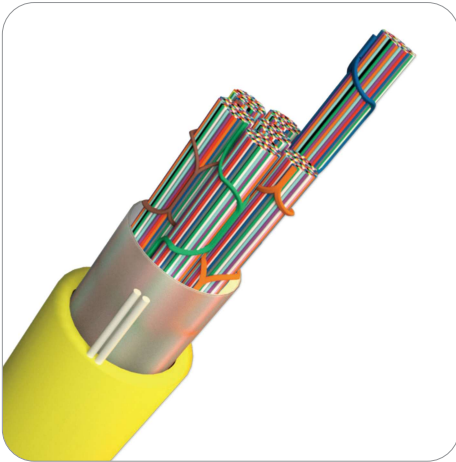




Flame-Retardant Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®)

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.

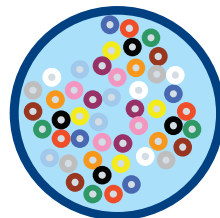
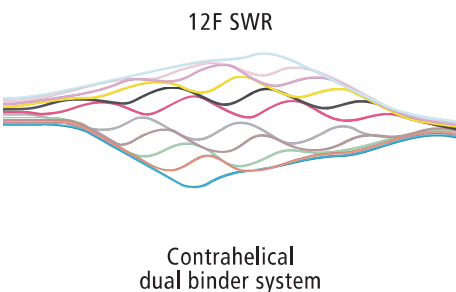
Features

- 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 limited-space 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

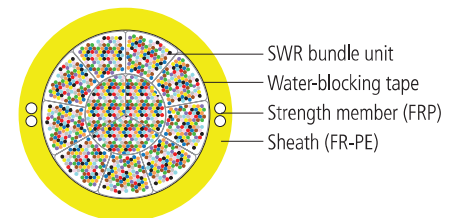
- Riser spaces within build structures
- Data Center Inter-building Connections

SWR Technology



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

Cable Components



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

continued
→

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

Mechanical Data—Non-Armored

DESCRIPTION	EN 13501-6 CLASSIFICATION	FIBER COUNT	BINDER UNIT	NOMINAL DIAMETER	WEIGHT	SHORT TERM / INSTALLATION		LONG TERM / STORAGE /STATIC	
				inches (mm)	lbs/1,000 ft (kg/km)	MAX TENSILE LOAD lbs (N)	MIN BEND RADIUS inches (mm)	MAX TENSILE LOAD lbs (N)	MIN BEND RADIUS inches (mm)
250 µm SR15E FIBER									
FR-OGNM12WTZWBE 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-OGNM12WTZWBE 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-OGNM12WTZWBE 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 COUNT)	FIBER DIA.	FIBER PITCH	OPTICAL FIBER STANDARD	MFD	MAXIMUM ATTENUATION (CABLED) dB/km		
					1310 nm	1383 nm	1550 nm
Fujikura SR15E (288F)	250 µm	250 µm	K (ITU-T G.652D/G.657.A1)	8.6 ± 0.4 µm	≤ 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 ± 0.4 µm	≤ 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								
864F	12 Binder Units	1	2	3	4	5	6	7	8	9	10	11	12
1728F	12 Binder Units	1	2	3	4	5	6	7	8	9	10	11	12

Qualifications

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

Temperature Specifications

TEMPERATURE RANGE	
INSTALLATION	+14°F to +140°F (-10°C to +60°C)
OPERATING	-4°F to +158°F (-20°C to +70°C)
STORAGE	-40°F to +158°F (-40°C to +70°C)

Contact AFL for further details.