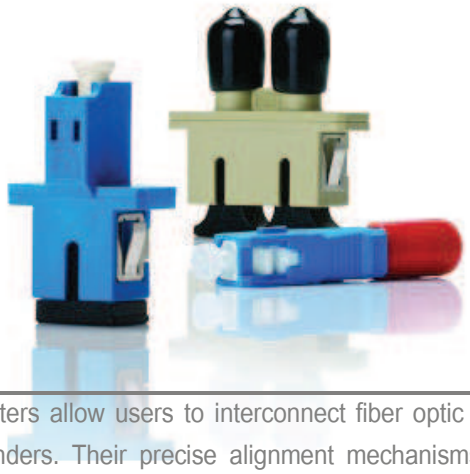
Setting the Standards

Fiber Optic Hybrid Adapter



Description	Oxin fiber optic hybrid adapters allow users to interconnect fiber optic cable assemblies featuring different interfaces' types and/or genders. Their precise alignment mechanisms provide flawless contact between connectors' end face. Mating sleeves and ferrules are manufactured with phosphorus bronze or zirconia ceramic, depending on network requirements, to uphold the level of desired performance. Zirconia ceramic sleeves are recommended for multimode OM3 and OM4 performance, and single mode OS1 or OS2. In the case of hybrid adapters with a male gender, the ferrule is made with zirconia ceramic by default.
Features and Benefits	1. Low insertion loss to minimize impact of loss budgets 2. Precise alignment for a reliable glass-to-glass contact 3. High repeatability to ensure durable multi-mating applications 4. Manufactured with high performance component materials
Applications	• Data center • Fiber-to-the-home (FTTH) • Test facilities and instruments • Central office • Cellular tower base station Telecommunications room Equipment room • Consolidation point

Certification and Compliance	GR-326-CORE	Generic Requirements for Single Mode Optical Connectors and Jumper
	ANSI/TIA-568-C.3	Optical Fiber Cabling Components Standard
	TIA-604 series	Fiber Optic Connector Intermateability Standard
	TIA-455 series	Standard Test Procedure for Fiber Optic Components
	IEC 60874-1	Connectors for Optical Fibers and Cables, Generic Standard
	IEC 61300 series	Fiber Optic Interconnecting Devices and Passive Components, Basic Test and Measurement Procedures
	UL 94	Tests for Flammability of Plastic Material for Parts in Devices and Appliances
	RoHS	Directive on Restriction of Hazardous Substances

Fiber Optic Hybrid Adapter

LC male to LC female
single mode simplex
FAH-11-LCMLCF-SP

LC male to LC female
APC single mode simplex
FAH-13-LCMLCF-SP

LC male to LC female
multimode simplex
FAH-22-LCMLCF-SP

LC female to SC female
single mode simplex
FAH-11-LCFSCF-SP

LC female to SC female
APC single mode simplex
FAH-13-LCFSCF-SP

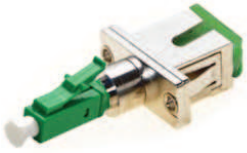
LC female to SC female
multimode simplex
FAH-22-LCFSCF-SP

LC female to SC male
single mode simplex
FAH-11-LCFSCM-SP

LC female to SC male
APC single mode simplex
FAH-13-LCFSCM-SP

LC female to SC male
multimode simplex
FAH-22-LCFSCM-SP

LC male to SC female
single mode simplex
FAH-11-LCMSCF-SM



LC male to SC female
APC single mode simplex
FAH-13-LCMSCF-SM

LC male to SC female
multimode simplex
FAH-22-LCMSCF-SM

SC male to SC female
single mode simplex
FAH-11-SCMSCF-SM

SC male to SC female
APC single mode simplex
FAH-13-SCMSCF-SM

SC male to SC female
multimode simplex
FAH-22-SCMSCF-SM

ST female to FC male
single mode simplex
FAH-11-STFFCM-SM

ST male to FC female
single mode simplex
FAH-11-STMFCF-SM

ST female to FC female
single mode simplex
FAH-11-STFFCF-SM

ST male to ST female
single mode simplex
FAH-11-STMSTF-SM

Fiber Optic Hybrid Adapter

ST male to ST female
single mode simplex
FAH-11-STMSTF-SM

ST male to ST female
multimode simplex
FAH-22-STMSTF-SM

SC female to ST male
single mode simplex
FAH-11-STMSCF-SM

SC female to ST male
multimode simplex
FAH-22-STMSCF-SM

SC male to ST female
single mode simplex
FAH-11-SCMSTF-SP

SC male to ST female
multimode simplex
FAH-22-SCMSTF-SP

SC female to ST female
single mode simplex
FAH-11-SCFSTF-SP

SC female to ST female
multimode simplex
FAH-22-SCFSTF-SP

SC female to ST female
single mode duplex
FAH-11-SCFSTF-DP

SC female to ST female
multimode duplex
FAH-22-SCFSTF-DP

FC male to FC female
single mode simplex
FAH-11-FCMFCF-SM

FC male to FC female
multimode simplex
FAH-22-FCMFCF-SM

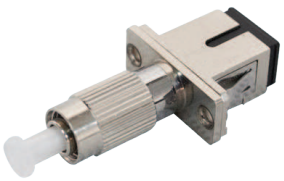
SC female to FC female
single mode simplex
FAH-11-SCFFCF-SM

SC female to FC female
multimode simplex
FAH-22-SCFFCF-SM

SC male to FC female
single mode simplex
FAH-11-SCMFCF-SP

SC male to FC female
multimode simplex
FAH-22-SCMFCF-SP

SC female to FC male
single mode simplex
FAH-11-SCFFCM-SM



SC female to FC male
multimode simplex
FAH-22-SCFFCM-SM

LC male to FC female
single mode simplex
FAH-11-LCMFCF-SM

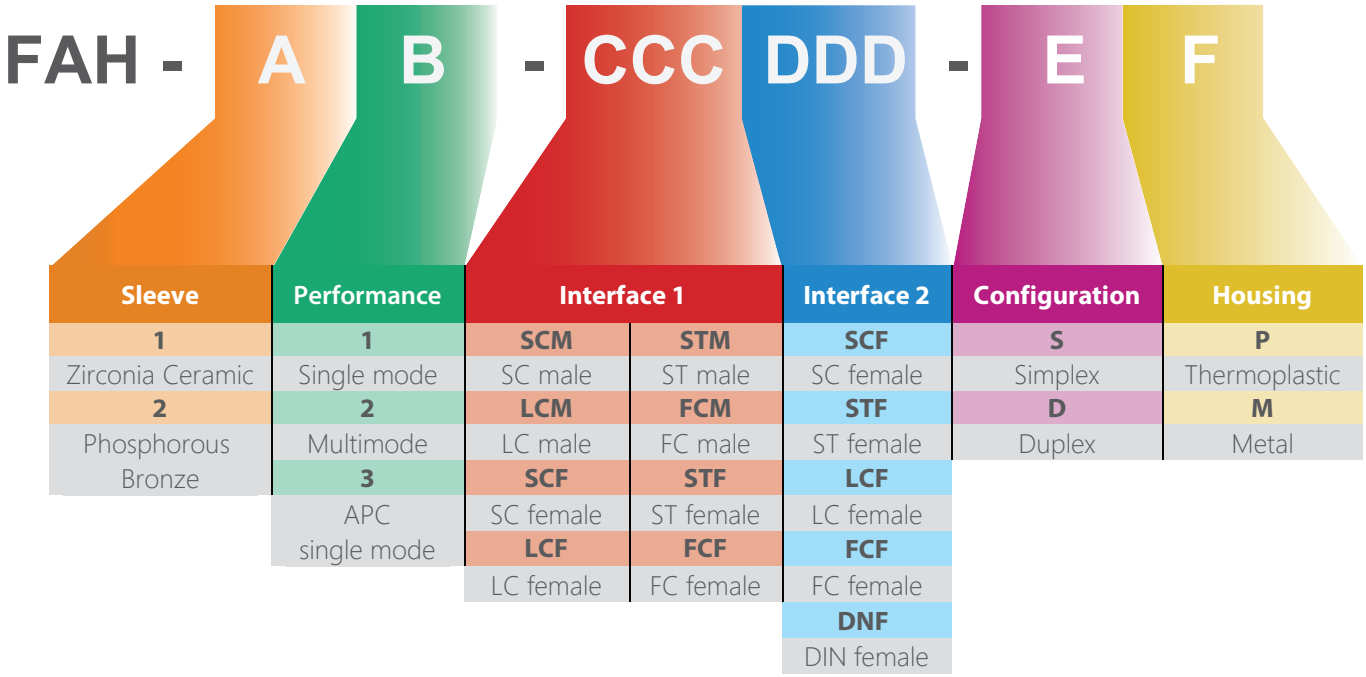
LC male to FC female
multimode simplex
FAH-22-LCMFCF-SM

LC female to FC male
single mode simplex
FAH-11-LCFFCM-SM

LC female to FC male
multimode simplex
FAH-22-LCFFCM-SM

Fiber Optic Hybrid Adapter

Fiber Optic Hybrid Adapter
Part Number Builder



Ordering Information	**Description**			**Part Number**		
	Fiber Optic Hybrid Adapter			OXIN-FAH-XX-XXXXXX-XX		
Packaging	**Description**					
	20 or 25 pcs/lot					
Optical Performance	**Parameter**	**SM UPC**	**SM APC**	**OM1**	**OM2**	**OM3**
	Insertion Loss	≤ 0.3 dB	≤ 0.3 dB	≤ 0.3 dB	≤ 0.3 dB	≤ 0.3 dB
	Return Loss	≤-55 dB	≤-65 dB	N.A	N.A	N.A
Physical Characteristics	**Parameter**		**Value**			
	Fiber count capacity		Simplex (1 fiber), duplex (2 fibers)			
	Plastic material		UL 94V-0 ABS high-impact thermoplastic			
Mechanical Characteristics	**Parameter**		**Value**			
	Operating temperature		-40 ~ +75°C			
	Storage temperature		-40 ~ +85°C			
	Temperature cycling		-40 ~ +75°C , 40 cycles = 0.2 dB change			
	High temperature		70°C for 96 hours = <0.4 dB change			
	Mating durability		500 mating cycles (cleaning every 25 matings) = <0.2dB change			
	Damp heat		40°C at %93 RH for 96 hours = <0.4 dB change			

Setting the Standards

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