

## Figure-8 Cable Non-Armored Design

SAMSUNG Multitube, Non-Armored Figure-8 Cable (**SC-8FN100/200**) offers highly reliable, industry standard performance and accommodates the flexible and versatile needs of outside plant cables for today's most demanding

and diverse fiber optics marketplace. It is designed to ensure superior mechanical and environmental characteristics which makes it suitable for aerial applications.

SC-8FN100/200



Figure-8 Cable  
(Non-Armored Design)

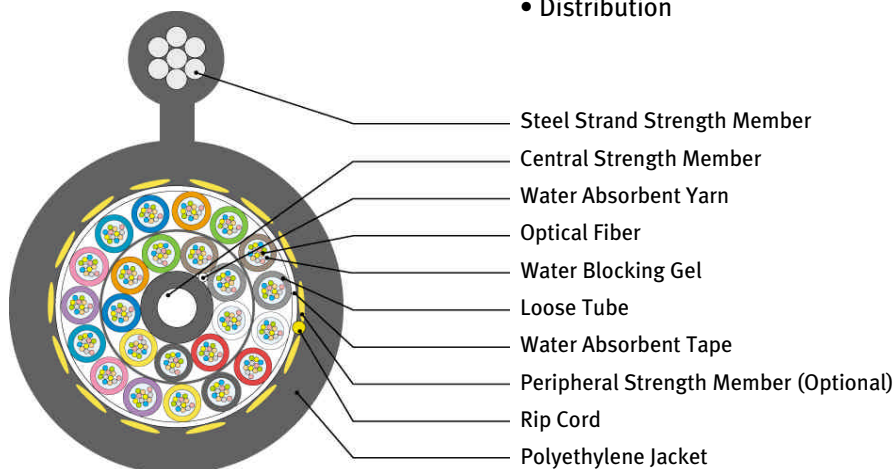
SC-8FN100/200

### FEATURES / BENEFITS

- Fiber counts up to 288
- 1~12 fibers per gel filled buffer tube
- High tensile strength design
- Self-supporting design incorporating an integral messenger wire
- Easy mid-span access
- Dry core water blocking designs(SC-8FN200)
- Gel-filled water blocking designs(SC-8FN100)
- Suitable for aerial installations
- Color coded 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 NESC Rule 250 for light and heavy loading districts
- 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
- Local Loop / Feeder
- Distribution



## Figure-8 Cable Non-Armored Design

### MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Item Number	Max. Load		Min. Bending Radius		Temperature		Crush Resistance (N) ( /100 mm)	Impact Resistance (Impacts) (@ 3 N.m)	Water Penetration (m) ( /24 hrs)
	(N)		(mm)		(°C)				
	Installing	Operating	Installing	Operating	Installing	Operating			
8FN-SLNM2S-XXX-TBG	15000	7500	20 x Dia.	10 x Dia.	-30 ~ +60	-40 ~ +70	2200	20	3

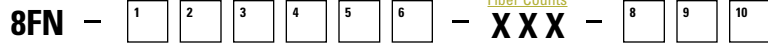
### CABLE WEIGHT & DIAMETER

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
8FN-SLNM2S-012-T6N	12	6	1	6	11.3 x 22.3	0.445 x 0.878	313	210	4	13,000
8FN-SLNM2S-018-T6N	18	6	1	6	11.3 x 22.3	0.445 x 0.878	313	210	4	13,000
8FN-SLNM2S-024-T6N	24	6	1	6	11.3 x 22.3	0.445 x 0.878	313	210	4	13,000
8FN-SLNM2S-030-T6N	30	6	1	6	11.3 x 22.3	0.445 x 0.878	313	210	4	13,000
8FN-SLNM2S-036-T6N	36	6	1	6	11.3 x 22.3	0.445 x 0.878	313	210	4	13,000
8FN-SLNM2S-048-TBN	48	12	1	6	12.2 x 23.2	0.480 x 0.913	331	222	4	13,000
8FN-SLNM2S-060-TBN	60	12	1	6	12.2 x 23.2	0.480 x 0.913	331	222	4	13,000
8FN-SLNM2S-072-TBN	72	12	1	6	12.2 x 23.2	0.480 x 0.914	331	222	4	13,000
8FN-SLNM2S-084-TBN	84	12	1	8	13.9 x 24.9	0.547 x 0.980	365	245	4	13,000
8FN-SLNM2S-096-TBN	96	12	1	8	13.9 x 24.9	0.547 x 0.980	365	245	4	13,000
8FN-SLNM2S-108-TBN	108	12	1	10	15.7 x 26.7	0.618 x 1.051	404	271	4	13,000
8FN-SLNM2S-120-TBN	120	12	1	10	15.7 x 26.7	0.618 x 1.051	404	271	4	13,000
8FN-SLNM2S-132-TBN	132	12	1	12	17.5 x 28.5	0.689 x 1.122	449	301	4	13,000
8FN-SLNM2S-144-TBN	144	12	1	12	17.5 x 28.5	0.689 x 1.122	449	301	4	13,000
8FN-SLNM2S-156-TBN	156	12	2	18(6/12)	18.0 x 29.0	0.709 x 1.142	454	305	4	13,000
8FN-SLNM2S-168-TBN	168	12	2	18(6/12)	18.0 x 29.0	0.709 x 1.142	454	305	4	13,000
8FN-SLNM2S-180-TBN	180	12	2	18(6/12)	18.0 x 29.0	0.709 x 1.142	454	305	4	13,000
8FN-SLNM2S-192-TBN	192	12	2	18(6/12)	18.0 x 29.0	0.709 x 1.142	454	305	4	13,000
8FN-SLNM2S-204-TBN	204	12	2	18(6/12)	18.0 x 29.0	0.709 x 1.142	454	305	4	13,000
8FN-SLNM2S-216-TBN	216	12	2	18(6/12)	18.0 x 29.0	0.709 x 1.142	454	305	4	13,000
8FN-SLNM2S-288-TBN	288	12	2	24(9/15)	20.6 x 31.6	0.811 x 1.244	534	358	4	12,000

SC-8FN100/200

# Figure-8 Cable Non-Armored Design

## ORDERING INFORMATION



### 1 Suspension Type

**S** : Steel Stranded wire    **F** : FRP Rod    **X** : Others

### 2 Cable Type

**L** : Loose Tube    **S** : Slotted Ribbon    **T** : Ribbon in Tube

### 3 Sheath Construction

**L** : LAP Sheath (AP)    **N** : Single Jacket (P)  
**D** : Double Jacket (PYP)    **X** : Others

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.

A : Laminated Aluminum Tape P : Polyethylene  
 Y : Yarn (Glass, Aramid)

### 4 Sheath Material

**M** : MDPE    **H** : HDPE    **F** : Flame Retardant PE    **Z** : LSZH

### 5 Central Member

**SC - 8FN100 (Gel - Filled)**  
**0** : Metallic    **1** : Dielectric  
**SC - 8FN200 (Dry - Core)**  
**2** : Dielectric    **3** : Metallic

### 6 Fiber Type

**S** : SMF    **M** : MM50/125    **L** : MM62.5/125  
**N** : NZDSF    **H** : Hybrid

### 8 Max. Attenuation

**T** : 0.35/0.25 dB/km (1310/1550 nm, SMF)  
**A** : 0.40/0.30 dB/km (1310/1550 nm, SMF)  
**S** : 0.45/0.35 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)

### 9 Fibers in Tube/bundle

**2** : 2 fibers    **4** : 4 fibers    **6** : 6 fibers    **8** : 8 fibers  
**B** : 12 fibers    **D** : 24 fibers

### 10 Peripheral Strength Member

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

## SAMSUNG STANDARD : 8FN - SLNM2S - XXX - TBG

- Loose Tube Figure-8 Cable
- Single Jacket Non-Armored, Single mode fibers Cable
- Dry core, Dielectric Central member(FRP + Glass Yarn)
- Steel stranded Wire for suspension (2.0mm x 7 wires)

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

SC-8FN100/200