

RoHS

Rev.	Description	Date
A		05-2023

Optical Characteristics

Fiber Type	CORNING SMF-28 Ultra Optic fiber	
Attenuation(dB/km)	1310nm ≤0.32 1383nm ≤0.32 1490nm ≤0.21 1550nm ≤0.18 1625nm ≤0.20	
Point Discontinuity	1310nm	≤0.05dB
	1550nm	≤0.05dB
Mode-Field Wavelength(λcc)	1310nm	9.2±0.4um
	1550nm	10.4±0.5
Polarization Mode Dispersion (PMD) (ps/√km)	PMD Link design value	≤0.04
	Max. Individual fiber PMD	≤0.1
Fiber Cutoff wavelength(nm)	≤1260	
Dispersion Value[ps/(nm.km)]	1550nm ≤18.0 1625nm ≤22.0	
Fiber Curl	≥4.0m radius of curvature	
Cladding diameter(um)	125±0.7	
Core-Clad Concentricity	≤0.5 um	
Cladding non-circularity(%)	≤0.7	
Coating-Cladding concentricity(um)	≤12	
Coating diameter(μm)	242±5	
Coating diameter(um)	8.2	
Effective Group Index of Refraction(Neff)	1310nm:1.4676 1550nm:1.4682	
Fatigue Resistance Parameter(Nd)	20	
Rayleigh Backscatter Coefficient (for 1 ns Pulse Width)	1310nm: -77dB 1550nm: -82dB	
Temperature Dependence	-60~85°C	
Temperature-humidity cycling	-10 to +85°C,98% R.H.	

Overview

Gorelink Plenum Indoor/outdoor Tight-Buffered Distribution Cable contains 48 tight-buffered fibers bundled under the same jacket with aramid yarn strength members to stiffen the cable and prevent kinking. It is manufactured with an outer jacket that incorporates a UV stabilizer for protection against exposure to the sun.

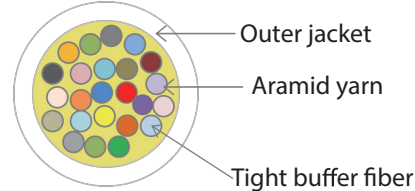
With aramid yarn as a reinforcing member, the cable is light weight, softness and easy to peel. It is widely used between wiring closets and equipment rooms within the buildings.

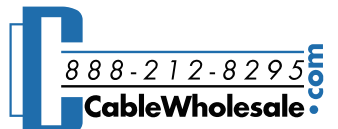
Application

1. Widely used in FTTH access network.
2. Telecommunication Networks
3. CCTV Networks
4. Data communications Networks
5. Local Area Networks

Features

1. Widely used between wiring closets and equipment rooms
2. Tested to meet or exceed TIA & GR-409-CORE standards
3. Light weight and buffered to 900um for easy stripping and handling
4. With UV resistant protection outer jacket
5. Characteristic of fiber color:
blue/orange/green/brown/grey/white/red/black/yellow/purple/pink/aqua



Item Number:	11F3-048xx	
Title:	Plenum 48 Strand Indoor/Outdoor Fiber Optic Cable, OS2 9/125 Singlemode, Corning SMF-28 Ultra, Black, Drum	
Drawn by:	JL	
Approved by:	MAC	
ID:	399	

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Technical Parameter

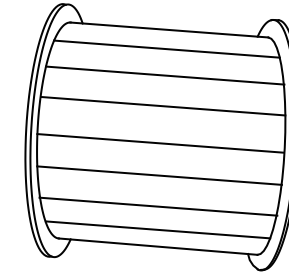
Fiber Count 48 Cores

Outer Diameter(mm)	10.5±0.3	
Nomial Weight(KG/KM)	61	
Max. Tensile Strength(N)	Short-term	1000
	Long-term	600
Min. Bending Radius(mm)	Short-term	20D
	Long-term	10D
Max. Crush Resistance(N)	Short-term	200
	Long-term	100

Cable Parameters

Product	Singlemod 9/125
Fiber Count	48 cores
Fiber Type	CORNING Glass
Strength Member	Aramid Yarn
Cable Type	900um Tight Buffer
Outer Jacket Color	Black
Outer Jacket	OFNP, Plenum rated

Packing:
Wood Spool+Paper wrap



Environmental characteristics

Temperature dependence Induced attenuation	-40~75°C	≤0.05 dB /km
Temperature-humidity cycling Induced attenuation	-10 to +75°C,90% R.H.	≤0.05 dB /km
Damp heat dependence Induced attenuation	85°C,85% R.H.,30 days	≤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

Macrobend Loss

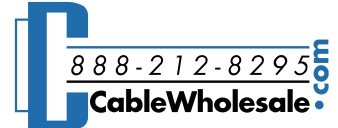
Mandrel Radius (mm)	Number of Turns	Wavelength (nm)	Induced Attenuation (dB)
10	1	1550	≤0.50
10	1	1625	≤1.50
15	10	1550	≤0.05
15	10	1625	≤0.30
25	100	1310,1550,1625	≤0.01

* The induced attenuation due to fiber wrapped around a mandrel of a specified radius.

PART NO.	CABLE LENGTH	Carton size/cm	G.W/kg	N.W/kg
11F3-048NF	500 ft	44*44*34	17.6	16.6
11F3-048NH	1000 ft	50*34	33.1	29.3
11F3-0482H	2000 ft	60*51	66.8	59.2

Cable Marking

Sheath Marking	Meter mark, Type of optical cable and fiber count, Manufacturer name ,Manufacture date
Length Marking	Length mark at intervals of one meter along the outside of cable sheath

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No.	Specifications
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