

Ribbon Fiber Cable Slotted / Armored Design

SAMSUNG Armored Slotted Core Ribbon Fiber Cable (**SC-RSA**) offers highly reliable, industry standard performance and accommodates the flexible and versatile needs for today's most demanding and diverse fiber optics marketplace. Our ribbon structure combined with gel-free core considerably reduces splicing time and helps users to

have cost effective installations. This cable is designed to protect optical fibers from unexpected external shock, attacks from rodents or harsh environmental conditions and is suitable for direct-buried or aerial applications in real world installations.



Ribbon Fiber Cable
(Slotted / Armored Design)

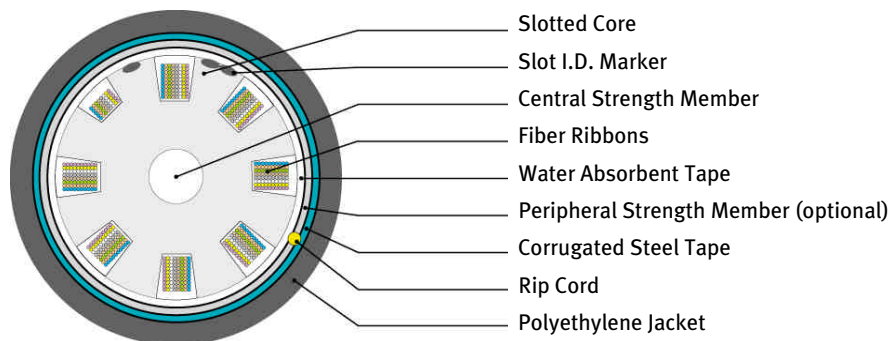
SC-RSA

FEATURES / BENEFITS

- Fiber counts up to 1000
- 4 or 8-fiber ribbon system
- High fiber count to diameter ratio
- Excellent ribbon geometries allow for high splicing yield
- Ribbon ID number and color-coded fiber for quick identification
- UV-resistant outer jacket
- Robust yet easy-to-strip Medium Density PE jacket
- Complies with Telcordia GR-20-CORE and TIA/EIA standards
- Custom designs are available on request

APPLICATIONS

- Metropolitan Area Network
- Local Loop / Feeder
- Trunk and Distribution Network



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RIBBON IDENTIFICATION

No. of Ribbons	4 Fiber Colors(up to 300 fibers)				8 Fiber Colors(more than 300fibers)							
	1	2	3	4	1	2	3	4	5	6	7	8
1	Blue	White	White	Pink	Blue	White	White	Pink	Yellow	White	White	Pink
2	Yellow	White	White	Pink	Green	White	White	Pink	Red	White	White	Pink
3	Green	White	White	Pink	Violet	White	White	Pink	Blue	White	White	White
4	Red	White	White	Pink	Yellow	White	White	White	Green	White	White	White
5	Violet	White	White	Pink	Red	White	White	White	Violet	White	White	White
6					Blue	White	White	Aqua	Yellow	White	White	Aqua
7					Green	White	White	Aqua	Red	White	White	Aqua
8					Violet	White	White	Aqua	Blue	White	White	Brown
9					Yellow	White	White	Brown	Green	White	White	Brown
10					Red	White	White	Brown	Violet	White	White	Brown

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Item Number	Max. Load		Min. Bending Radius		Temperature		Crush Resistance	Impact Resistance	Water Penetration
	(N)		(mm)		(°C)		(N)	(Impacts)	(m)
	Installing	Operating	Installing	Operating	Installing	Operating	(/100 mm)	(@ 3 N.m)	(/24 hrs)
RSA-1M3S-0100-A40N	1500	900	250	188	-30 ~ +60	-40 ~ +70	3000	20	1
RSA-1M3S-0200-A40N	2000	1200	330	248	-30 ~ +60	-40 ~ +70	3000	20	1
RSA-1M3S-0300-A40N	2000	1200	410	308	-30 ~ +60	-40 ~ +70	3000	20	1
RSA-1M3S-0600-A80N	4000	2400	470	353	-30 ~ +60	-40 ~ +70	3000	20	1
RSA-1M3S-1000-A80N	4000	2400	830	623	-30 ~ +60	-40 ~ +70	3000	20	1

CABLE WEIGHT & DIAMETER

Item Number	Fibers		Ribbons per Slot	Slot Number	Total No. of Ribbons	Nom. Dia.		Nom. Weight		Max. deliverable Length	
		Fibers per Ribbon				mm	inch	kg/km	lbs/1000 ft	km	ft
RSA-1M3S-0100-A40N	100	4	5	5	25	12.5	0.49	170	113	6	20,000
RSA-1M3S-0200-A40N	200	4	5	10	50	16.5	0.64	250	167	6	20,000
RSA-1M3S-0300-A40N	300	4	5	15	75	20.5	0.80	330	220	6	20,000
RSA-1M3S-0600-A80N	600	8	10	8	75	23.5	0.92	500	333	4	13,000
RSA-1M3S-1000-A80N	1000	8	10	13	125	41.5	1.63	1550	1033	2	6,500

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ORDERING INFORMATION

RSA — — ^{Fiber Counts} XXXX —

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

2 : Dielectric 3 : Metallic

4 Fiber Type

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

6 Max. Attenuation

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

7 Ribbon Type

2 : 2 fibers ribbon 4 : 4 fibers ribbon 8 : 8 fibers ribbon

8 Tensile Load

0 : 2/3W 1 : 1W 2 : 2W 7 : 2700N

A : 1.5W X : Others

W: weight of 1 km of cable in kg

9 Peripheral Strength Member

N : None G : Glass Yarn Y : Aramid Yarn S : Steel Wire

SAMSUNG STANDARD : RSA - 1M3S - XXXX - A40N

- Slotted Ribbon Design with Single Jacket Single-Armored Cable
- Steel strength members
- Tensile load : 2/3 weight of 1 km of cable

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