Indoor/Outdoor Cable Uni-tube Design

SAMSUNG Indoor/Outdoor Uni-tube Design Cables **(SC-IOU)** not only offer all the mechanical and environmental characteristics of outside plant cables, but also satisfy all the requirements for use in inside plant applications. Its flexible and light-weight design with small diameter delivers maximum versatile solutions in real world deployments. By installing indoor/outdoor cable, considerable losses of time and costs for splicing locations are eliminated as it can be routed without interruption.

Indoor/Outdoor Cable
(Uni-tube Design)

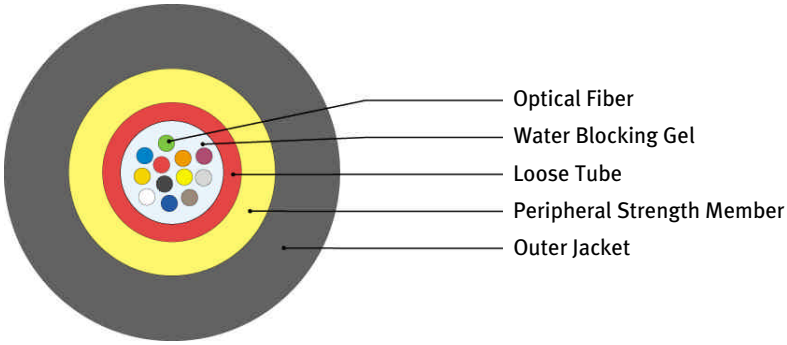
SC-IOU

FEATURES / BENEFITS

- Fiber counts up to 24
- Light weight
- Small diameter
- Easy mid-span access
- Color-coded fibers for quick identification
- UV-resistant outer jacket
- Custom designs available on request
- OFNR-UL 1666 / riser-rated

APPLICATIONS

- Building Interconnection
- Campus LAN
- Distribution Networks



Indoor/Outdoor Cable Uni-tube Design

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)
IOU-RFS-XX-T5G	800	600	20 x Dia.	10 x Dia.	-0 ~ +60	-20 ~ +70	1500	20	1

CABLE WEIGHT & DIAMETER

Item Number	Fibers	Nom.Outer Dia.		Nom. Weight		Max. Reel Length	
		mm	inch	kg/km	lbs/1000 ft	km	ft
IOU-RFS-06-T5G	6	7.1	0.28	66	44	6	20,000
IOU-RFS-12-T5G	12	7.1	0.28	66	44	6	20,000
IOU-RFS-18-T5G	18	8.5	0.33	88	59	6	20,000
IOU-RFS-24-T5G	24	8.5	0.33	88	59	6	20,000

ORDERING INFORMATION

IOU – [1][2][3] – Fiber Counts **XX** – [5][6][7]

1 Flame Retardancy Grade

R : OFNR type **P** : OFNP type **L** : OFN - LS type

2 Sheath Construction

F : Single Jacket None Armor - FJ(dielectric)

W : Single Jacket None Armor - WJ(metallic)

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.

F : FRP Rod J : Jacket Material

W : Steel Wire

3 Fiber Type

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

N : NZDSF **H** : Hybrid

5 Max. Attenuati5on

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)

6 Tensile Load

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

7 Peripheral Strength Member

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

SAMSUNG STANDARD : IOU - RFS - XX - T5G

- Uni-tube Design For Premise Network
- OFNR grade
- Single Jacket Non - Armored, Single Mode Cable
- Tensile load : Max. 1500 N

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