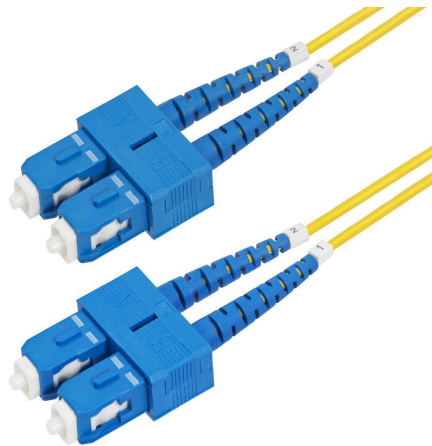# SC-SC (UPC) OS2 SINGLE MODE DUPLEX FIBRE OPTIC CABLE

PART NO.: KB-SCSC-SM0xx

DESCRIPTION: OS2 SC-SC Duplex Single-Mode Fibre Patch Cord, LSZH

The KAYBE SC-SC (UPC) OS2 Single Mode Duplex Fibre Optic Cable delivers dependable high-speed connectivity for 100G networks, supporting CWDM over the extended 1260–1625 nm wavelength range to maintain excellent signal integrity across long distances. Manufactured with 9/125 µm single-mode fibre, it is laser-optimized for data centers and enterprise networks while remaining backward compatible with OS1 infrastructure. Precision ceramic ferrules ensure accurate fibre alignment with insertion loss below 0.3 dB, and UPC-polished SC connectors provide improved return loss for stable transmission. The bend-insensitive fibre design minimizes attenuation in tight routing scenarios and exceeds ITU-T G652.D/G657.A1 and IEC industry standards. Encased in a Low Smoke Zero Halogen (LSZH) flame-retardant jacket, the cable emits minimal smoke and toxic fumes, making it suitable for safe installation in data centers, industrial facilities, transport systems, and residential environments.

KEY FEATURES

1. **Superior Build Quality:** SC-SC connectors with UPC polishing deliver improved return loss compared to traditional PC polish.
2. **Safe & Reliable Performance:** Individually tested for consistent performance; LSZH jacket minimizes toxic fumes in case of fire.
3. **Broad Network Compatibility:** Single-mode fibre patch cord supports 100G networks, is backward compatible with OS1, and offers high micro-bend resistance for tight routing in complex data center installations.
4. **Enhanced Fire Safety:** Low Smoke Zero Halogen (LSZH) fire-retardant cable jacket.

CONSTRUCTION DATA SHEET

ADAPTERS SUPPORTED	Connector A 1 - Fibre Optic SC Duplex Connector B 1 - Fibre Optic SC Duplex
PRODUCT SPECIFICATIONS	
1-PLUG	Blue
2-BOOT	Blue
3-CABLE	OS2 Yellow
Insertion Loss(dB)	≤0.2dB
Cable diameter	2.0mm
Cable type	LSZH
Ferrule Interface type	PC
Mode	9/125

ENVIRONMENTAL CHARACTERISTICS

Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C

ORDERING INFORMATION AS PER FOLLOWS

PART NO	PRODUCT DESCRIPTION	LENGTH
KB-SCSC-SM010	SC-SC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	1.0m
KB-SCSC-SM030	SC-SC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	3m
KB-SCSC-SM050	SC-SC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	5m
KB-SCSC-SM100	SC-SC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	10m
KB-SCSC-SM200	SC-SC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	20m
KB-SCSC-SM300	SC-SC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	30m
KB-SCSC-SM500	SC-SC (UPC) OS2 Single Mode Duplex Fibre Optic Cable	50m

OTHER PRODUCTS INCLUDE

LC-SC (UPC) OS2 SINGLE MODE DUPLEX FIBRE OPTIC CABLE	LC-LC (UPC) OS2 SINGLE MODE DUPLEX FIBRE OPTIC CABLE	LC-LC (UPC) OM4 MULTI MODE DUPLEX FIBRE OPTIC CABLE	LC-SC (UPC) OM4 MULTI MODE DUPLEX FIBRE OPTIC CABLE
SC-SC (UPC) OM4 MULTI MODE DUPLEX FIBRE OPTIC CABLE	LC-LC (UPC) OM5 MULTI MODE DUPLEX FIBRE OPTIC CABLE	LC-SC (UPC) OM5 MULTI MODE DUPLEX FIBRE OPTIC CABLE	