

# MCR GROUP, INC.

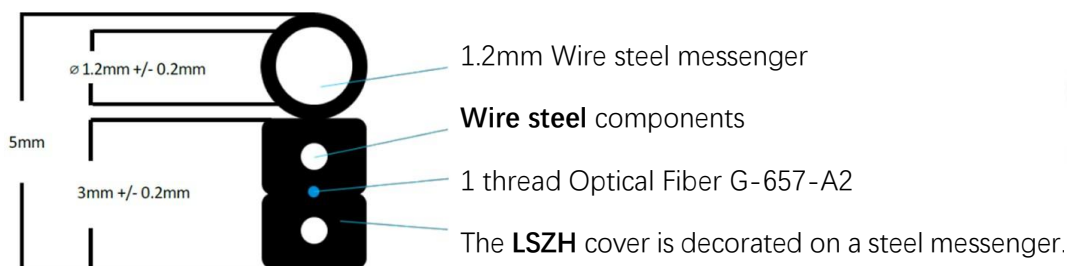
## Fiber optic cables type (LOW-FRICTION) G-657-A2 drop aerial or channeled

Model No: MCR BDC-LF1C 03

### Description:

FTTx installations in vertical or horizontal construction projects. Residential and Business segment according to application. **LSZH** cover with Flame retardants (RoHS) (UL 94 V-0).

### Cross section of fiber optic cable:



### Physical characteristics of Fibra Óptica:

Model No: MCR BDC-LF1C 03		
Element	Description	
Optical Fiber	Color	Blue
	Diametric	250/900μm
	Norma	G-657 A2
Messenger state	Material	Galvanized steel 1 wire
	Diametric	1.2mm ± 0.2mm
Auxiliary support component	Protection steel diameter	0.5-0.7max ±0.1mm
Jack	Material	<b>LSZH</b>
	Color	Black/ Gray
	Diametric Exterior	5*2*3mm±0.2mm
	Coefficient of friction	0.25
physical strength	Tension (Long Term)	440N
	Tension (Short Term)	600N
	Crushing resistance (Long Term)	1000N/10cm
	Crushing resistance (Short Term)	2200N/10cm
	Min. Bend Radius (Dynamic)	20H
	Min. Bend Radius (Static)	10H
	Installation Temperature	-10 ~ +50
	Operating Temperature	-40°C +60°C
	Minimum curvature	Radius 7.5mm
Flame Retardant Rating	IEC60332-1	
Packaging unit	300M / Reel	

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**The characteristics of Optical:**

Element	Description	
Optical Fiber Type	G.657-A2	
<b>Insertion loss connectors</b>	Insertion loss	0.15 dB Typical ≤0.30 dB max
	Typical Reflection	-62dB
<b>Attenuation coefficient</b>	1310nm	≤0.30 dB/Km
	1383nm(after hydrogen aging)	≤0.30 dB/km
	1490nm	≤0.24 dB/km
	1550nm	≤0.20 dB/Km
	1625nm	≤0.23 dB/km
<b>Dispersion</b>	1285nm-1340nm	-3.0ps/(nm·km)-3.0ps/(nm·km)
	1550nm	18ps/(nm·km)
	1625nm	22ps/(nm·km)
<b>PMD</b>	Max. for reel	0.20ps/km <sup>1/2</sup>
	Max. link design	0.10ps/km <sup>1/2</sup>
<b>Zero-Dispersion slope</b>	0.092ps/(nm <sup>2</sup> ·km)	
<b>Zero-Dispersion Wavelength</b>	1300nm-1324nm	
<b>Modal field diameter</b>	8.8±0.4/μm	

**Cable Marking:**

MCR - Cable Type - Date of Manufacture - Lot – Metering ( x m)

**Production Line Display(clean room):**

