

# PRODUCT SPECIFICATION

## NON-METALLIC OUTDOOR CABLE

### INTRODUCTION

This cable is specially designed for installation under the risk of electromagnetic interference, thunder and lightning, such as electrical areas like power station, outdoor aerial application.

This cable is construed of non-metallic strength member, reinforced with fiberglass or peripheral aramid yarns with PE outer sheath which is dedicating for installation mentioned.

### FEATURES & BENEFITS

- Anti-electromagnetics, thunder and lightning-proof
- UV Resistance
- Non-Metallic design
- Water blocking
- PE outer sheath

### APPLICATION

- Long haul communication
- Communication between stations or cable into-house
- Electric power system under the risk of thunder and lightning
- Electromagnetic interference stricken areas

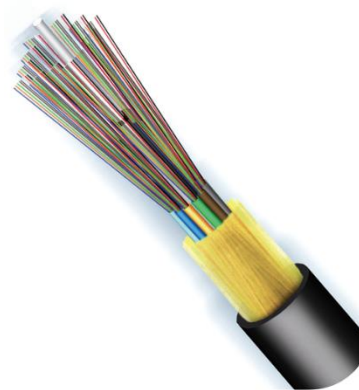
### MAXIMUM ATTENUATION

#### Single-mode

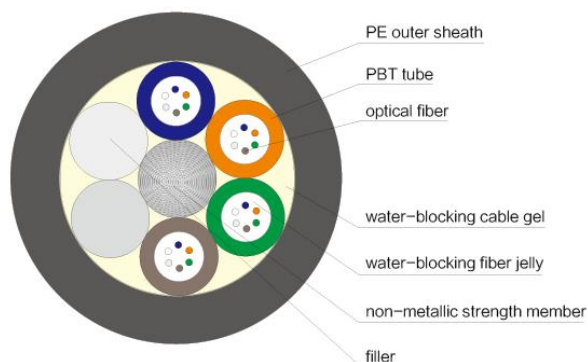
Wavelength (nm)	Maximum Value* (dB/km)
1310	≤ 0.35
1550	≤ 0.35

#### Multi-mode

Wavelength (nm)	Maximum Value* (dB/km)
850	≤ 3.5
1300	≤ 1.5



### CABLE STRUCTURE



### MODE-FIELD DIAMETER

#### Single-mode

Wavelength (nm)	MFD (μm)
1310	9.2 ± 0.4
1550	10.4 ± 0.5

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### DIMENSIONAL SPECIFICATIONS

#### Single-mode

Glass Geometry		Coating Geometry	
Fiber Curl	≥ 4.0 m radius of curvature	Coating Diameter	242 ± 5 μm
Cladding Diameter	125.0 ± 0.7 μm	Coating-Cladding Concentricity	< 12 μm
Core-Clad Concentricity	≤ 0.5 μm		
Cladding Non-Circularity	≤ 0.7%		

#### Multi-mode

Glass Geometry		Coating Geometry	
Core Diameter	50.0 ± 2.5 μm	Coating Diameter	242 ± 5 μm
Cladding Diameter	125.0 ± 0.7 μm	Coating-Cladding Concentricity	< 12 μm
Core-Clad Concentricity	≤ 1.5 μm		
Cladding Non-Circularity	≤ 1.0%		

### SPECIFICATION

LUX PN	FIBER COUNT	DIAMETER (mm)	TENSILE STRENGTH (N)		TEMPERATURE RANGE (°C)		CRUSH RESISTANCE (N/100)	
			INSTALLATION	LONG TERM	INSTALLATION	LONG TERM	INSTALLATION	LONG TERM
NMO-XXX-004	4	10.4	1000	300	-20 to 70	-10 to 60	1000	300
NMO-XXX-006	6	10.4	1000	300	-20 to 70	-10 to 60	1000	300
NMO-XXX-008	8	10.4	1000	400	-20 to 70	-10 to 60	1000	300
NMO-XXX-012	12	10.4	1000	400	-20 to 70	-10 to 60	1000	300
NMO-XXX-024	24	10.4	1000	400	-20 to 70	-10 to 60	1000	300
NMO-XXX-036	36	10.4	1500	600	-20 to 70	-10 to 60	1000	300
NMO-XXX-048	48	11.2	1500	600	-20 to 70	-10 to 60	1000	300
NMO-XXX-060	60	11.2	1500	600	-20 to 70	-10 to 60	1000	300
NMO-XXX-072	72	11.7	1500	600	-20 to 70	-10 to 60	1000	300
NMO-XXX-096	96	13.4	1500	600	-20 to 70	-10 to 60	1000	300
NMO-XXX-144	144	16.6	1500	600	-20 to 70	-10 to 60	1000	300

\* Please specify fiber type when ordering (see below)

XXX=OM1/OM2/OM3/OM4/OM5/OS2

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