

# AchieVe™ Fiber Optic Patch Cables

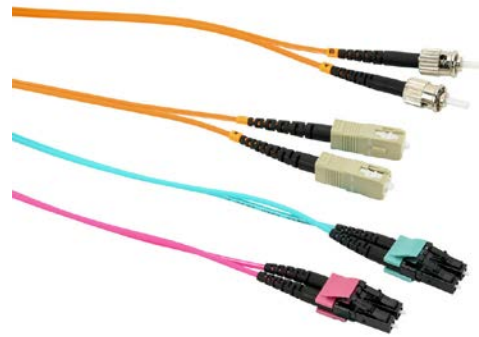
## Features

- 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		
<a href="#">FOM-OM1-LCLC-001</a>	AchieVe OM1 multi-mode fiber optic Ethernet patch cable	Orange	LC duplex to LC duplex	3.2' [1m]	\$7.25		
<a href="#">FOM-OM1-LCLC-003</a>				9.8' [3m]	\$8.00		
<a href="#">FOM-OM1-LCLC-005</a>				16.4' [5m]	\$9.50		
<a href="#">FOM-OM1-LCLC-010</a>				32.8' [10m]	\$15.00		
<a href="#">FOM-OM1-LCST-001</a>			LC duplex to ST duplex	3.2' [1m]	\$7.50		
<a href="#">FOM-OM1-LCST-003</a>				9.8' [3m]	\$8.25		
<a href="#">FOM-OM1-LCST-005</a>				16.4' [5m]	\$9.00		
<a href="#">FOM-OM1-LCST-010</a>				32.8' [10m]	\$15.00		
<a href="#">FOM-OM1-SCLC-001</a>			SC duplex to LC duplex	3.2' [1m]	\$7.25		
<a href="#">FOM-OM1-SCLC-003</a>				9.8' [3m]	\$8.00		
<a href="#">FOM-OM1-SCLC-005</a>				16.4' [5m]	\$9.50		
<a href="#">FOM-OM1-SCLC-010</a>				32.8' [10m]	\$15.00		
<a href="#">FOM-OM1-SCSC-001</a>			SC duplex to SC duplex	3.2' [1m]	\$7.25		
<a href="#">FOM-OM1-SCSC-003</a>				9.8' [3m]	\$8.00		
<a href="#">FOM-OM1-STST-001</a>			ST duplex to ST duplex	3.2' [1m]	\$9.25		
<a href="#">FOM-OM1-STST-003</a>				9.8' [3m]	\$12.50		
<a href="#">FOM-OM2-SCLC-001</a>			AchieVe OM2 multi-mode fiber optic Ethernet patch cable		SC duplex to LC duplex	3.2' [1m]	\$7.25
<a href="#">FOM-OM2-SCLC-003</a>						9.8' [3m]	\$8.00
<a href="#">FOM-OM2-SCLC-005</a>						16.4' [5m]	\$9.25
<a href="#">FOM-OM2-SCLC-010</a>						32.8' [10m]	\$12.50
<a href="#">FOM-OM3-LCLC-001</a>	AchieVe OM3 multi-mode fiber optic Ethernet patch cable	Aqua	LC duplex to LC duplex	3.2' [1m]	\$8.00		
<a href="#">FOM-OM3-LCLC-003</a>				9.8' [3m]	\$9.25		
<a href="#">FOM-OM3-LCLC-005</a>				16.4' [5m]	\$10.00		
<a href="#">FOM-OM3-LCLC-010</a>				32.8' [10m]	\$15.00		
<a href="#">FOM-OM4-LCLC-001</a>	AchieVe OM4 multi-mode fiber optic Ethernet patch cable	Violet	LC duplex to LC duplex	3.2' [1m]	\$9.75		
<a href="#">FOM-OM4-LCLC-003</a>				9.8' [3m]	\$15.00		
<a href="#">FOM-OM4-LCLC-005</a>				16.4' [5m]	\$18.00		
<a href="#">FOM-OM4-LCLC-010</a>				32.8' [10m]	\$21.00		

# Achieve™ Fiber Optic Patch Cables



LC Connector



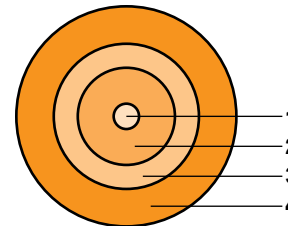
ST Connector



SC Connector

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

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



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

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

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

End-face Control Parameters	
<b>Geometry Inspection</b>	IEC 61755-3-1
<b>Visual Inspection</b>	IEC 61300-3-35