



Riser Cable

The cable is designed to be installed indoor (within the building), through access, such as trunking, conduit and riser to the nearest access point of the customer or to be installed at the riser (vertical).

- 900µm Tight buffered fiber: LSZH material, containing 1 OM3 fiber
- Reinforcement member: Aramid yarns
- Outer Sheath: LSZH, aqua color

Cable Specification

Model	LP-IC-OM3-R-06	LP-IC-OM3-R-12
Nominal Cable Diameter (mm)	5.5±0.5	6.5±0.5
Tensile Max (N)	400	600
Crush Max (N/10cm)	500	500



Cable Application

Temperature Range		Minimum Bend Radius	
Storage	-20~+60°C	Load	20xD
Operation	-10~+60°C	Unload	10xD

Main Mechanical and Environmental Characteristics (Multi-mode)

Test	Test Standard	Specified Value	Acceptance Criteria
Tensile	IEC 60794-1-2-E1	6 cores : 400N, 5 min	$\Delta\alpha \leq 0.6\text{dB/km}$ after test, no damage
		12 cores : 600N, 5 min	
Crush	IEC 60794-1-2-E3	500N, 1min	$\Delta\alpha \leq 0.6\text{dB/km}$ after test, no damage
Impact	IEC 60794-1-2-E4	1N.m, R=12.5mm, 3impacts	$\Delta\alpha \leq 0.6\text{dB/km}$ after test, no damage
Bending	IEC 60794-1-2-E11	20D, 6turns, 10cycles	$\Delta\alpha \leq 0.6\text{dB/km}$ after test, no damage
Repeated Bending	IEC 60794-1-2-E6	R=20D, 40N, 25cycles	$\Delta\alpha \leq 0.6\text{dB/km}$ after test, no damage
Torsion	IEC 60794-1-2-E7	20N, 1m, +/-180°	$\Delta\alpha \leq 0.6\text{dB/km}$ after test, no damage

Cabled Fiber Performance (OM3)

Characteristics		Acceptance Value
Attenuation	@850nm	≤2.5dB/km
	@1300nm	≤0.7dB/km
Attenuation (After cabled)	@850nm	≤3.5dB/km
	@1300nm	≤1.5dB/km
Bandwidth (overfilled)	@850nm	≥1500MHz.km
	@1300nm	≥500MHz.km
Bandwidth (EMB)	@850nm	≥2000MHz.km
Core Diameter		50±2.5μm
Cladding Diameter		125±1.0μm
Core/Cladding Concentricity Error		≤1.5μm
Core Non-circularity		≤5.0%
Cladding Non-circularity		≤2.0%
Fiber Diameter with Coating (Uncolored)		245±10μm
Cladding/Coating Concentricity Error		≤12.0μm
Numerical aperture (NA)		0.200±0.015
Fiber Non-uniformity	Point Discontinuity	≤0.1dB
	Attenuation Uniformity	≤0.1dB/km
	Attenuation Coefficient Difference for Bi-directional Measurement	≤0.1dB/km
Macro-bend Induced Attenuation	R=15mm, N=2 turns, @850nm	≤0.1dB
	R=15mm, N=2 turns, @1300nm	≤0.3dB
	R=7.5mm, N=2 turns, @850nm	≤0.2dB
	R=7.5mm, N=2 turns, @1300nm	≤0.5dB
Proof Test		≥0.69GPa (100kpsi)
Coating Strip Force		1.0~8.9N
Dynamic Stress Corrosion Susceptibility Parameter		≥20
Temperature Induced Attenuation	-60°C~+85°C	≤0.20dB/km
Dry Heat Induced Attenuation	85°C±2°C, 30 days	≤0.20dB/km
Water Immersion Induced Attenuation	23°C±2°C, 30 days	≤0.20dB/km
Damp Heat Induced Attenuation	85°C±2°C, RH85%, 30 days	≤0.20dB/km

Fiber & Tube Color Identification

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

* If the color number is more than 12, the tube color code will be marked black ring and repeated again.

Sheath Marking

The outer sheath is marked in 1 meter intervals