

SC OPTICAL ADAPTER

REFERENCE VALUES - PENDING KANGHAO ENGINEERING CONFIRMATION

Engineering comparison data; final product ratings require a confirmed Kanghao specification.

Optical, mechanical and material reference

Parameter	SM UPC	SM APC	MM UPC
Insertion loss (dB)	<0.2	<0.2	<0.2
Loss after 500 matings (dB)	<0.2	<0.2	<0.2
Operating temperature (deg C)	-40 to +80	-40 to +80	-40 to +80
Retention force (N)	200-600	200-600	200-600
Housing	PBT UL 94*	PBT UL 94*	PBT UL 94*
Mounting	Clip / screws	Clip / screws	Clip / screws
Alignment sleeve	Ceramic Grade A	Ceramic Grade A	Ceramic Grade A
Clip / dust cover	Stainless / PP	Stainless / PP	Stainless / PP
Color	Blue	Green	OM1/2 gray; OM3 aqua; OM4 purple; OM5 lime green

Material note

The reference states PBT UL 94 without a complete flammability subclass. No missing class is inferred.

Configuration reference - all listed options

Format	Category / polish	Mounting / cover
Simplex	OS2 UPC; OM2/3/4/5	Flanged snap-in
Simplex	OS2 APC	Flanged snap-in; covered; covered without flange
Duplex	OS2 UPC	Flanged or unflanged snap-in
Duplex	OM2/3/4/5 UPC	Flanged snap-in
Duplex	OS2 APC	Flanged snap-in; covered; unflanged snap-in

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Format	Category / polish	Mounting / cover
Packing	All listed configurations	12 units

Mechanical dimension callouts - mm

Configuration	Reference dimension callouts
SC simplex, flange	27.4 +/-0.2; 12.8 +/-0.2; 3.2; 22 +/-0.2; 18 +/-0.2; 2-M2; 9.3 +/-0.1
SC/APC simplex, cover, unflanged snap-in	27.4 +/-0.2; 12.8 +/-0.2; 3.2; 14.8 +/-0.2; 9.3 +/-0.1
SC duplex, flange	27.4 +/-0.2; 25.8 +0.1/-0.2; 3.2; 2-M2; 12.7 +/-0.05; 30.7 +/-0.2; 34.7 +/-0.2; 9.3 +/-0.1
SC/APC duplex, unflanged snap-in	27.4 +/-0.2; 25.8 +0.1/-0.2; 3.2; 12.7 +/-0.05; 27.5 +/-0.2; 9.3 +/-0.1
SC/APC duplex with cover	No numeric dimensions shown in the reference view
SC/APC simplex, cover, unflanged	27.4 +/-0.2; 12.8 +/-0.2; 3; 14.8 +/-0.2

Dimensional use

Callouts are retained as numeric reference data. Their mating geometry is not a released Kanghao manufacturing drawing. Confirm the complete interface before machining or procurement.

Standards and application context

Reference standards: ISO/IEC 11801; EN 50173-1; IEC 61754-20; IEC 61753-1; IEC 61300; RoHS. Application context: FTTx, passive optical and CATV networks. Compliance and fit remain subject to validation.