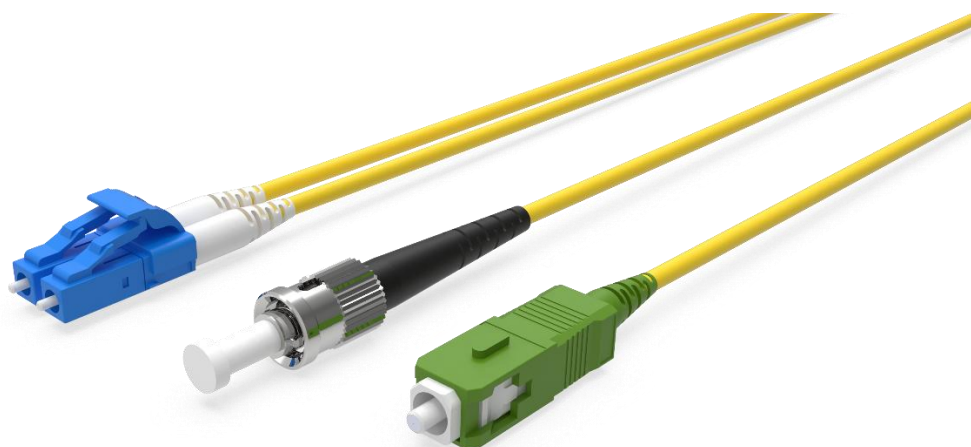


MASTER REFERENCE PATCH CORD



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NEXCONEC® Master Reference are ideal for high precision and high-performance optical test applications. The test leads are terminated with the highest quality physical contact (Single mode) zirconia ferrule connectors. The connectors are manufactured with precision mounting and polishing techniques which ensure excellent mating characteristics and optimised optical performance.

FEATURES

- ✓ Optimized geometry of fiber, cable and connector providing reduced installation time and cost through improved accuracy and reliability of measurement
- ✓ Conforms to IEC, EIA-TIA or Telcordia performance requirements
- ✓ Single mode and multimode optical fibers
- ✓ End face geometry, concentricity and IL / RL test report provided
- ✓ REACH and RoHS Compliant

APPLICATIONS

- ✓ Optical network testing
- ✓ Testing Labs
- ✓ Critical Telecom & Industrial network

SPECIFICATIONS

Parameters	Single mode	Multimode	Conformance
IL MAX/ Master (Acceptance)	≤ 0.10 dB	≤ 0.10 dB	IEC 61300-3-4
MAX IL/Random 97%	≤ 0.20 dB	≤ 0.25 dB	IEC 61300-3-34
Ave/Master*	≤ 0.08 dB	≤ 0.08 dB	IEC 61300-3-4
Return Loss	55/70dB	-	IEC 61300-3-6
Apex Offset	50 μ m Max	50 μ m Max	
Radius of curvature (ST, SC,FC)	10mm Min / 20mm Max		
Radius of curvature (LC)	7mm Min /20mm Max		
Mechanical endurance	1000 mating		IEC 61300-2-2

FIBER SPECIFICATION SINGLE MODE (G.657A1)

Cladding Diameter	125 $\pm$ 0.7 μ m		
Core/Cladding Concentricity Error	≤ 0.5 μ m		
Cladding Non-Circularity	≤ 0.7 %		

FIBER SPECIFICATION MULTIMODE

Cladding Diameter	125 $\pm$ 1.0 μ m	125 $\pm$ 1.0 μ m	
Core Diameter	62.5 $\pm$ 2.5 μ m OM1	50 $\pm$ 2.5 μ m OM3/4	
Core/Cladding Concentricity Error	≤ 1.5 μ m	≤ 1.0 μ m	
Cladding Non-Circularity	≤ 1.0 %	≤ 0.6 %	
Numerical Aperture	0.275 $\pm$ 0.015 OM1	0.2 $\pm$ 0.015 OM3/4	

CABLE CHARACTERISTICS

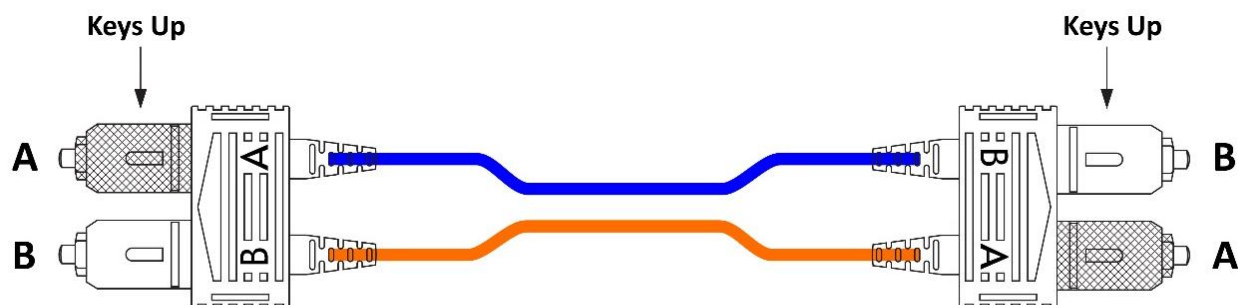
Cable Characteristics	Units	Simplex	Duplex
Cable Material		LSZH PVC	LSZH or PVC
Strength Member		Aramid	Aramid
Crush	N	1000	1000
Operating Temperature	°C	-20 ~+70	-20 ~+70
Secondary Buffer Diameter (2mm and 3mm)	μm	900±50	900±50
Minimum Bending Radius	mm	10D (installed) 20D (loaded)	10D (installed) 20D (loaded)

ORDER INFORMATION

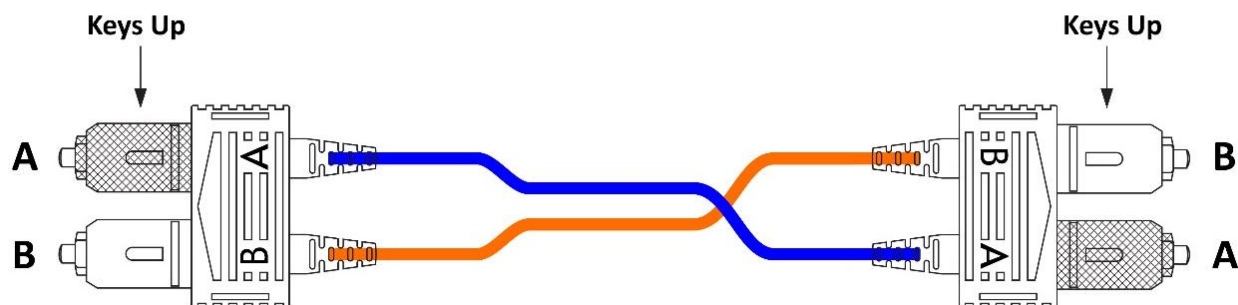
APM	1	2	3	4	5	6	7	DIST
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1	2	CONNECTOR	3		4	FIBER	5	JACKET DIAMETER	6	JACKET COLOR	7	JACKET MATERIAL
S1	S1	SC	S	SIMPLEX	D2	G652D	3	3MM	Y	YELLOW	L	LSZH
S2	S2	SCA	D	DUPLEX	A1	G657A1			Q	AQUA		
L1	L1	LC			O1	OM1			V	ER VIOLET		
L2	L2	LCA			O2	OM2			O	ORANGE		
F1	F1	FC			O3	OM3			L	BLUE		
F2	F2	FCA			O4	OM4			G	GREY		
T1	T1	ST			O5	OM5			W	WHITE		
									LG	LIME GREEN		

POLARITY SCHEME



CROSSOVER POLARITY 'A' to 'B' (*Nexconec Standard*)



STRAIGHT-THROUGH POLARITY 'A' to 'A' (*On Request*)