Loose Tube Cable Armored Design

SAMSUNG Loose Tube Armored Cable **(SC-LMA 100/200)** offers highly reliable, industry standard performance and accommodates the flexible and versatile needs for outside plant cables for today's most demanding and diverse fiber optics marketplace. It is designed to protect optical fibers from unexpected external shocks, attacks from rodents or other harsh environmental conditions. This cable design is and suitable for direct-buried and aerial application in real world installation.

Loose Tube Cable
(Non-Armored Design)

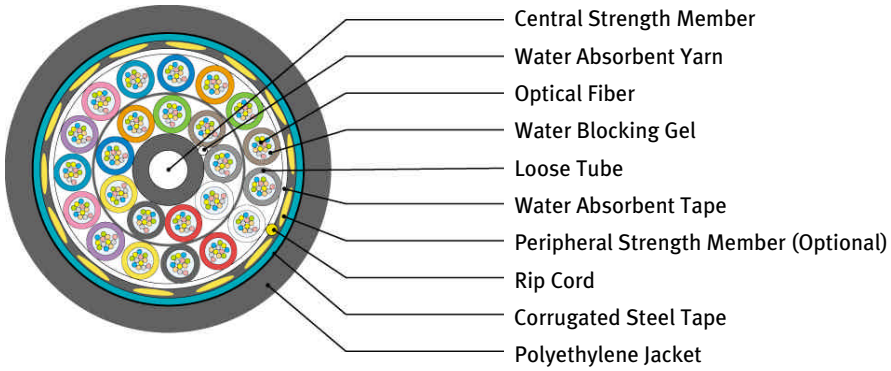
SC-LMA100/200

FEATURES / BENEFITS

- Fiber counts up to 432
- 1~12 fibers per gel filled buffer tube
- High tensile strength design
- Easy mid-span access
- Dry core water blocking design(SC-LMA 200)
- Gel-filled water blocking design(SC-LMA 100)
- Installed in direct-buried, aerial application
- Colored fibers and buffer tubes for quick identification
- UV-resistant outer jacket
- Robust yet easy-to-strip Medium Density PE outer jacket
- High fiber count to diameter ratio
- Complies with Telcordia GR-20-CORE, and TIA/EIA standards
- Custom designs are available on request

APPLICATIONS

- Long Haul and Metropolitan Area Network
- Inter-Office Trunking and Supertrunking
- Local Loop / Feeder
- Distribution



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MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Item Number	Max. Load (N)		Min. Bending Radius (mm)		Temperature (°C)		Crush Resistance (N)	Impact Resistance (Impacts)	Water Penetration (m)
	Installing	Operating	Installing	Operating	Installing	Operating	(/100 mm)	(@ 3 N.m)	(/24 hrs)
LMA-1M2S-XXX-TB7G	2700	1000	20 x Dia.	10 x Dia.	-30 ~ +60	-40 ~ +70	4400	20	1

CABLE WEIGHT & DIAMETER

Item Number	Fibers	Fibers per Tube	Layer Number	Unit Number	Nom. Outer Dia.		Nom. Weight		Max. Reel Length	
					mm	inch	kg/km	lbs/1000 ft	km	ft
LMA-1M2S-006-T67G	6	6	1	6	12.9	0.508	171	115	6	20,000
LMA-1M2S-012-T67G	12	6	1	6	12.9	0.508	171	115	6	20,000
LMA-1M2S-018-T67G	18	6	1	6	12.9	0.508	171	115	6	20,000
LMA-1M2S-024-T67G	24	6	1	6	12.9	0.508	171	115	6	20,000
LMA-1M2S-030-T67G	30	6	1	6	12.9	0.508	171	115	6	20,000
LMA-1M2S-036-T67G	36	6	1	6	12.9	0.508	171	115	6	20,000
LMA-1M2S-048-TB7G	48	12	1	6	13.8	0.543	192	129	6	20,000
LMA-1M2S-060-TB7G	60	12	1	6	13.8	0.543	192	129	6	20,000
LMA-1M2S-072-TB7G	72	12	1	6	13.8	0.543	192	129	6	20,000
LMA-1M2S-084-TB7G	84	12	1	8	15.5	0.610	233	157	6	20,000
LMA-1M2S-096-TB7G	96	12	1	8	15.5	0.610	233	157	6	20,000
LMA-1M2S-108-TB7G	108	12	1	10	17.3	0.681	284	191	6	20,000
LMA-1M2S-120-TB7G	120	12	1	10	17.3	0.681	284	191	6	20,000
LMA-1M2S-132-TB7G	132	12	1	12	19.1	0.752	340	228	6	20,000
LMA-1M2S-144-TB7G	144	12	1	12	19.1	0.752	340	228	6	20,000
LMA-1M2S-192-TB7G	192	12	2	18(6/12)	19.6	0.772	350	235	6	20,000
LMA-1M2S-204-TB7G	204	12	2	18(6/12)	19.6	0.772	350	235	6	20,000
LMA-1M2S-216-TB7G	216	12	2	18(6/12)	19.6	0.772	350	235	6	20,000
LMA-1M2S-228-TB7G	228	12	2	20(7/13)	20.1	0.791	374	251	6	20,000
LMA-1M2S-240-TB7G	240	12	2	20(7/13)	20.1	0.791	374	251	6	20,000
LMA-1M2S-288-TB7G	288	12	2	24(9/15)	22.1	0.874	439	295	5	16,400
LMA-1M2S-432-TB7G	432	12	3	36(6/12/18)	25.4	1.000	557	374	3	10,000

* FRP is used for central strength member. Steel wire is also available on request.

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ORDERING INFORMATION

LMA – [1] [2] [3] [4] – XXX – [6] [7] [8] [9] (Fiber Counts)

1 Sheath Construction

1 : Single Jacket Single Armor (SP)

2 : Double Jacket Single Armor (PSP)

3 : Triple Jacket Double Armor (PSPSP)

W : Triple Jacket Double Armor (PSPWP)

Note) The letters in parenthesis contain specific information on sheath materials. Each letter from the left denotes corresponding material used for cabling from inside to an outward direction according to the match below.

P : Polyethylene S : Corrugated Steel

W : Steel Wire Armor

2 Sheath Material

M : MDPE **H** : HDPE

F : Flame Retardant PE **Z** : LSZH

3 Central Member

SC - LMA100 : Gel - filled

0 : Metallic **1** : Dielectric

SC - LMA200 : Dry - core

2 : Dielectric **3** : Metallic

4 Fiber Type

S : SMF **M** : MM50/125 **L** : MM62.5/125

N : NZDSF **H** : Hybrid

6 Max. Attenuation

T : 0.35/0.25 dB/km (1310/1550 nm, SMF)

A : 0.40/0.30 dB/km (1310/1550 nm, SMF)

M : 2.5/0.7 dB/km & 500/500 MHz-km (850/1300 nm, MM50/125)

H : 2.7/0.8 dB/km & 500/500 MHz-km (850/1300 nm, MM50/125)

L : 3.0/0.8 dB/km & 160/500 MHz-km (850/1300 nm, MM62.5/125)

C : 3.2/1.0 dB/km & 160/500 MHz-km (850/1300 nm, MM62.5/125)

N : 0.25 dB/km (1550 nm, NZDSF)

7 Fibers in Tube

2 : 2 fibers **4** : 4 fibers **6** : 6 fibers **8** : 8 fibers

B : 12 fibers

8 Tensile Load

5 : 1500 N **7** : 2700 N **3** : 3500 N **X** : special

9 Peripheral Strength Member

N : None **G** : Glass Yarn **Y** : Aramid Yarn

S : Steel Wire

SAMSUNG STANDARD : LMA - 1M2S - XXX - TB7G

- Loose Tube Design, Single Jacket Single Armored Cable
- Dry core, Dielectric Strength Member (FRP + Glass Yarn)
- Tensile load : Max. 2700 N

Samsung Electronics Fiberoptics Division
7th Floor, Samsung Main Building 250, 2-Ga,
Taepyung-Ro, Chung-Gu, Seoul, Korea 100-742
Tel: +82-2-751-2529 Fax: +82-2-751-2687
e-mail: fiberoptics@samsung.com

Samsung Telecommunications America
1130E, Arapaho Road, Richardson, TX 75081
Toll Free Number: 1-877-ssoptic/1-877-776-7842
Fax: 1-972-761-7349