

Micro Tube Indoor Outdoor Drop Riser Fiber optic Cable for Building Wiring (GJPFXJH)

The cable consists of 12, 24, 48 or 96 bend insensitive G657.A2/B2 optical fibers protected with easy-strip buff er compound. The fiber units are protected by a flame retardant Afumex (LSOH) outer sheath. During the sheathing process, two Glass Reinforced Plastic (GRP) rods are included. The cable is also available with a UV resistant sheath for external installation.

Micro Tube Indoor Outdoor Drop Fiber optic Cable is a popular fiber cable in the market. The drop fiber cable uses multiple 900um flame-retardant tight buffer fibers as optical communication medium, two parallel Fiber Reinforced Plastic (FRP) are placed at the two sides as strength member, then the cable is completed with a flame-retardant LSZH (low smoke, zero halogens, flame-retardant) jacket.

Features

Fiber type: ITU-T- G652D, G657A fiber, G657B fiber It has good mechanical and environmental performance Flame (or not flame retardant) performance to meet the requirements of the standard Mechanical and physical properties of the sheath to meet the relevant standards Soft, flexible and convenient Good structure design, easy for branching and splicing Small size and light weight, easy for installation LSZH sheath ensuring good flame-retardant performance Especially applicable to vertical wiring in buildings

Application

Used as access building cable in premises distribution system, especially used in indoor or outdoor aerial access cabling. Adopted to core network; access network, fiber to the home; Building to building installation

Construction

Dielectric (single & dual jacket) Flame Rating: Riser (OFNR / OFCR / FT4) Fiber Count: 12(6x2f), 16(8x2f), 24(12x2f), 36(18x2f), 48(24x2f), 72(36x2f) and 96(48x2f) Fiber Type Single-mode (ESMF, bend-insensitive)

Transmission Characteristics: G657A2

Characteristics	Conditions	Specified Values	Units		
Geometrical characteristics					
Cladding diameter		125.0±0.7	μm		
Cladding non-circularity		≤0.7	%		
Coating diameter		242±5	μm		
Coating/cladding concentricity error		<12	μm		
Core/cladding concentricity error		≤0.5	μm		
Curl		≥4	m		



Optical character	istics
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Optical characteristics			
Attenuation	1310nm	≤0.4	dB/km
	1383nm	≤0.4	dB/km
	1490nm	≤0.3	dB/km
	1550nm	≤0.3	dB/km
	1625nm	≤0.3	dB/km
Attenuation vs. Wavelength	1285~1330nm	≤0.03	MHz*km
max. A difference	1525~1575nm	≤0.02	MHz*km
Dispersion coefficient	1550nm	≤18	ps/(nm*km)
	1625nm	≤22	ps/(nm*km)
Zero dispersion wavelength		1304~1324	nm
Zero dispersion slope		≤0.092	ps/(nm2*km)
Polarization mode dispersion			
PMD maximum individual fiber		≤0.1	ps/km1/2
PMD design link value		≤0.04	ps/km1/2
Cable cut off wavelength		≤1260	nm
Mode field diameter	1310nm	8.8~9.6	μm
	1550nm	9.9~10.9	μm
Group index of refraction	1310nm	1.4691	
	1550nm	1.4696	
Environmental characteristics	1310nm、1550nm&1625nm	1310nm、1550nm&1625nm	
Temperature cycling	-60℃ to +85℃	≤0.05	dB/km
Temperature-humidity cycling	-10℃ to +85℃4% to 98% RH	≤0.05	dB/km
Water immersion	23℃, 30 days	≤0.05	dB/km
Dry heat	85℃, 30 days	≤0.05	dB/km
Damp heat	85℃, 85%RH, 30 days	≤0.05	dB/km
Mechanical specification			·
Proof test		≥100	kpsi
Macro bending induced loss			
1Turns @10mm Radius	1550nm	≤0.5	dB
1Turns @10mm Radius	1625nm	≤1.5	dB
10Turns @15mm Radius	1550nm	≤0.05	dB
10Turns @15mm Radius	1625nm	≤0.30	dB



FTTH Optical Fiber Drop Cable

GJPFXJH

100Turns @25mm Radius	1310&1550&1625 nm	≤0.01	dB
Dynamic stress corrosion susceptibility parameter		20	