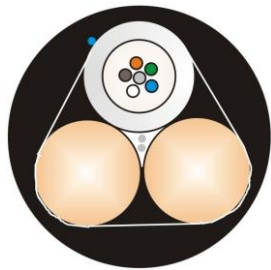


# Outdoor Self Supported Central Tube Cable

## CABLE DESIGN

ABNT NBR 14160 / ANATEL: ATO n° 948



Not to Scale – Schematic drawing

- **Loose Tube:** Loose tube technology impregnated with thixotropic, water-repellent gel containing up to 12 optical fibers.
- **Construction:** The loose tube is assembled in reverse SZ twist together with the traction elements
- **Moisture Protection:** Core protected with expandable (dry) hydro material
- **Dielectric Strength Members :** 2 reinforced fiberglass threads
- **External Jacket:** External cover in black thermoplastic UV resistant and weather or flame retardant (RC) protection, containing rip cord

These cables are designed for self-supporting aerial installation in spans of up to 80 meters, in urban and rural areas.

## TECHNICAL INFORMATION – NR JACKET

Span		80 m	120 m
<b>FO Quantity</b>		02 to 12	02 to 12
<b>Diameter</b>	mm	7.2	8.4
<b>Cable weight</b>	kg/km	44	69

Cable OD can change +/- 0,5mm.

## TECHNICAL INFORMATION – RC JACKET

Span		80 m	120 m
<b>FO Quantity</b>		02 to 12	02 to 12
<b>Diameter</b>	mm	7.2	8.4
<b>Cable weight</b>	kg/km	58	82

OD can change +/- 0,5mm.

Please refer to the installation manual and recommendations before handling.

## TECHNICAL CHARACTERISTICS

<b>Jacket Thickness</b>	mm	1.4 (min)	
<b>Minimum Bend Radius</b>	mm	During Installation 20 x OD	Installed 10 x OD
<b>Temperature</b>	°C	Operating -20 a +65	

## MAIN CHARACTERISTICS

Characteristic	Method	Requirement	Value
Maximum Operating Tensile Load	NBR 13512	Span 80m: 1.5 x Cable Weight x Km Span 120m: 2.0 x Cable Weight x Km	No fiber strain SM 0.1dB
Compression	NBR 13507	1 x Cable Weight x Km (Min 1,000N / Max 2,200N)	SM 0.1dB
Impact	NBR 13509	25 cycles, P = NBR 14160	No fiber break
Torsion	NBR 13513	+ - 180°, 50 cycles (200mm)	SM 0.1dB
Bending Flex	NBR 13518	R = 6 x OD, 2kg, 50 cycles	SM 0.1dB
Bending	NBR 13508	R = 6 x OD, 5 cycles	SM 0.1dB
Thermal Cycle	NBR 13510	-20 a +65°C	SM 0.05dB /km
Moisture penetration	NBR 9136	Sample 1m, Water column 1m	No leak after 24 hours

\* Attenuation Increase or Variation.

## OPTICAL CHARACTERISTICS

Attenuation	nm	Requirement	Typical
SM (G.652.D)	1310 / 1383 / 1550	dB/km	0.38 / 0.38 / 0.25

Other attenuation values on request. Other characteristics according to the corresponding optical fiber catalog.

## IDENTIFICATION

### Fiber Colors

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

### Loose Tube Color

No.	1
Color	Natural

### Jacket Color:

Black.

## EXTERNAL PRINT LEGEND

The external jacket legend is recorded at 1 meter intervals as shown below:

**<COMMSCOPE> <Year> <CFOA-XX-ASUY Y-S ZZFO WW>  
<ANATEL> <ANATEL CODE> <LOT> <Metric Marcation>**

**CFOA** = Acrylate coated optical fiber

**XX** = Optical fiber type (SM)

**ASUY Y** = Self Support Cable Single Tube (Span up to 120 metros)

**S** = Dry Core

**ZZFO** = Fiber quantity (02 to 12FO)

**WW** = External Jacket (NR = Normal; RC = Fire Retardant)

## **LOGISTICS**

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### **Packing**

Wooden reel with rotection

### **Reel Lenght**

Standard reels of 4 km, tolerance -1% / + 3%. Other lengths on request

## **ANATEL HOMOLOGATION**

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XXXXXXXXXXXX - CFOA-SM-ASU-120-S-12FO NR e RC