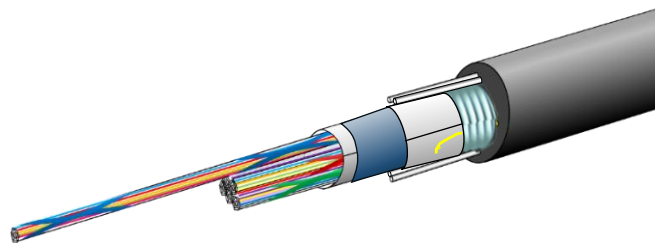
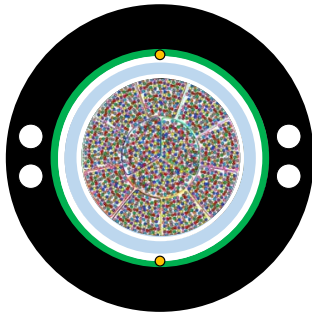


**Wrapping Tube Cable (WTC™) with 12 Fiber Spider Web Ribbon (SWR™)
Single Jacket Single Armor Outdoor WTC™ 144 – 432F**



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. It is available in fiber counts ranging from 144 to 432. 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™.

SJSA-WTC™ uses a single-jacket (sheath) structure instead of conventional double-jacket (sheath) structure. We achieved a lightweight optical fiber cable with a world-class small diameter. It can be used in environments where mechanical strength is required, such as along railway tracks, buried directly in the soil, and in rural/underground areas where there is a risk of wildlife damage by rodents. Additionally, the accessibility to optical fibers from cables by removing jacket is greatly improved compared to existing products.

Features

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

Application

- Duct
- Direct buried

Physical & Mechanical Characteristics

			144F	288F	432F
Cable diameter (in approx.)	Mm		14.0	14.5	16.0
	(in.)		(0.551)	(0.571)	(0.630)
Cable weight (in approx.)	kg/km		175	190	220
	(lbs/1000ft)		(118)	(121)	(148)
Fiber counts in bundled unit			-		72F
Number of bundled unit			-		6
Tensile performance (*1)	Short term(*2)	N	2700		
	Long term	N	810		
Bending radius(*1)	Cyclic flexing	mm	140	145	160
	Cable bend	mm	140	218	240
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

Optical Fiber Characteristics



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

Fiber Count	Fiber Diameter	Fiber Pitch	Fiber Type	MFD	Maximum Attenuation (Cabled) (dB/km)		
					1310 nm	1383 nm (*3, 4)	1550 nm
144F to 432F	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

*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

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)

Qualifications

Governing Body	Standard Code
Telcordia	GR-20



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