SQ	Square Flange	1	Zirconia	·····	
ADH-STFC-RT	Rectangular Flange	2	Phosphor Bronze		





FERRULE			INNER DIAMETER			
F-SC-S	SC & FC Connectors Singlemode	125	125µm	NF	No Flange	
		1255	125.5µm	FL	4 Slot Flange	
		126	126µm			

FERRULE		ENDFACE		INNEF	INNER DIAMETER		FLANGE	
F	SC & FC Connectors	SCAS APC Step		125	125µm	NF	No Flange	]
I		SCAC	APC Conical	1255	125.5µm	г	APC Flange,	]
				126	126µm		1.35mm keywidth	

	FERRULE			INNER DIAMETER		]	
F-S	C-M	SC & FC Connectors Multimode	127	127µm	NF	No Flange	]
			144	144µm	FL	4 Slot Flange	
			230	230µm			

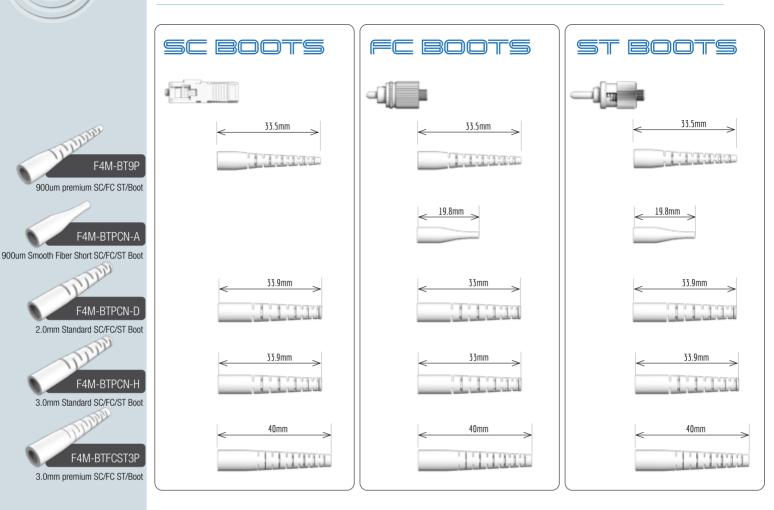
	SLEEVE I		SLEEVE INNER DIAMETER LENGTH				LENGTH	/
S-ZR	Zirconia Sleeve	250	2.49mm	ST	10.1mm ST			
				SC	10.4 SC&FC			

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	STANDARD BOOTS					
BOOT CODE	DESCRIPTION					
SC / FC / ST BOOTS						
F4M-BTPCN-A	900um Smooth Fiber Short SC/FC/ST Boot					
F4M-BTPCN-D	2.0mm Standard SC/FC/ST Boot					
F4M-BT2S	2.0mm Smooth Short SC/FC/ST Boot					
F4M-BT24S	2.4mm Smooth Short SC/FC/ST Boot					
F4M-BT3S	3.0mm Smooth Short SC/FC/ST Boot					
F4M-BTPCN-H	3.0mm Standard SC/FC/ST Boot					
F4M-BTFCST3P 3.0mm High Spec SC/FC/ST Boot						

CRIMP RING, PREMIUM SC/FC/ST		
F4M-CR12-P	1.2mm	
F4M-CR16-P	1.6mm	
F4M-CR2-P	2.0mm	
F4M-CR24-P	2.4mm	
F4M-CR3-P	3.0mm	

1.6mm Option: SANWA TECH Offers a 1.6mm Crimp Ring that is compatible with all 2.0mm boots listed above.

#### BOOT COLOR

1	Blue
2	Black
3	Green
4	Beige
5	Aqua
6	Red
7	Yellow
8	White
0	Gray



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### NOTE

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	TIA/EIA,IEC& GR-326-CORE	RoHS & REACH
Simplex Connectors	•	•
PM Connectors	•	•
Adapter Series	•	•
Attenuators	GR-910-CORE	•

SANWA offers a comprehensive range of standard connectors, including FC, ST, Din, SMA, and more. These connectors are designed to meet the diverse needs of optical fiber transmission systems. All Design choice enhances productivity and provides cost-effectiveness. The connectors offer superior durability and robustness, ensuring optimal performance and longevity in various optical fiber applications.

Application

- · LAN, CATV, FA, OA general system's equipment
- · Medium and long distance optical fiber transmission lines
- Test and Measurement equipment

# OVER THE WORLD

SANWA product selection offers a wide range of high-quality and reliable solutions for various applications. Fiber optic technology is known for its ability to transmit data at incredibly fast speeds over long distances, making it ideal for telecommunica-tions, networking, and data center environments.

USA EUROPE MIDDLE EAST TAIWAN THAILAND JAPAN

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