

AchieVe™ Fiber Optic Patch Cables

Features

- Metal-free indoor cable
- Completely dry design
- High flexibility and light weight
- Halogen-free and non-corrosive combustion gases
- Low fire load for high safety requirements
- Jacket material complies with UL 94V-0

RoHS



RoHS Compliant



Fiber Optic Patch Cables							
Part Number	Description	Color	Connectors	Length	Price		
FOM-OM1-LCLC-001	AchieVe OM1 multi-mode fiber optic Ethernet patch cable	Orange	LC duplex to LC duplex	3.2' [1m]	\$7.25		
FOM-OM1-LCLC-003				9.8' [3m]	\$8.00		
FOM-OM1-LCLC-005				16.4' [5m]	\$9.50		
FOM-OM1-LCLC-010				32.8' [10m]	\$15.00		
FOM-OM1-LCST-001			LC duplex to ST duplex	3.2' [1m]	\$7.50		
FOM-OM1-LCST-003				9.8' [3m]	\$8.25		
FOM-OM1-LCST-005				16.4' [5m]	\$9.00		
FOM-OM1-LCST-010				32.8' [10m]	\$15.00		
FOM-OM1-SCLC-001			SC duplex to LC duplex	3.2' [1m]	\$7.25		
FOM-OM1-SCLC-003				9.8' [3m]	\$8.00		
FOM-OM1-SCLC-005				16.4' [5m]	\$9.50		
FOM-OM1-SCLC-010				32.8' [10m]	\$15.00		
FOM-OM1-SCSC-001			SC duplex to SC duplex	3.2' [1m]	\$7.25		
FOM-OM1-SCSC-003				9.8' [3m]	\$8.00		
FOM-OM1-STST-001			ST duplex to ST duplex	3.2' [1m]	\$9.25		
FOM-OM1-STST-003				9.8' [3m]	\$12.50		
FOM-OM2-SCLC-001			AchieVe OM2 multi-mode fiber optic Ethernet patch cable		SC duplex to LC duplex	3.2' [1m]	\$7.25
FOM-OM2-SCLC-003						9.8' [3m]	\$8.00
FOM-OM2-SCLC-005						16.4' [5m]	\$9.25
FOM-OM2-SCLC-010						32.8' [10m]	\$12.50
FOM-OM3-LCLC-001	AchieVe OM3 multi-mode fiber optic Ethernet patch cable	Aqua	LC duplex to LC duplex	3.2' [1m]	\$8.00		
FOM-OM3-LCLC-003				9.8' [3m]	\$9.25		
FOM-OM3-LCLC-005				16.4' [5m]	\$10.00		
FOM-OM3-LCLC-010				32.8' [10m]	\$15.00		
FOM-OM4-LCLC-001	AchieVe OM4 multi-mode fiber optic Ethernet patch cable	Violet	LC duplex to LC duplex	3.2' [1m]	\$9.75		
FOM-OM4-LCLC-003				9.8' [3m]	\$15.00		
FOM-OM4-LCLC-005				16.4' [5m]	\$18.00		
FOM-OM4-LCLC-010				32.8' [10m]	\$21.00		

Achieve™ Fiber Optic Patch Cables



LC Connector



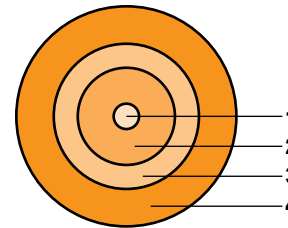
ST Connector



SC Connector

Optical Characteristics and Physical Properties					
Fiber Type		OM1	OM2	OM3	OM4
Jacket Color		Orange	Orange	Aqua	Violet
Core Diameter (µm)		62.5 ±2.5	50 ±2.5		
Cladding Diameter (µm)		125 ±5.0			
Primary Coating Diameter (µm)		245 ±10			
Attenuation (max. in cable) (dB/km)	@850nm	≤ 3.4	≤ 3.0		
	@1300nm	≤ 1.0			
Bandwidth (overfilled) (MHz*km)	@850nm	200	500	1500	3500
	@1300nm	500			
Serial Ethernet 1 Gigabit (meters)	@850nm	-	-	1000	1040
	@1300nm	-	-	600	600
Serial Ethernet 10 Gigabit (meters)	@850nm	-	-	300	550
	@1300nm	-	-	300	300

Cable Construction		
1	Fiber	250µm multimode
2	Semi-tight Buffer Tube	900µm LSZH
3	Strength Member	Aramid yarn
4	Outer Jacket	LSZH



Cable Mechanical and Environmental Properties		
Type	2 cores duplex fiber optic cable	
Cable Outer Diameter	2.0 x 4.1 mm	
Jacket Material	low smoke zero halogen (LSZH), UL94 V-0 compliant	
Minimum Bending Radius	During Installation	50mm (IEC 60794-1-2 E11)
	In Service	25mm (IEC 60794-1-2 E11)
Crush Resistance	Short Term	4000 N/dm (IEC 60794-1-2 E3)
	Long Term	1000 N/dm (IEC 60794-1-2 E3)
Impact Resistance	Wp=0.74J	40 impact (IEC 60794-1-2 E4)
	Wp=1J	20 impact (IEC 60794-1-2 E4)
Repeated Bending	r=25mm w=0.5 kg	5000 cycles (IEC 60794-1-2 E6)
Length Tolerance	±50mm	
Max. Tensile Strength	300N	
Temperature Range	In Service	-13°F to +158°F [-25°C to +70°C]
	In Storage	-40°F to +158°F [-40°C to +70°C]
Fire Load	0.22 MJ/m	

Connector Specifications	
LC Connector Compliance	IEC 61754-20, TIA 604-10-A, RoHS
SC Connector Compliance	IEC 61754-4, TIA 604-3, RoHS
ST Connector Compliance	IEC 61754-2, TIA 604-2, RoHS
Alignment Technology	Full ceramic ferrule (Zirconia ZrO ₂)
Operating Temperature	-40°F to +185°F [-40°C to +85°C]
Flammability	UL94 V-0 compliant
Durability	<0.1 dB typical change for >500 matings

Optical Performance	
Insertion Loss (Multi-mode)	≤ 0.30 dB Max., 0.15 dB Typ. IEC 61300-3-4 Method B
Return Loss (Multi-mode)	≥35dB IEC 61300-3-6 Method B

End-face Control Parameters	
Geometry Inspection	IEC 61755-3-1
Visual Inspection	IEC 61300-3-35