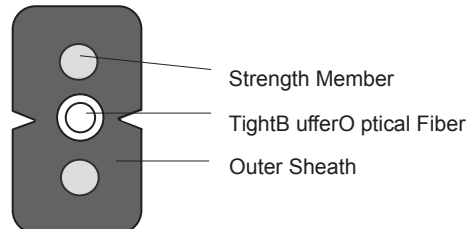




TIGHT BUFFER  
CLEAR DROP CABLE  
AR-2-T-DROP-MSZH 1F  
G657A2

## 1. CABLE DESCRIPTION

The tight buffer optical fiber unit is positioned in the centre. Two steel wires are placed at the two sides. Then, the cable is completed with a black or color LSZH sheath.



## 2. APPLICATION

- Internal FTTH applications horizontal and riser, especially suitable for the last leg in FTTH systems.

## 3. OPTICAL FIBER IN CABLE (ITU-G.657A2)

Category	Items	Unit	Description
Optical Characteristics	Attenuation at 1310 nm	dB/km	≤ 0.35
	Attenuation at 1550 nm	dB/km	≤ 0.22
	Attenuation at 1625 nm	dB/km	≤ 0.25
	Zero dispersion wavelength	nm	1300~1324
	Zero dispersion slope	ps/(nm <sup>2</sup> ·km)	≤ 0.092
	Cable cut-off wavelength $\lambda_{cc}$	nm	≤ 1260
	Mode field diameter (MFD) at 1310 nm	μm	8.4~9.2
	Mode field diameter (MFD) at 1550 nm	μm	9.3~10.3
	Group Index of Refraction (Typical) at 1310 nm	/	1.466
	Group Index of Refraction (Typical) at 1550 nm	/	1.467
	Macro-bend loss(1 turn, 7.5mm radius) at 1550nm	dB	≤ 0.2
	Macro-bend loss(1 turn, 10mm radius) at 1550nm	dB	≤ 0.1
	Macro-bend loss(10turns, 15mm radius) at 1550nm	dB	≤ 0.03

Category	Items	Unit	Description
Geometrical Characteristics	Cladding diameter	μm	125 ± 0.7
	Cladding non-circularity	%	≤ 0.7
	Coating diameter	μm	235 ~255
	Coating/cladding concentricity error	μm	≤ 12.0
	Coating non-circularity	%	≤ 6.0
	Core/cladding concentricity error	μm	≤ 0.5

## 4. CABLE DIMENSIONS AND CONSTRUCTION

Items		Description
Tight buffer	Material	Nylon
	Diameter	0.90±0.1 0mm
	Color	Nature
Strength Member	Material	Steel wire
	Diameter	0.45 mm
Outer Sheat	Material	LSZH
	Color	Black
Cable Diameter		3.0(±0.1)*2.0(±0.1)mm
Cable Weight	Net weight	Approx. 10kg/km

## 5. MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

Items	Test Method	Descriptions	
Tensile performance	IEC 60794-1-2 Method E1	short-term	200N
		long-term	100N
Crush Resistance	IEC 60794-1-2 Method E3	short-term	2200N/10cm
		long-term	1000N/10cm

Items	Test Method	Descriptions
Impact Resistance	IEC 60794-1-2 Method E4	No obvious change after test
Repeat Bending	IEC 60794-1-2 Method E6	
Torsion	IEC 60794-1-2 Method E7	
Cable Bend	IEC 60794-1-2 Method E11	
Temperature Range	IEC 60794-1-2 Method F1	-40°C~+60°C
Bending Radius	Static	15mm
	Dynamic	30mm

## 6. PACKING



## 7. MARKING

Unless otherwise specified, the cable sheath marking shall be as follows:

- Color: White
- Contents: Cable manufacturer or owner, the year of manufacture, the type of cable, length marking
- Interval: 1m

## 8. DELIVERY LENGHT

Standard delivery length is 0.5km/drum.