

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

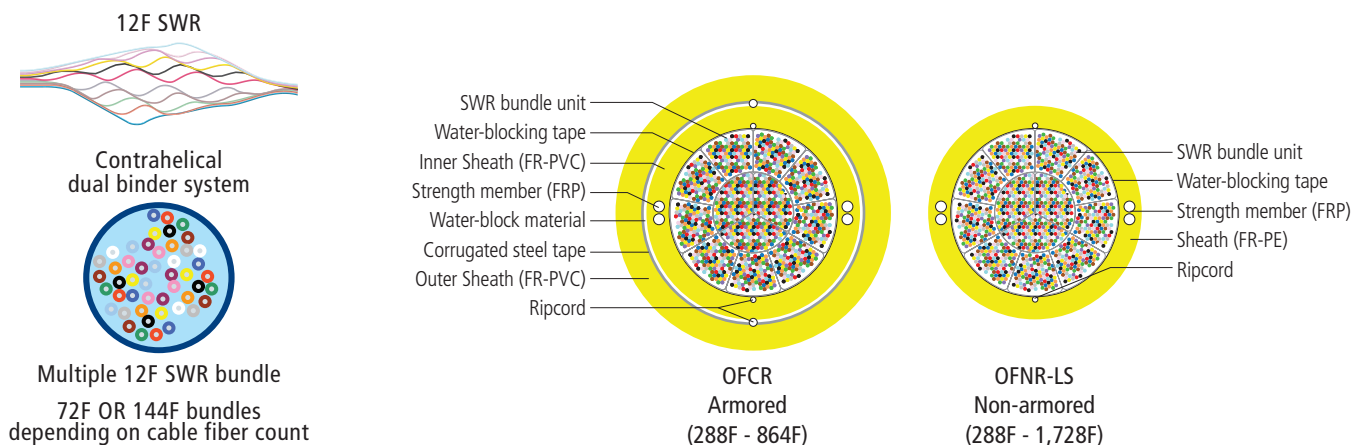
Flame-retardant (FR) Wrapping Tube Cable (WTC) with SpiderWeb Ribbon (SWR) is a high-density fiber optic ribbon cable intended for inside plant and indoor/outdoor network applications where riser-rated products are required. The FR-WTC-SWR incorporates the leading-edge SpiderWeb Ribbon technology in 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 (288F up to 1,728F) and FR-PVC double-jacket single-armored (288-F up to 864F) constructions.

Features

- SpiderWeb Ribbon**
 Collapsible ribbon reduces size of cable compared to other encapsulated or pliable ribbon technologies
- Wrapping Tube Package**
 Wrapping Tube Cable design optimizes the fiber packing density making WTC-SWR cables the smallest ribbon cables without compromising robustness of the cable
- OFNR Riser Rating**
 Can be routed within designated riser spaces within build structures
- CPR Certified (Non-armored)**
 Suitable for use in applications requiring European Union (EU) flame, smoke and toxicity classification
- Small Diameter**
 Because of the smaller diameter, more optical fibers can be placed into crowded or limited-space pathways
- Water-blocked Core**
 Can be routed in outside pathways such as duct back or covered cable trays
- Light weight**
 Cables are more easily handled in the field compared to traditional cables
- Completely Gel-free**
 Reduced fiber access and prep time for splicing

SWR Technology



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Temperature Range

	Non-Armored	Armored
Operating	-20°C to +70°C	-40°C to +70°C
Storage	-40°C to +70°C	-40°C to +70°C
Installation	-10°C to +60°C	-10°C to +60°C

Standards Compliance

Non-Armored	Armored
• UL 1666, Listed Riser	• UL 1666, Listed Riser
• ANIS/ICEA S-83-596	• UL 1685, Fire Propagation and Low Smoke
• EN 13501-6 (CPR)	• ANSI/ICEA-S-83-596

Mechanical Data—Non-Armored

DESCRIPTION	EN 13501-6 CLASSIFICATION	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
			INCHES (MM)	LBS/1,000 FT (KG/KM)	SHORT TERM LBS (N)	LONG TERM LBS (N)	SHORT TERM INCHES (MM)	LONG TERM INCHES (MM)
LWSR-288-9-C-72-4-00N1D	Cca-s1a, d0, a1	288	0.512 (13.0)	127 (190)	296 (1320)	89 (396)	6 (13)	6 (13)
LWSR-432-9-C-72-6-00N1D	B2ca-s1, d0, a1	432	0.591 (15.0)	161 (240)	296 (1320)	89 (396)	6 (15)	6 (15)
LWSR-864-9-C-72-12-00N1D	Cca-s2, d0, a1	864	0.728 (18.5)	228 (340)	296 (1320)	89 (396)	8 (19)	8 (19)
LWSR-1728-K-C-144-12-00N1D	Cca-s2, d0, a1	1728	0.945 (24.0)	355 (530)	296 (1320)	89 (396)	10 (24)	10 (24)

Mechanical Data—Double Jacket Single Armor

DESCRIPTION	FIBER COUNT	NOMINAL DIAMETER	WEIGHT	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
		INCHES (MM)	LBS/1,000 FT (KG/KM)	SHORT TERM LBS (N)	LONG TERM LBS (N)	SHORT TERM INCHES (MM)	LONG TERM INCHES (MM)
LWSV-288-9-C-72-4-10S1D	288	0.768 (19.5)	295 (440)	600 (2670)	180 (801)	12 (30)	8 (20)
LWSV-432-9-C-72-6-10S1D	432	0.827 (21.0)	329 (490)	600 (2670)	180 (801)	13 (32)	8 (21)
LWSV-864-9-C-72-12-10S1D	864	0.965 (24.5)	422 (630)	600 (2670)	180 (801)	15 (37)	10 (25)

Optical Fiber

FIBER COUNT	FIBER DESIGNATOR	MFD	MAXIMUM ATTENUATION (CABLED) dB/km		
			1310 NM	1383 NM	1550 NM
144, 288, 432, 576, 864	9 (ITU-T G.652D/G.657.A1)	9.2 ± 0.4 μm	≤0.40	≤0.40	≤0.30
1728	K (ITU-T G.652D/G.657.A1)	8.6 ± 0.4 μm	≤0.40	≤0.40	≤0.30

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
144F	No Binder Unit	1-12 Ring Marking
288F	4 Binder Units	1-6 Ring Marking
432F	6 Binder Units	
576F	8 Binder Units	
864F	12 Binder Units	
1728F	12 Binder Units	1-12 Ring Marking