CF – AIR BLOWN TRANSITION FIBER WITH TONEWIRE

Overview

Connect Fiber's Round to Flat Transition fiber with tracer features an outer PE jacket & an inner flat LSZH jacket. The Transition fiber is designed to simplify FTTH deployment by allowing an easy transition from outdoor cable to riser rated cable by utilizing a single fiber cable. The optical fiber is positioned in the centre, two parallel Fiber Reinforced Plastics (FRP) are placed at the two sides, the cable is completed with a black or color LSZH sheath. Finally, the cable is completed with PE sheath. The manufacturing processes utilized high quality raw materials that guarantee the cable to be able to withstand the typical service condition for a period of twenty-five (25) years without detriment to the operation characteristics of the cable.

Features

- ITU-T G.657.A2 rated fiber with improved attenuation and bend performance as well as compatibility with standard single-mode.
- High quality raw material guarantees long service life of cable.
- Single cable is suitable for indoor & outdoor installation.
- Especially suitable for the last leg in FTTH systems.

Ordering Information

Fiber Count	Part Number	Description
2	CF-002-ODTFDC-SJNA-LSZH-ARP-T	Air Blown Transition Fiber Cable, Black Outdoor PE Jacket (no armour) surrounding a 2F Single Mode White Indoor LSZH G.657A2 Fiber, 2 rip cords and a 22 AWG tracer wire. Outer Cable Dimensions 6.5mm +/- 0.5mm. Indoor Fiber Cable Dimensions 3.0+/-0.1mm x 2.0 +/-0.1mm, 2000m

Standards

CABLE DESCRIPTION

- G.657A2 Single Mode Fiber
- Suitable for indoor & outdoor installation.
- 22 AWG copper tracer.

TEST CRITERIA

	ITU-T G.652	Characteristics of a single-mode optical fiber
\triangleright	IEC 60794-1-1	Optical fiber cables-part 1-1: Generic Specification-General
\triangleright	IEC 60794-1-2	Optical fiber cables-part 1-2: Generic Specification-Basic optical cable test
\triangleright	IEC 60794-3	Optical fiber cables-part 3: Sectional Specification-Outdoor cables
\triangleright	IEC 60794-3-10	Optical fiber cables-part 3-10: Outdoor Cables-Family specification for duct and
\triangleright	IEC 60794-3-11	Optical fiber cables-Part 3-11: Outdoor Cables-Detailed specification for duct and

WORKING CONDITIONS

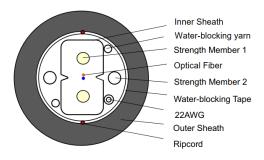
Operation temperature: -40 °C to 70 °C
Installation temperature: -40 °C to 70 °C

MINIMUM ALLOWABLE BENDING RADIUS

- Static: 10D (D: is the out diameter of the cable)
- Dynamic: 20D (D: is the out diameter of the cable)

Cable Construction

CROSS SECTION VIEW





650 Rupert Street, Waterloo, ON N2V 2R8 Phone: 877.900.7996 or 519.748.4411 Fax: 519.748.0466 customerservice@connect-telcom.com

inc. www.connect-telcom.com

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Specifications

Optical properties of the SM fiber are achieved through a germanium doped silica based core with a pure silica cladding which meets ITU-T G657A2, UV curable acrylate protective coating is applied over the glass cladding to provide the necessary maximum fiber lifetime. Geometrical and optical characteristics of fiber in cable as the following table:

Catagomi	Description	Specifi	Specification	
Category	Description	Before cable	After Cable	
	Cladding diameter	125.0 ± 0.7 μm		
	Coating diameter	245 ± 5 μm		
Geometrical	Cladding non-circularity		≤0.7%	
Characteristics	Coating/cladding concentricity error	≤12.0	≤12.0 μm	
	Coating non-circularity	≤0.	≤0.6%	
	Core/cladding concentricity error	≤0.5	≤0.5 μm	
	Mode field diameter at 1310 nm	8.4 ~ 9	8.4 ~ 9.2 μm	
	Mode field diameter at 1550 nm	9.3 ~ 1	9.3 ~ 10.3 μm	
	Attenuation at 1310 nm	≤ 0.35 dB/km	≤ 0.40 dB/km	
Omtion	Attenuation at 1383 nm	≤ 0.35 dB/km	≤ 0.40 dB/km	
Optical Characteristics	Attenuation at 1550 nm	≤ 0.21 dB/km	≤ 0.30 dB/km	
Cital acteristics	Attenuation at 1625 nm	≤ 0.23 dB/km	≤ 0.30 dB/km	
	Zero dispersion wavelength	1300~1	1300~1324 nm	
	Zero dispersion slope	≤ 0.092 ps	≤ 0.092 ps/(nm2·km)	
	Cable cut-off wavelength	≤ 126	≤ 1260 nm	
	Min bend radius	7.5	7.5mm	
Mechanical	Tensile Performance	600N short term		
Characteristics	Tensile Performance	300N lo	300N long term	
C.idi deterioties	Crush resistance	2200N/10cn	2200N/10cm short term	
	Crusii resistance	1000N/10cr	1000N/10cm long term	

DIMENSIONS AND DESCRIPTIONS OF CABLE CONSTRUCTION

Item	Details	Fiber Count
Optical fiber	Fiber count	2
Optical liber	Colour	Blue/Orange
Tracer wire	Туре	22 AWG
Strength member 1	Material	GFRP
Strength member 1	Diameter (mm)	0.5
Strongth momber 2	Material	GFRP
Strength member 2	Diameter (mm)	1.2
	Material	LSZH
Inner Sheath	Colour	White
	Dimension (mm)	3.0 (±0.1) x 2.0(±0.1)
	Material	PE
Outer Sheath	Colour	Black
	Dimension (mm)	6.5 ± 0.5
Cable Weight	(kg/km)	34



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