

## Figure-8 Cable Armored Design

SAMSUNG Multitube, Armored Figure-8 Cable (**SC-8FA100/200**) 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 making it suitable for aerial applications in real world installations. It is designed to maintain and protect fibers against unexpected external shocks, or harsh environmental conditions.

### 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 design(SC-8FA200)
- Gel-filled water blocking design(SC-8FA100)
- 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 available on request

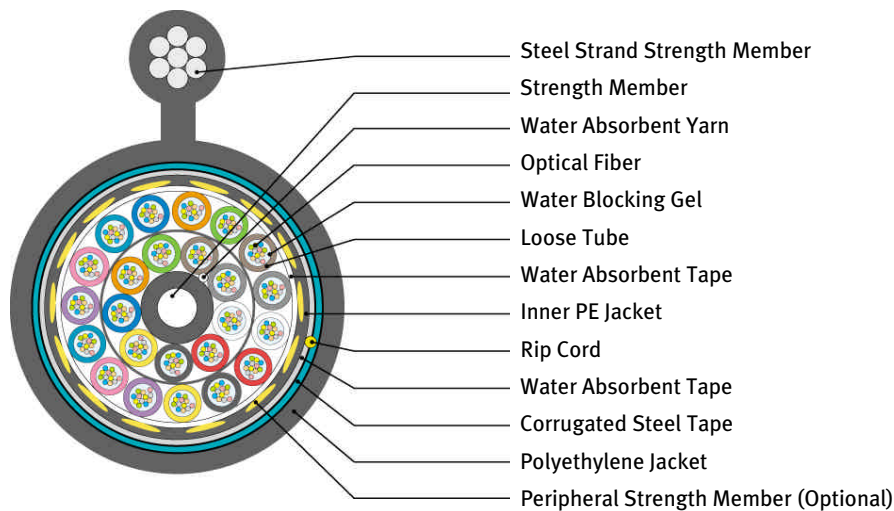


Figure-8 Cable  
(Armored Design)

SC-8FA100/200

### APPLICATIONS

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



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### 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			
8FA-SL2M2S-XXX-TBN	15000	7500	20 x Dia.	10 x Dia.	-30 ~ +60	-40 ~ +70	2200	20	1

### CABLE WEIGHT & DIAMETER

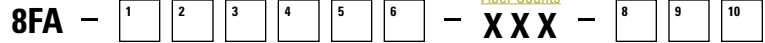
Item Number	Fibers	Fibers per tube	Layer Number	Unit Number	Nom. Outer Dia.		Nom. Weight		Max. Reel Length	
					mm	inch	kg/km	lbs/1000 ft	km	ft
8FA-SL2M2S-012-T6N	12	6	1	6	14.7 x 25.7	0.579 x 1.012	424	285	4	13,000
8FA-SL2M2S-018-T6N	18	6	1	6	14.7 x 25.7	0.579 x 1.012	424	285	4	13,000
8FA-SL2M2S-024-T6N	24	6	1	6	14.7 x 25.7	0.579 x 1.012	424	285	4	13,000
8FA-SL2M2S-030-T6N	30	6	1	6	14.7 x 25.7	0.579 x 1.012	424	285	4	13,000
8FA-SL2M2S-036-T6N	36	6	1	6	14.7 x 25.7	0.579 x 1.012	424	285	4	13,000
8FA-SL2M2S-048-TBN	48	12	1	6	15.6 x 26.6	0.614 x 1.047	450	302	4	13,000
8FA-SL2M2S-060-TBN	60	12	1	6	15.6 x 26.6	0.614 x 1.047	450	302	4	13,000
8FA-SL2M2S-072-TBN	72	12	1	6	15.6 x 26.6	0.614 x 1.047	450	302	4	13,000
8FA-SL2M2S-084-TBN	84	12	1	8	17.3 x 28.3	0.681 x 1.114	496	333	4	13,000
8FA-SL2M2S-096-TBN	96	12	1	8	17.3 x 28.3	0.681 x 1.114	496	333	4	13,000
8FA-SL2M2S-108-TBN	108	12	1	10	19.1 x 30.1	0.752 x 1.185	550	369	4	13,000
8FA-SL2M2S-120-TBN	120	12	1	10	19.1 x 30.1	0.752 x 1.185	550	369	4	13,000
8FA-SL2M2S-132-TBN	132	12	1	12	20.9 x 31.9	0.823 x 1.256	609	409	4	13,000
8FA-SL2M2S-144-TBN	144	12	1	12	20.9 x 31.9	0.823 x 1.256	609	409	4	13,000
8FA-SL2M2S-156-TBN	156	12	2	18(6/12)	21.4 x 32.4	0.843 x 1.276	618	415	3	10,000
8FA-SL2M2S-168-TBN	168	12	2	18(6/12)	21.4 x 32.4	0.843 x 1.276	618	415	3	10,000
8FA-SL2M2S-180-TBN	180	12	2	18(6/12)	21.4 x 32.4	0.843 x 1.276	618	415	3	10,000
8FA-SL2M2S-192-TBN	192	12	2	18(6/12)	21.4 x 32.4	0.843 x 1.276	618	415	3	10,000
8FA-SL2M2S-204-TBN	204	12	2	18(6/12)	21.4 x 32.4	0.843 x 1.276	618	415	3	10,000
8FA-SL2M2S-216-TBN	216	12	2	18(6/12)	21.4 x 32.4	0.843 x 1.276	618	415	3	10,000
8FA-SL2M2S-288-TBN	288	12	2	24(9/15)	24.0 x 35.0	0.945 x 1.378	718	482	2	8,000

SC-8FA100/200

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## 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

- 1** : SJ 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.

- A** : Laminated Aluminum Tape    **P** : Polyethylene
- S** : Corrugated Steel                **W** : Steel Wire Armor

### 4 Sheath Material

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

### 5 Central Member

- SC - 8FA100 (Gel - Filled)**
- 0** : Metallic                                **1** : Dielectric
- SC - 8FA200 (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, MM50/125)
- 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                                **A** : Aramid Yarn

## SAMSUNG STANDARD : 8FA - SL2M2S - XXX - TBN

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

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