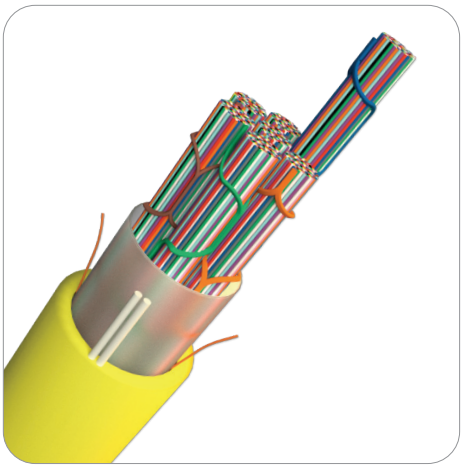


Flame-Retardant Wrapping Tube Cable (WTC) with SpiderWeb Ribbon® (SWR®)

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, non-armored 250 µm ACE fiber (288F), 250 µm SR15E fiber (288F, 864F and 1,728F), and 200 µm SR15E fiber (864F and 1728F) constructions.

Features

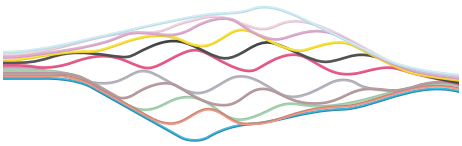
- Collapsible ribbon reduces size of cable compared to other encapsulated or pliable ribbon technologies
- Design optimizes the fiber packing density making WTC-SWR cables the smallest ribbon cables without compromising robustness of the cable
- Small-diameter cable allows more optical fibers to be placed 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

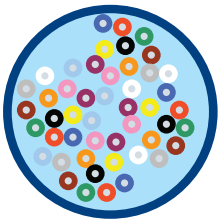
- Riser spaces within build structures
- Data Center Inter-building Connections
- Access Provider Metro Rings
- Service Provider FTTx
- Cable TV Subscriber Networks
- Metro Rail Track-side Network Links
- Suitable for Aerial Lashing, Pulled-in-duct, Air-Jetted-in-Duct
- Campus LAN

SWR Technology

12F SWR



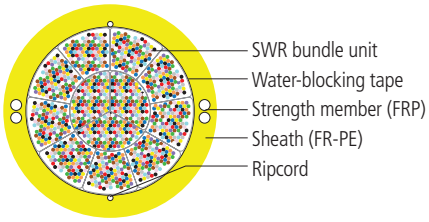
Contrahelical
dual binder system



Multiple 12F SWR bundle

72F OR 144F bundles
depending on cable fiber count

Cable Components



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

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 ACE FIBER									
FR-OGNM12WTZTWBE ACEx288C	Cca-s1a, d2, a1	288	4 X 72F	0.49 (12.5)	108 (160)	297 (1320)	10 (250)	89 (396)	8 (188)
250 µm SR15E FIBER									
FR-OGNM12WTZTWBE SR15Ex288C	Cca-s1a, d2, a1	288	4 X 72F	0.49 (12.5)	108 (160)	297 (1320)	10 (250)	89 (396)	8 (188)
FR-OGNM12WTZTWBE SR15Ex864C	Cca-s2, d0, a1	864	12 X 72F	0.71 (18.0)	208 (310)	297 (1320)	14 (360)	89 (396)	11 (270)
FR-OGNM12WTZTWBE SR15Ex1728C	Cca-s2, d0, a1	1728	12 X 144F	0.93 (23.5)	329 (490)	297 (1320)	19 (470)	89 (396)	14 (353)
200 µm SR15E FIBER									
FR-OGNM12WTZTWBE SR15E-200x864C	Cca-s2, d2, a1	864	12 X 72F	0.65 (16.5)	181 (270)	297 (1320)	13 (330)	89 (396)	10 (248)
FR-OGNM12WTZTWBE SR15E-200x1728C	Cca-s1, d0, a1	1728	12 X 144F	0.87 (22.0)	276 (410)	297 (1320)	18 (440)	89 (396)	13 (330)

Optical Fiber

OPTICAL FIBER (FIBER COUNT)	FIBER BUFFER	OPTICAL FIBER STANDARD	MFD	MAXIMUM ATTENUATION (CABLED) dB/km		
				1310 nm	1383 nm	1550 nm
Fujikura ACE (288F)	250 µm	9 (ITU-T G.652D/G.657.A1)	9.2 ± 0.4 µm	0.4 dB/km	0.4 dB/km	0.3 dB/km
Fujikura SRI5E (288F, 864F, 1728F)	250 µm	K (ITU-T G.652D/G.657.A1)	8.6 ± 0.4 µm	0.4 dB/km	0.4 dB/km	0.3 dB/km
Fujikura SR15E (864F, 1728F)	200 µm	BE (ITU-T G.652.D AND G.657.A1)	8.6 ± 0.4 µm	0.4 dB/km	0.4 dB/km	0.3 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	1-12 Ring Marking
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.