

Rev.	Description	Date
A		03-2024

**Overview**

Cablewholesaleindoor Tight-Buffered Distribution Cable contains several tight-buffered bundled under the same jacket with kevlar strength members to stiffen the cable and prevent kinking.

With aramid yam as a reinforcing member, the cable is light weight, softness and easy to peel. It is widely used as pigtails and jumpers for communication equipment.

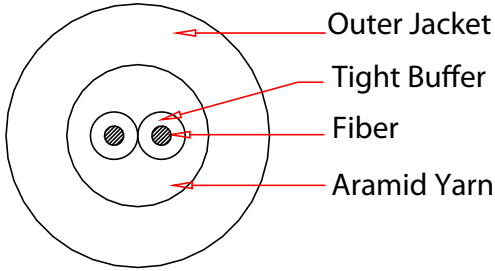
**Application**

- Widely used in FTTH access network
- Telecommunication Networks
- CCTV Networks
- Data Communications Networks
- Local Area Networks



**Features**

- Widely used between wiring closet and equipment rooms
- Tested to meet or exceed TIA&GR-409-CORE standards
- Non-unitized tight-buffered distribution indoor cable
- Light weight and buffered to 900µm for easy stripping and handling
- Characteristic of fiber color: blue/orange/green/brown /grey/white/red/black/yellow/purple/pink/aqua
- Choice of jacket



Cross Section

**Cable Parameters**

Product	Multimode 50/125 OM3
Fiber Count	2 cores
Strength Member	Aramid Yarn
Cable Type	Tight Buffer
Outer Jacket Color	Aqua
Outer Jacket	Riser rated

**Technical Parameter (2 Fiber Count)**

Outer Diameter (mm)	4.4±0.2	
Nomial Weight(kg/km)	19	
Max.Tensile Strength(N)	Short-term	270
	Long-term	90
Min. Bending Radius (mm)	Short-term	20D
	Long-term	10D
Max.Crush Resistance	1000	

**Optical Characteristics**

Fiber Type	OM3 50/125µm
Wavelength	850nm/1300nm
Attenuation(dB/km)	850nm ≤3.0 1300nm ≤1.0
Overfilled Modal Bandwidth (MHz.km)	1300nm ≥1500 850nm ≥500
Cladding diameter(µm)	125±1.0
Cladding material	siO2
Cladding non-circularity(%)	≤1.0
Coating/cladding concentricity error(µm)	≤12.5
Coating diameter(µm)	242±7
Core diameter(µm)	50±2.5
Core non-circularity(%)	≤6.0
Core/cladding concentricity error(µm)	≤1.5
Serial 1 Gigabit Ethernet	1000m/600m
Serial 10 Gigabit Ethernet	300m
40&100 Gigabit Ethernet 850nm	100m

**Environmental characteristics**

Temperature dependence Induced attenuation	-40~75°C	≤0.05 dB/km
Temperature-humidity cycling Induced attenuation	-10~+75°C, 90%R.H	≤0.05 dB/km
Damp heat dependence Induced attenuation	85°C,85%, R.H.,30days	≤0.05 dB/km
Watersoak dependence Induced attenuation	20°C for 30 days	≤0.05 dB/km
Temperature Range	Operating Temperature	-20~75°C
	Storage Temperature	-40~80°C

Item Number:	10E2-302NH	
Title:	2 Fiber Indoor Distribution Fiber Optic Cable, Multimode, 50/125, OM3, 10 Gbit, Aqua, Riser Rated, Spool, 1000 foot	
Drawn by:	JL	
Approved by:	MAC	
ID:	399	

No.	Specifications
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