

OUTDOOR/WTC

Wrapping Tube Cable with SWR®

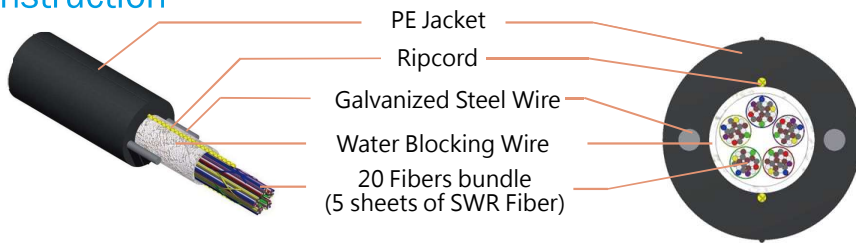
* Content is subject to change without notice.

OUTDOOR/WTC

Product Information

* Content is subject to change without notice.

Construction



Description

Wrapping Tube Cable (WTC), with SpiderWeb Ribbon® (SWR), is an ultra-high density outside plant cable designed for 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. The WTC-SWR cable is available up to 300 fibers. 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 and Benefits

- Access Ready Construction (ARC)
- SpiderWeb Ribbon (SWR) optical fiber technology
- Smaller cable diameters and cable weights
- Compact ribbon bundles
- Fully qualified to Telcordia GR-20

Specification

Fiber Count	24	48	100	200	300
Fiber Type	G657A1 4-Fiber SWR				
Fiber Bundle	No Fiber Bundle	20 Fibers/Bundle			
Strength member Material	Water Blocking Tape				
Inner Tube wrapping	Galvanized Steel Wire				
Outer Jacket Material	PE				
Outside Diameter (appr.): mm	7.5	8.0	9.0	11.0	12.0
Cable Weight (appr.): kg/m	0.050	0.055	0.065	0.095	0.110
Max. Tensile Strength: kgf	80	90	100	150	170
Min. Bending Radius	Loaded:	20 times of cable diameter			
	Unloaded:	10 times of cable diameter			

Application

- 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

Color Code

SWR Color Code	1 Blue-White- Brown-Slate	2 Yellow-White- Brown-Slate	3 Green-White- Brown-Slate	4 Red-White- Brown-Slate	5 Violet-White- Brown-Slate	6 Blue-White- Brown-Rose
----------------	---------------------------------	-----------------------------------	----------------------------------	--------------------------------	-----------------------------------	--------------------------------

7 Yellow-White- Brown-Rose	8 Green-White- Brown-Rose	9 Red-White- Brown-Rose	10 Violet-White- Brown-Rose	11 Blue-White- Brown-Aqua	12 Yellow-White- Brown-Aqua
----------------------------------	---------------------------------	-------------------------------	-----------------------------------	---------------------------------	-----------------------------------

Bundle Color Code (Bundle binding Color Tapes)	1 Blue-Blue	2 Yellow-Yellow	3 Green-Green	4 Red-Red	5 Violet-Violet	6 Blue-White
---	----------------	--------------------	------------------	--------------	--------------------	-----------------

7 Yellow-White	8 Green-White	9 Red-White	10 Violet-White	11 Blue-Brown	12 Yellow-Brown	13 Green-Brown	14 Red-Brown	15 Violet-Brown
-------------------	------------------	----------------	--------------------	------------------	--------------------	-------------------	-----------------	--------------------

Fiber Specification

Fiber Attenuation SM	1310nm ≤ 0.4 dB/km
	1550nm ≤ 0.3 dB/km
PMD	< 0.2 ps/km ^{1/2}
Mode-Field Dia. G.657A	1310 nm: 8.6 ~ 9.4 μm, ± 0.4 μm
	1550 nm: 9.6 ~ 10.7 μm ± 0.7 μm
Cladding Dia.	125 μm ± 1 μm
Coating Dia.	250 μm ± 15 μm

Mechanical Specification

Tensile Strength	TIA/EIA-455-33	Singlemode ≤ 0.2
Crush Resistance	TIA/EIA-455-41	Singlemode ≤ 0.2
Cycle Flexing	TIA/EIA-455-104	Singlemode ≤ 0.2
Impact Resistance	TIA/EIA-455-25	Singlemode ≤ 0.2
Cable Twist	TIA/EIA-455-85	Singlemode ≤ 0.2

Environmental Condition

Temperature Range	-30°C to + 70°C
-------------------	-----------------

Ordering Information

Cable Type	WTC
Fiber Count	24, 48, 100, 200 or 300