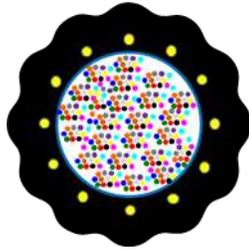


Wrapping Tube Cable (WTC™) with 12 Fiber Spider Web Ribbon (SWR™) Air Blown WTC™ 48 – 1728F



The Wrapping Tube Cable (WTC™), with Spider Web Ribbon (SWR™), is an ultra-high density outside plant cable designed specifically for fiber-to-the-home (FTTH), access markets, and hyperscale data center. Ultra-high density and a new ribbon technology called Spider Web Ribbon, WTC provides the smallest cable diameter and lowest weight, high-fiber count ribbon cable in the industry. WTC™ with SWR™ cables are available in fiber counts from 48 to 1728.

SWR™ is a 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™.

Air Blown WTC™ is designed for easy installation using air blowing installation method. These cables have a lightweight and flexible construction, allowing them to be blown through pre-installed microducts or tubes. The compressed air creates a pathway for the cable, eliminating the need for traditional cable pulling methods. This technology enables quick and efficient deployment of fiber optic networks, saving time and reducing installation costs.

Indoor/Outdoor Air Blown WTC™ offers both Air Blown WTC™ and Indoor/Outdoor WTC™ capabilities. Indoor/Outdoor WTC™ are compliant to requirements of 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

- Air blown installation
- UV Resistant
- Full dry (gel-free) construction
- Fully dielectric
- Splicing compatibility with 250µm Ribbon
- Mid Span Access
- OFNR-ST1 (*1)

Application

- Microduct installation
- Indoor and Outdoor installation (*1)
- Riser for vertical use in shafts or from floor to floor (*1)

*1. Indoor/Outdoor Air Blown WTC™ only



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Physical & Mechanical Characteristics

			48F	72F	96F	144F	192F	288F	432F	576F	864F	1728F	288F (*1)
Cable diameter (in approx.)	mm		6.1 (0.240)			6.6 (0.260)	7.3 (0.288)	8.1 (0.319)	9.7 (0.382)	10.7 (0.422)	12.3 (0.485)	16.1 (0.634)	9.8 (*3) (0.385)
	in.												
Cable weight (in approx.)	kg/km		25 (17)			30 (21)	36 (25)	45 (31)	65 (44)	80 (54)	105 (71)	190 (128)	100 (*3) (67.2)
	lbs./1000ft												
Fiber counts in bundled units			-			48F			72F			144F	-
Number of bundled units			-			4			6	8	12	12	-
Tensile performance (*2)	Short term	N	245			294	353	441	637	784	1030	1864	980 (*3)
Bending radius (*2)	Cyclic flexing	mm	122			132	146	162	194	214	246	322	196 (*3)
	Cable bend	mm	122			132	146	162	194	214	246	322	196 (*3)
Compressive Strength (*2) (*3)	N/100mm		500										
Impact resistance (*2) (*3)	N·m		1										

*2. Reference standard: IEC 60794-1-21

*3. Reference standard: ANSI/ICEA S-122-744

Optical Fiber Characteristics

Fiber Count	Fiber Diameter	Fiber Pitch	Fiber Type	MFD	Maximum Attenuation (Cabled) (dB/km)		
					1310 nm	1383 nm (*4, 5)	1550 nm
48F to 864F	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
288F (*1), 1728F		200 μm					

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

*5. 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 (*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 (*2)	-30°C to 70°C (-22°F to +158°F)
Temperature cycling (*1) (*3)	-40°C to 70°C (-40°F to +158°F)

Flame Retardant Characteristics (*1)

Vertical test	UL 1666
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