

# PRODUCT SPECIFICATION

## FLAME RETARDANT ARMORED CABLE

### INTRODUCTION

This cable is constructed of a steel wire strength member with water blocking tape and armored tape, which provides extraordinary protection to the fiber against harsh environment. This cable is suitable for outdoor application against wide range of temperature cycling.

### FEATURES & BENEFITS

- Steel wrap tape provides robust protection to the fiber
- UV Resistance
- Moisture Resistance
- Water blocking
- Flame Retardant LSZH outer sheath

### APPLICATION

- Outside Plant Environment
- Long Haul Networking
- Telecommunication Networks
- Industrial and heavy traffic areas

### FLAME RETARDANT RATINGS

- IEC 60332-1-2
- IEC 60332-3-24
- IEC 60754-1
- IEC 60754-2
- IEC 61034-2

### MAXIMUM ATTENUATION

#### Single-mode

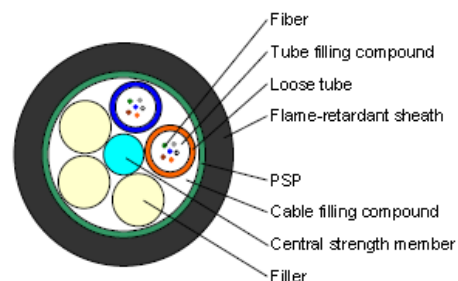
Wavelength (nm)	Maximum Value* (dB/km)
1310	≤ 0.35
1550	≤ 0.35

#### 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	$\geq 4.0$ m radius of curvature	Coating Diameter	$242 \pm 5 \mu\text{m}$
Cladding Diameter	$125.0 \pm 0.7 \mu\text{m}$	Coating-Cladding Concentricity	$< 12 \mu\text{m}$
Core-Clad Concentricity	$\leq 0.5 \mu\text{m}$		
Cladding Non-Circularity	$\leq 0.7\%$		

#### Multi-mode

Glass Geometry		Coating Geometry	
Core Diameter	$50.0 \pm 2.5 \mu\text{m}$	Coating Diameter	$242 \pm 5 \mu\text{m}$
Cladding Diameter	$125.0 \pm 0.7 \mu\text{m}$	Coating-Cladding Concentricity	$< 12 \mu\text{m}$
Core-Clad Concentricity	$\leq 1.5 \mu\text{m}$		
Cladding Non-Circularity	$\leq 1.0\%$		

### 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
FRC-XXX-006	6	10.5	1500	600	-5 to 60	-40 to 70	1000	300
FRC-XXX-008	8	10.5	1500	600	-5 to 60	-40 to 70	1000	300
FRC-XXX-012	12	10.5	1500	600	-5 to 60	-40 to 70	1000	300
FRC-XXX-024	24	10.5	1500	600	-5 to 60	-40 to 70	1000	300
FRC-XXX-036	36	10.5	1500	600	-5 to 60	-40 to 70	1000	300
FRC-XXX-048	48	10.5	1500	600	-5 to 60	-40 to 70	1000	300
FRC-XXX-060	60	10.5	1500	600	-5 to 60	-40 to 70	1000	300
FRC-XXX-072	72	11.5	1800	600	-5 to 60	-40 to 70	1200	400
FRC-XXX-096	96	13.5	2000	800	-5 to 60	-40 to 70	3000	1000
FRC-XXX-144	144	15.8	2200	800	-5 to 60	-40 to 70	3000	1000

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

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

The information and specification in this document are subjected to change without notice

