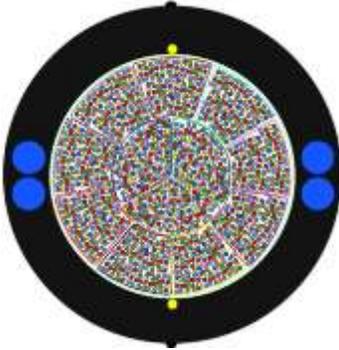


**Wrapping Tube Cable (WTC™) with 12 Fiber Spider Web Ribbon (SWR™)
Outdoor WTC™ 144 – 13824F**



The Wrapping Tube Cable (WTC™) with Spider Web Ribbon (SWR™) is an ultra-high density outside plant cable designed for fiber-to-the-home (FTTH), access markets, and data centers. It complies with the latest outside plant cable standard, Telcordia GR-20. 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 13824.

SWR™ is an intermittent bonded ribbon fiber 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™.

Features

- UV Resistant
- Full dry (gel-free) construction
- Fully dielectric
- Mid Span Access

Application

- Duct
- Aerial

Physical & Mechanical Characteristics

		144F	288F	432F	576F	864F	1152F	1728F	3456	6912F	13824F	
Cable diameter (in approx.)	mm	11.0	12.0	13.5	15.0	17.5	18.5	21.5	26.5	29.8	39.3	
	(in.)	(0.41)	(0.47)	(0.54)	(0.59)	(0.69)	(0.73)	(0.85)	(1.04)	(1.17)	(1.55)	
Cable weight (in approx.)	kg/km	85	105	135	165	215	240	300	435	640	1190	
	(lbs/1000ft)	(57)	(71)	(91)	(111)	(144)	(161)	(202)	(292)	(463)	(799)	
Fiber counts in bundle unit		-		72F			144F		288F			
Number of bundled units		-	6	8	12	8	12	24	48			
Tensile performance (*1)	Short term(*2)	N	2700									
	Long term	N	810									
Bending radius(*1)	Cyclic flexing	mm	110	120	135	150	175	185	215	265	300	393
	Cable bend	mm	110	180	203	225	263	278	332	397	450	589
Compressive Strength(*1)		N/100mm	2200									
Impact resistance(*1)		N · m	4.4									

*1. Reference standard : Telcordia GR-20

*2. Please follow the appropriate procedure that Fujikura recommends for pulling cable



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Fiber Count	Fiber Diameter	Fiber Pitch	Fiber Type	MFD	Maximum Attenuation (Cabled) (dB/km)		
					1310 nm	1383 nm (*3, 4)	1550 nm
144F to 864F	250 μm	250 μm	Ace (ITU-T G.652.D and G.657.A1)	9.2 ± 0.4 μm	≤ 0.40	≤ 0.40	≤ 0.30
144F to 1152F	250 μm	250 μm	SR15E (ITU-T G.652.D and G.657.A1)	8.6 ± 0.4 μm	≤ 0.40	≤ 0.40	≤ 0.30
1728F and 3456F	200 μm	250 μm	SR15E-200 (ITU-T G.652.D and G.657.A1)	8.6 ± 0.4 μm	≤ 0.40	≤ 0.40	≤ 0.30
6912 and 13824F	200 μm	200 μm	BIS-B-P200 (ITU-T G.652.D and G.657.A2)	8.6 ± 0.4 μm	≤ 0.40	≤ 0.40	≤ 0.30

Optical Fiber Characteristics

*3. The value after hydrogen aging in optical fiber in accordance with IEC 60793-2-50 test procedure.

*4. The value before coloring process

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 (*5, 6)

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

*5. Each block denotes "5" and each bar denotes "1".

*6. The order of block and bar for SWR may be reversed in the cable (e.g. No.6 may be  or )

Environmental Characteristics(144F~6912F)

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

Environmental Characteristics(13824F)

Temperature cycling	Installation	-20°C to 60°C (-4°F to +140°F)
	Operation	-40°C to 70°C (-40°F to +158°F)
	Transportation/Storage	-40°C to 70°C (-40°F to +158°F)

Qualifications

Governing Body	Standard Code
Telcordia	GR-20



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