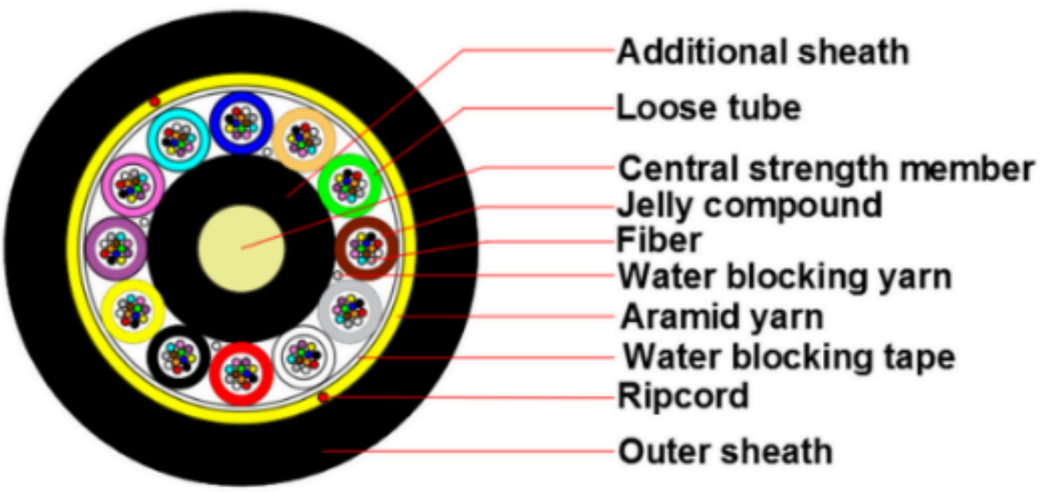
FIBRA ADSS 96/144 F
SPAN 80

OUTDOOR

LifeFiber
REDES FTTH



CABLE PARAMETERS

No. of Fiber		12	24	48	96	144
Span		250M				
Fiber Model		G.652D				
Design (Strength Member + Tube & Filler)		1+6			1+8	1+12
Central Strength Member	Material	FRP				
	Diameter（±0.05）mm	2.1			2.5	3.5
Additional Sheath	Material	-			PE	
	Diameter（±0.1）mm	-			3.4	6.0
Loose Tube	Material	PBT				
	Diameter（±0.06）mm	2.0				
	Thickness（±0.03）mm	0.32				
	Fiber/Tube	2	6	12		
	No.	6	4	4	8	12
Filler Rope	Material	LDPE				
	Diameter（±0.05）mm	-	2.0	2.0	-	
	No.	-	2	2	-	
Water Blocking Material		Water Blocking Yarn & Water Blocking Tape				
Strength Member（Material）		Aramid Yarn				
Rip Cord	Material	Nylon				
Outer Sheath	Material	MDPE				
	Thickness（±0.1）mm	1.7				
Cable Diameter（±0.2）mm		10.2			11.5	14.0
Cable Weight（±10%）kg		78			100	150

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Tensile Strength		4000N
Crush Resistance		1000 (N/100mm)
Min. bending radius	Without Tension	12.5×Cable-φ
	Under Maximum Tension	25.0×Cable-φ
Temperature range (℃)	Installation	-20~+60
	Transport &Storage	-40~+70
	Operation	-40~+70

FILLER AND LOOSE TUBE COLORS

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red	Black	Yellow	Violet	Pink	Aqua

PROPERTIES

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	 ≤ 0.35 dB/km ≤ 0.35 dB/km ≤ 0.21 dB/km ≤ 0.25 dB/km
Point discontinuity	≤ 0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm^2.km)
PMD_Q (Quadrature average*)	≤0.2 ps/km$^{1/2}$
Mode field diameter @ 1310 nm	9.2±0.4 um
Core / Clad concentricity error	≤ 0.6um
Cladding diameter	125.0 ± 1 um
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10 um
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km

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MECHANICAL AND ENVIRONMENTAL TESTING

Item	Test Method	Acceptance Condition
Tensile Strength IEC 60794-1-2-E1	- Load: 4000N - Length of cable: about 50m	- Loss change ≤ 0.1 dB @1550 nm - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load:1000N/100mm - Load time: 1min	- Loss change ≤ 0.1dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change ≤ 0.1dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test IEC 60794-1-2-F4	- Temperature step: +20℃→-40℃→+70℃ →+20℃ - Time per each step: 12 hrs - Number of cycle: 2	- Loss change ≤ 0.1 dB/km@1550 nm - No fiber break and no sheath damage.

MARKING

THE OPTICAL FIBER CABLE SHALL HAVE SEQUENTIALLY NUMBERED LENGTH MARKING AT INTERVALS OF APPROXIMATELY 1 METER. THE STARTING NUMBER OF ORDERING LENGTH FOR ANY COIL SHALL BEGIN WHIT ZERO METER. THE ACCURACY OF THE MEASUREMENT OF LENGTH MARKING SHALL BE HELD WITHIN THE LIMITS OF ±1%.

A) MANUFACTURER'S NAME
B) TYPE OF WIRE
C) YEAR AND MONTH OF MANUFACTURE
D) LENGTH MARKING EACH METER ALONG THE WIRE