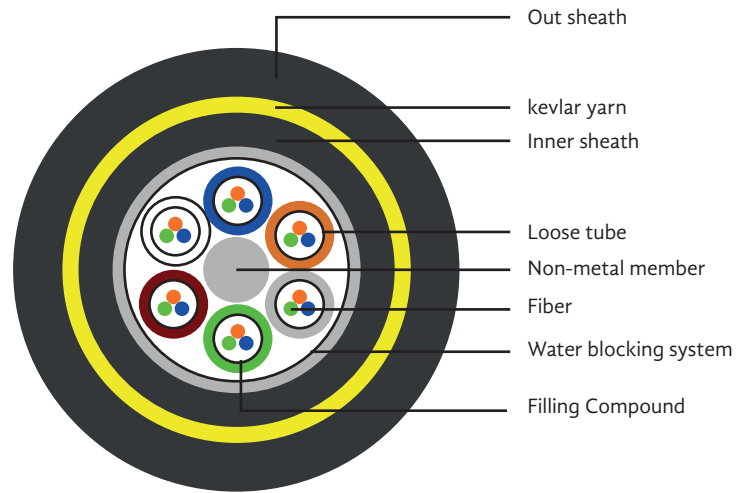


## CABLE FIBRA ÓPTICA TRIMERX ADSS VANO 200M



### DESCRIPTIONS

ADSS cable is loose tube stranded. Fibers, are positioned into a loose tube made of high modulus plastics. The tubes are filled with a water-resistant filling compound. The tubes (and fillers) are stranded around a FRP (Fiber Reinforced Plastic) as a non-metallic central strength member into a compact and circular cable core. After the cable core is filled with filling compound, it is covered with thin PE (polyethylene) inner sheath. After stranded layer of aramid yarns are applied over the inner sheath as strength member, the cable is completed with PE or AT (anti-tracking) outer sheath.

### APPLICATIONS

- The actual status of overhead power lines is taken into full consideration when ADSS cable is being designed.
- For overhead power lines under 110kV, PE outer sheath is applied.
- For power lines equal to or over 110kV, AT outer sheath is applied.
- The dedicate design of aramid quantity and stranding process can satisfy the demand on various spans.

### CHARACTERISTICS

- Can be installed without shutting off the power.
- Light weight and small diameter reducing the load caused by ice and wind and the load on towers and backprops.
- Large span lengths and the largest span is over 1000m.
- Good performance of tensile strength and temperature.
- The design life span is 30 years.

### CABLE CONSTRUCTION

ITEM	DESCRIPTION	
Number of fiber	48cores	
Filling rope	2	
Moisture Barrier	Water blocking system	
Central strength member	material	FRP
	diametro	2.0 mm
Inner sheath	material	PE
Loose tube	material	PBT
	diámetro	Ø2.0/Ø1.4(outer/inner)
Tube-filling	material	Tube filling compound
Cable filling	material	Cable filling compound
Outer sheath	material	Min 150 MΩ/Km
	Thickness	2.0±0.2mm

## CABLE FIBRA ÓPTICA TRIMERX ADSS VANO 200M

### CABLE CONSTRUCTION

ITEM	CABLE DIAMETER	NET WEIGHT
2cores to 60cores	12±0.5mm	140kg/km
Installation Temperature range	-15 - +60	2
Operation and transport temperature	-40-+70	
Min Bending Radius(mm)	operation	240mm
	installation	390mm
Extra load	0.5%-0.7%	
Ice	5mm	
Wind speed	30m/s	
Amoring	Kevlar yarn	
Overall cable diameter	12.2±0.3mm	
Cable weight per km	132.0 kg/km	
Outer sheath material	PE	
Outer sheath thickness	2.0±0.2mm	
Inter sheath material	PE	
Inter sheath thickness	1.0±0.1mm	
Mechanical reinforcement part	Kevlar yarn/ Area 9.3mm <sup>2</sup>	
Section area	121 mm <sup>2</sup>	
Fiber model	G.652 D	
Rated tension strength (RTS)	17.5 kn	
Max. allowed tension (MAT)	7kn	
Annual average running tension (EDS)	4.3kn	
Young's modulus	13 kn/mm <sup>2</sup>	
Coefficient of thermal expansion	5.3 10-6/°C	

### FIBER CHARACTERISTICS

FIBER STYLE	UNIT	SM G652D	MM 50/125	MM 62.5/125
condition	nm	1310/1550	850/1300	850/1300
attenuation	dB/km	≤0.34/0.20	≤3.0/1.0	≤3.0/1.0
Dispersion	1310nm	Ps/(nm*km)	≤18	--
	1550nm	Ps/(nm*km)	≤22	--
Bandwidth	850nm	MHZ. KM	....	≥400
	1300nm	MHZ. KM	....	≥800
Zero dispersion wavelength	nm	≥1302,	--	--
		≤1322	--	--
Zero dispersion slope	nm	≤0.091	--	--
PMD Maximum Individual Fiber		≤0.2	--	--
PMD Design Link Value	Ps(nm <sup>2</sup> *km)	≤0.08	--	--
Fiber cutoff wavelength c	nm	≥1180,≤1330	--	--
Fiber cutoff wavelength cc	nm	≤1260	--	--
MFD	1310nm	um	9.2±0.4	--
	1550nm	um	10.4±0.8	--
Numerical Aperture(NA)		--	0.200±0.015	0.275±0.015
Step (mean of bidirectional measurement)	dB	≤0.05	≤0.10	≤0.10
Irregularities over fiber length andpoint discontinuity	dB	≤0.05	≤0.10	≤0.10
Difference backscatter coefficient	dB/km	≤0.03	≤0.08	≤0.10
Attenuation uniformity	dB/km	≤0.01	--	--
Core diameter	um	--	50±1.0	62.5±2.5
Cladding diameter	um	125.0±0.1	125.0±0.1	125.0±0.1
Cladding non-circularity	%	≤1.0	≤1.0	≤1.0
Coating diameter	um	242±7	242±7	242±7
Coating/chaffinch concentricity error	um	≤12.0	≤12.0	≤12.0
Coating non circularity	%	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error	um	≤0.5	≤1.5	≤1.5
Curl(radius)	um	≤4	--	--

### ORDEN DE PEDIDO

CÓDIGO	DESCRIPCIÓN
TEFOCACE1476	TX CABLE FO SM 48F ADSS VANO 200M BL