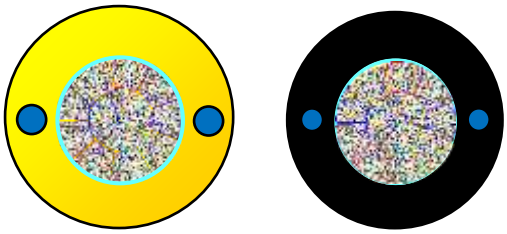
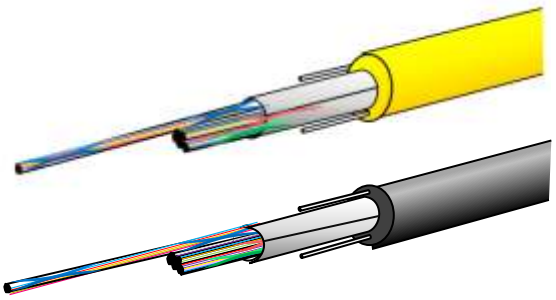
Wrapping Tube Cable (WTC™) with 12 Fiber Spider Web Ribbon (SWR™) Indoor, Indoor/Outdoor WTC™ 144 – 6912F





The Wrapping Tube Cable (WTC™) with Spider Web Ribbon (SWR™) is an ultra-high density cable designed for fiber-to-the-home (FTTH), access markets, and data centers. WTC™ with SWR™ offers the smallest cable diameter and lowest weight among high-fiber count ribbon cables in the industry. It is available in fiber counts ranging from 144 to 6,912.
SWR™ is an intermittent bonded fiber ribbon design allowing for either a highly efficient ribbon splicing or an individual fiber breakout splicing process. With the ability to roll and conform, the SWR™ provides ultra high density fiber packaging in the WTC™.
Indoor, Indoor/Outdoor WTC™ are compliant to requirements of both the European construction products regulation (CPR) and the North American standard UL. This incorporates the leading-edge Spider Web Ribbon technology in a robust, flame-retardant cable package that can be used within buildings and, because of the core water-blocking feature, can also be routed outside provided the cable is housed within covered pathway spaces including duct-banks and cable trays.

Features

- UV Resistant (for Indoor/Outdoor)
- Full dry (gel-free) construction
- Mid Span Access
- Fully dielectric
- OFNR-ST1
- CPR Certified
- Splicing compatibility with 250μm Ribbon

Application

- Indoor, Indoor/Outdoor installation
- Riser for vertical use in shafts or from floor to floor

Physical & Mechanical Characteristics

Fiber count			144F	192F	288F	432F	576F	864F	1152F	1728F	2880F	3456F	6912F
Cable diameter (in approx.)		mm (in.)	12.5 (0.492)	13.0 (0.512)	13.0 (0.512)	14.5 (0.571)	15.5 (0.610)	17.0 (0.669)	18.0 (0.709)	21.5 (0.846)	25.0 (0.984)	25.5 (1.004)	33.5 (1.319)
Cable weight (in approx.)		kg/km (lbs/1000ft)	165 (111)	175 (118)	190 (128)	215 (145)	240 (161)	290 (219)	325 (717)	475 (320)	615 (414)	675 (454)	1025 (689)
Fibers per bundled unit			-			72F			144F		288F	144F	288F
Number of bundled units			-			6	8	12	8	12	10	24	24
Tensile performance (*1)	Short term(*2)	N	1300					2700					
	Long term	N	399					810					
Bending radius(*1)	Cyclic Flexing	mm	125	130	130	145	155	170	180	215	250	255	335
	Cable bend	mm	125	130	130	145	155	170	180	215	250	255	335
Compressive strength(*1)		N/100mm	2200										
Impact resistance(*1)		N・m	4.4										

***1.** Reference standard : ANSI/ICEA S-104-696
***2.** Please follow the appropriate procedure that Fujikura recommends for pulling cable

Contact us

1-5-1, Kiba, Koto-ku, Tokyo 135-8512, Japan

Optical Fiber Characteristics

Fiber Count	Fiber Diameter	Fiber Pitch	Fiber Type	MFD	Maximum Attenuation (Cabled) (dB/km)		
					1310 nm	1383 nm (*3, 4)	1550 nm
144F to 6912F (*5)	200 µm	200/250 µm	ITU-T G.652.D and G.657.A1	8.6 ± 0.4 µm	≤ 0.40	≤ 0.40	≤ 0.30

***3.** The value after hydrogen aging in optical fiber in accordance with IEC 60793-2-50 test procedure.
***4.** The value before coloring process
***5**. 6912 is only available in 200um pitch.

Fiber Colors in 12F SWR

No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10	No.11	No.12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Turquoise

Stripe Ring Mark (*6, 7)

SWR No.1	SWR No.2	SWR No.3	SWR No.4	SWR No.5	SWR No.6
SWR No.7	SWR No.8	SWR No.9	SWR No.10	SWR No.11	SWR No.12
SWR No.13	SWR No.14	SWR No.15	SWR No.16	SWR No.17	SWR No.18
SWR No.19	SWR No.20	SWR No.21	SWR No.22	SWR No.23	SWR No.24

***6.** Each block denotes "5" and each bar denotes "1".
***7.** The order of block and bar for SWR may be reversed in the cable (e.g. No.6 may be ■▮ or ▮■)

Environmental Characteristics

Temperature cycling	Installation	-30°C to 60°C (-22°F to +140°F)
	Operation	-40°C to 70°C (-40ºF to +158ºF)
	Transportation/Storage	-40°C to 70°C (-40°F to +158°F)

Reference standard : ANSI/ICEA S-104-696

Flame Retardant Characteristics

Fiber count	144, 192, 288, 432, 576, 864,1152, 1728F	2880, 3456F, 6912F
EN13501-6 Classification	Cca-s1b,d1,a1	Cca-s1,d0,a1
Vertical test	UL 1666	
Fire propagation with smoke-release test	UL 1685	

Contact us

1-5-1, Kiba, Koto-ku, Tokyo 135-8512, Japan