



Cable Section

Scope

This document establishes the specification requirements for an indoor/outdoor distribution fiber optic cable. This cable construction consists of a distribution tight-buffer design with a plenum rated jacket.

Applications

Outdoors in duct, indoors in the plenum space, tray installations

Applicable Documents

- TIA/EIA FOTP Standards 455
- Color Coding of Fiber Optic Cables TIA/EIA-598
- NFPA262
- Compliant with ANSI/TIA-568-C.3 standard

Cable Construction Details

- Tight Buffered Fiber
Dimension: 900µm, Nominal
- Tight Buffer Color Code:
As per TIA/EIA-598 standard or per customer requirement
- Cable Strength:
Water swellable aramid yarns are pulled in with tight buffered fibers under the outer jacket
- Overall Sheath: UV resistant remguard plenum rated polymer



Maximum Tensile Load
 •Installation: 6 fiber 1610N/ 3621bf
 •Long Term: 6 fiber 535N/120lbf

•Minimum Bending Radius
 Loaded : 20 x Diameter
 Unloaded : 10 x Diameter

•Crush Resistance
 100 N/cm

•Impact Resistance (min.)
 25 Impacts

•Flexing ± 90° (min.)
 25 Cycles

•Temperature Rating
 Operation : -20°C to +85°C
 Installation : 0°C to +75°C
 Storage : -40°C to +85°C

Rev.	Description	Date
A		11-2021

Nominal Cable Dimensions & Weights

Product	Multimode, 62.5/125
Fiber Count	6
Outer Jacket Color	Orange
Cable OD in (mm)	0.200(4.6)
Weight lb/1000ft (kg/km)	18 (27)

Optical Characteristics

Items	OM1
Core Size [µm]	62.5
Wavelength [nm]	850/ 1300
Max. Attenuation[dB/km]	3.2/ 1.0
Bandwidth (EMB High Performance)[MHz.km]	200@850 600@1300
Serial 1 Gigabit Ethernet	300@850 550@1300
Serial 10 Gigabit Ethernet	32m (10Gb/s@850nm)

Item Number:	11E3-O206NH	
Title:	6 Fiber Indoor/Outdoor Fiber Optic Cable, Multimode 62.5/125, Plenum Rated, Orange, Spool, 1000ft	
Drawn by:	JL	
Approved by:	MAC	
ID:	204	

No.	Specifications
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