

Flame-Retardant Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®)

Flame-retardant (FR) Wrapping Tube Cable (WTC) with SpiderWeb Ribbon (SWR) is a high-density fiber optic ribbon cable intended for inside plant and indoor/outdoor network applications where riser-rated products are required. The FR-WTC-SWR incorporates the leading-edge SpiderWeb 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.

The FR-WTC-SWR product set is available in LSZH, UL 1666 Riser Rated, CPR Classification, non-armored 250 μ m SR15E fiber (288F) and 200 μ m SR15E-200 fiber (864F and 1728F) constructions.

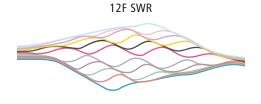
Features

- Collapsible ribbon reduces size of cable compared to other encapsulated or pliable ribbon technologies
- Design optimizes the fiber packing density making WTC-SWR cables the smallest ribbon cables without compromising robustness of the cable
- Small-diameter cable allows more optical fibers to be placed into crowded or limitedspace pathways
- Water-blocked core
- Light weight for easy handling in the field compared to traditional cables
- Completely Gel-free for reduced time to access fiber and prep for splicing

Applications

- Riser spaces within build structures
- Data Center Inter-building Connections

SWR Technology

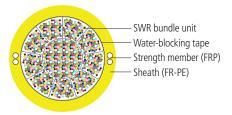


Contrahelical dual binder system



Multiple 12F SWR bundle
72F OR 144F bundles
depending on cable fiber count

Cable Components



OFNR-LS Non-armored (288F, 864F, 1728F)



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Mechanical Data—Non-Armored

		FIBER COUNT	BINDER UNIT	NOMINAL DIAMETER	WEIGHT	SHORT TERM /	INSTALLATION	LONG TERM / STORAGE /STATIC		
DESCRIPTION	EN 13501-6 CLASSIFICATION			inches (mm)	lbs/1,000 ft (kg/km)	MAX TENSILE LOAD	MIN BEND RADIUS	MAX TENSILE LOAD	MIN BEND RADIUS	
	(, ,	, ,	lbs (N)	inches (mm)	lbs (N)	inches (mm)		
250 μm SR15E FIBER										
FR-OGNM12WTZTWBE SR15Ex288C	Cca-s1a,d0,a1	288	4 X 72F	0.49 (12.5)	108 (160)	297 (1320)	7.4 (188)	89 (396)	4.9 (125)	
200 μm SR15E FIBER										
FR-OGNM12WTZTWBE SR15E-200x864C	Cca-s2,d2,a1	864	12 X 72F	0.65 (16.5)	181 (270)	297 (1320)	9.7 (248)	89 (396)	6.5 (165)	
FR-OGNM12WTZTWBE SR15E-200x1728C	Cca-s1,d0,a1	1728	12 X 144F	0.85 (21.5)	276 (410)	297 (1320)	12.7 (323)	89 (396)	8.5 (215)	

Optical Fiber

OPTICAL FIBER		FIBER			MAXIMUM ATTENUATION (CABLED)			
		PITCH	OPTICAL FIBER STANDARD	MFD	dB/km			
(FIBER COUNT)					1310 nm	1383 nm	1550 nm	
Fujikura SRI5E (288F)	250 µm	250 µm	K (ITU-T G.652D/G.657.A1)	$8.6 \pm 0.4 \mu m$	≤ 0.35 dB/km	≤ 0.35 dB/km	≤ 0.25 dB/km	
Fujikura SR15E-200 (864F, 1728F)	200 μm	250 µm	BE (ITU-T G.652.D AND G.657.A1)	$8.6 \pm 0.4 \mu m$	≤ 0.35 dB/km	≤ 0.35 dB/km	≤ 0.25 dB/km	

Stripe Ring Fiber Identification

R NO.	STRIPE RING MARKING	R NO.	STRIPE RING MARKING
1		7	
2		8	
3		9	
4		10	
5		11	
6		12	

FIBER COUNT	BINDER UNIT (BU)									RING MARKINGS				
288F	4 Binder Units	1	2	3	4									1-6 Ring Marking
864F	12 Binder Units	1	2	3	4	5	6	7	8	9	10	11	12	1-6 Killy Markilly
1728F	12 Binder Units	1	2	3	4	5	6	7	8	9	10	11	12	1-12 Ring Marking

Qualifications

GOVERNING BODY	STANDARD CODE						
UI	1666, Listed Riser						
UL	1685, Fire Propagation and Low Smoke						
ANSI/ICEA	S-83-596						
EU	EN 13501-6 (CPR)						

Contact AFL for further details.

Temperature Specifications

TEMPERATURE RANGE						
INSTALLATION $+14^{\circ}F$ to $+140^{\circ}F$ (-10°C to $+60^{\circ}C$)						
OPERATING	-4°F to +158°F (-20°C to +70°C)					
STORAGE	-40°F to +158°F (-40°C to +70°C)					