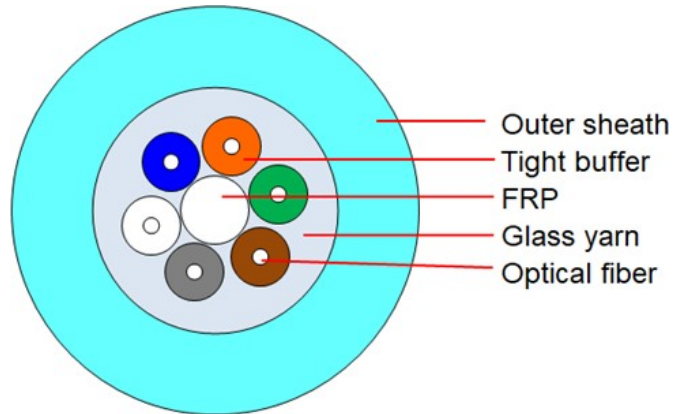


Multimode Indoor Optical Cable OM3-ID-OR-6FO-Aqua



Not to scale, color is only for showing, may be not exact same as real product color

Cable Type	Fiber Count
OM3	6/12/16/24 FO

Cable Specification

Tight buffer fibers laid up around central strength member, glass yarns as strength member, and then LSZH jacket.

Fiber color code

NO.	1
Color	Natural

Tight buffer color code

NO.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White

Optical fiber type and properties

Item	Unit	Specification	
		OM3	
Core diameter	μm	50±2.5	
Cladding diameter	μm	125.0 ± 1.0	
Cladding non-circularity	%	≤1.0	
Core/Clad concentricity error	μm	≤1.5	
Coating diameter	μm	245 ± 10	
Coating/cladding concentricity error	μm	≤12	
OFL Bandwidth	850nm	MHz·km	≥ 1500
	1300nm	MHz·km	≥ 500
EMB Bandwidth	850nm	MHz·km	≥ 2000
Attenuation Coefficient	850nm	dB/km	≤ 3.5
	1300nm	dB/km	≤ 1.5
Proof stress level	kpsi	≥100	

Cable structure and parameter

Item	Contents	Unit	Value			
			6	12	16	24
Optical Fiber	/	/	6	12	16	24
Tight buffer fiber	Diameter	mm	0.9±0.05			
	Material	/	LSZH			
Central strength member	Material	/	FRP with cushion when necessary			
Strength member	Material	/	Glass yarns			
Outer jacket	Diameter	mm	5.3±0.5	7.2±0.5	7.3±0.5	8.2±0.5
	Material	/	LSZH			
	Color	/	Aqua			
Tensile performance	Installation	N	700			
	Operation	N	200			
Crush	Short term	N/100mm	1000			
Cable attenuation		dB/km	≦ 1.5 at 1300nm, ≦ 3.5 at 850nm			
Cable weight (Approx.)		kg/km	33	59	58	73

Characteristic of Optical Cable

1 Min. bending radius

Static: 55 mm

Dynamic: 85 mm

2 Application temperature range

Operation: - 20°C ~ +70°C

Installation: -10°C ~ +50°C

Storage/transportation: - 20°C ~ +70°C

Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-21-E1	- Load: Short term tension - Length of cable: ≥ 50m - Load time: 1min	- Loss change ≤ 0.3dB@1300nm after test. - No fiber break and no sheath damage.
	- Load: Long term tension - Length of cable: ≥ 50m - Load time: 1min	- Loss change ≤ 0.3dB@1300nm during test. - No fiber break and no sheath damage.
Crush Test IEC 60794-1-21-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.3dB@1300nm after test. - No fiber break and no sheath damage.
Impact Test IEC 60794-1-21-E4	- Points of impact: 10 - Times of per point: 1 - Impact energy: 3J - Radius: 300mm	- Loss change ≤ 0.3dB@1300nm after test. - No fiber break and no sheath damage.
Water Penetration IEC 60794-1-22-F5B	- Height of water: 1m - Sample length: 3m - Time: 24h	- No water leak from the cable core of the opposite end.
Flame retardant IEC 60332-1	- Pass the single cable vertical flame propagation test.	
Flame retardant IEC 60332-3-24	- Pass the vertical flame spread of vertically-mounted bunched wires or cables category C test.	