

Wrapping Tube Cable (WTC) with SWR®

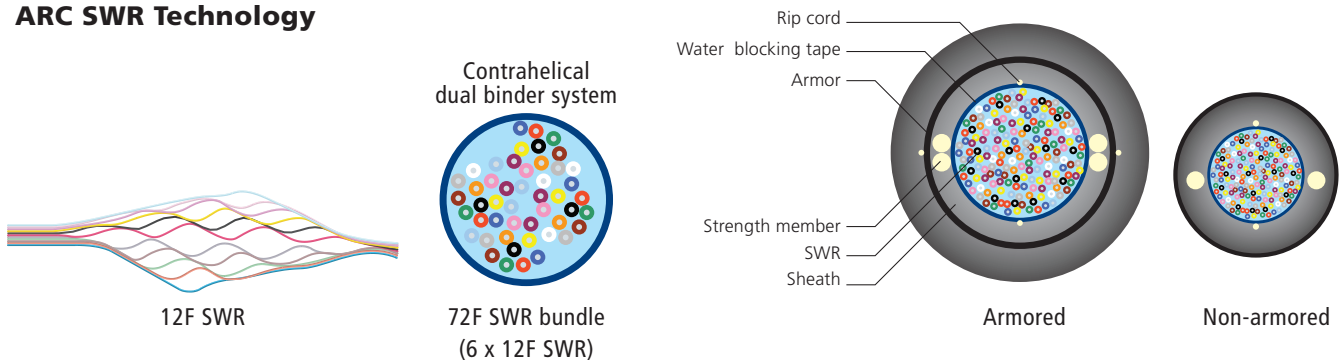
Wrapping Tube Cable (WTC), with SpiderWeb® Ribbon (SWR), is an ultra-high density outside plant cable designed specifically for fiber-to-the-home (FTTH) or access markets. It is compliant with the latest issue of the outside plant cable standard, Telcordia GR-20. With an ultra-high density and a new ribbon technology called SpiderWeb Ribbon, WTC provides the smallest cable diameter and lowest weight, high-fiber count ribbon cable in the industry. With fiber counts from 144 fibers to 1,728 fibers, the cable is available in dielectric or double jacket single armor.

SWR is a bonded fiber ribbon design allowing for either a highly efficient ribbon splicing or an individual fiber breakout splicing process. This flexibility allows for a single cable design to cover a diverse set of applications from access networks to high-fiber count mass fusion splicing. With the ability to roll and conform, the SWR provides for ultra-high density packaging in the WTC.

Features

- Access Ready Construction (ARC)**
 Completely gel-free construction with easy-to-access and identify optical fiber circuits.
- Spider Web Ribbon (SWR) optical fiber technology**
 Easily ribbonized for mass fusion splicing. SWR is compacted and routed like individual fibers. Ideal for organizing slack loops in splice enclosures as there is no preferential bending of ribbon.
- Significantly higher fiber density compared to traditional ribbon cables**
 Offers ability to expand capacity of existing pathways and allows use of smaller, lower cost duct systems.
- Smaller cable diameters and cable weights**
 Means longer reel lengths that allow for lower scrap rates, easier handling of reels at the site and reduced transportation costs.
- Completely dry water-blocking technology**
 Reduces time required to prep cable-end and mid-span access resulting in labor savings.
- Compact ribbon bundles**
 Reduces enclosure/splice tray size requirements allowing for smaller telecommunications space allocation.
- Armored and non-armored packages**
 Supports all the standard cable deployment options typically found in the OSP environment including, duct, direct buried and aerial.
- Fully qualified to Telcordia GR-20**
 Provides assurance that the cable will support optical fiber network transport functions now and into the future.

ARC SWR Technology



Wrapping Tube Cable (WTC) with SWR®

Temperature Range

Operating -40°C to +70°C
 Storage -40°C to +70°C
 Installation -30°C to +40°C

Mechanical Data—Non-Armored

DESCRIPTION	FIBER COUNT	NOMINAL DIAMETER	WEIGHT LBS/1,000 FT (KG/KM)	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
		INCHES (MM)		SHORT TERM LBS (N)	LONG TERM LBS (N)	SHORT TERM INCHES (CM)	LONG TERM INCHES (CM)
LWSE-144-9-C-144-1-00N1D	144	0.406 (10.3)	54 (80)	360 (1600)	108 (480)	10 (24)	5 (12)
LWSE-288-9-C-72-4-00N1D	288	0.461 (11.7)	68 (101)	600 (2700)	182 (810)	10 (24)	5 (12)
LWSE-432-9-C-72-6-00N1D	432	0.524 (13.3)	88 (130)	600 (2700)	182 (810)	10 (27)	6 (14)
LWSE-576-9-C-72-8-00N1D	576	0.583 (14.8)	108 (160)	600 (2700)	182 (810)	12 (30)	7 (15)
LWSE-864-9-C-72-12-00N1D	864	0.677 (17.2)	145 (217)	600 (2700)	182 (810)	14 (35)	8 (18)
LWSE-1152-K-C-144-8-00N1D	1152	0.720 (18.3)	161 (239)	600 (2700)	182 (810)	15 (38)	8 (19)
LWSE-1728-K-C-144-12-00N1D	1728	0.870 (22.1)	228 (330)	600 (2700)	182 (810)	18 (46)	9 (22)

Mechanical Data—Double Jacket Single Armor

DESCRIPTION	FIBER COUNT	NOMINAL DIAMETER	WEIGHT LBS/1,000 FT (KG/KM)	MAXIMUM TENSILE LOAD		MINIMUM BEND RADIUS	
		INCHES (MM)		SHORT TERM LBS (N)	LONG TERM LBS (N)	SHORT TERM INCHES (CM)	LONG TERM INCHES (CM)
LWSE-144-9-C-144-1-10S1D	144	0.583 (14.8)	134 (198)	360 (1600)	108 (480)	12 (30)	7 (15)
LWSE-288-9-C-72-4-10S1D	288	0.669 (17.0)	168 (248)	600 (2700)	182 (810)	14 (36)	7 (17)
LWSE-432-9-C-72-6-10S1D	432	0.732 (18.6)	198 (292)	600 (2700)	182 (810)	16 (38)	8 (19)
LWSE-576-9-C-72-8-10S1D	576	0.767 (19.5)	225 (333)	600 (2700)	182 (810)	18 (40)	9 (20)
LWSE-864-9-C-72-12-10S1D	864	0.886 (22.5)	275 (408)	600 (2700)	182 (810)	18 (46)	9 (23)
LWSE-1152-K-C-144-8-10S1D	1152	0.909 (24.7)	304 (478)	600 (2700)	182 (810)	18 (46)	10 (25)
LWSE-1728-K-C-144-12-10S1D	1728	1.094 (27.8)	400 (595)	600 (2700)	182 (810)	22 (57)	11 (28)

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
1152 - 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 MARKING OR RIBBONS
24F	No Binder Unit	1-2 Ring Marking
48F		1-4 Ring Marking
72F		1-6 Ring Marking
96F		1-8 Ring Marking
144F		1-12 Ring Marking
288F	4 Binder Units	1-6 Ring Marking
432F	6 Binder Units	
576F	8 Binder Units	
624F	9 Binder Units	
720F	10 Binder Units	
864F	12 Binder Units	
1152F	8 Binder Units	
1728F	12 Binder Units	