

| Rev. | Description | Date    |
|------|-------------|---------|
| A    |             | 10-2021 |

**Overview**

Cablewholesale indoor/outdoor 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.

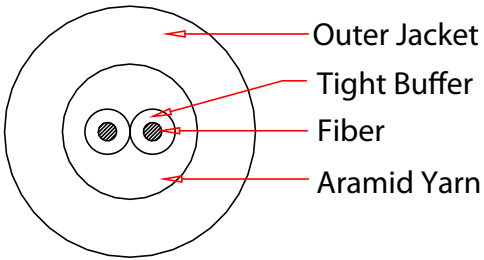
**Application**

- 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 | Black                |
| 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<br>1300nm ≤1.0  |
| Overfilled Modal Bandwidth (MHz.km)      | 1300nm ≥1500<br>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: | 10E3-302NH  |  |
| Title:       | 2 Fiber Indoor/Outdoor Fiber Optic Cable, Multimode, 50/125, OM3, 10 Gbit, Black, Riser Rated, Spool, 1000 foot |  |
| Drawn by:    | JL  |  |
| Approved by: | MAC   |  |
| ID:          | 399   |  |

| No. | Specifications |
|-----|----------------|
|-----|----------------|