

306-STA5XX-Y000 Fiber Optic Cable 50/125 Multimode Outdoor Steel Armoured







DECRIPTION

The fibers, either single mode or multimode type, are positioned in a loose tube made of a high modulus plastic. The tubes are filled with a waterresistant filling compound. A steel wire, sometimes sheathed with polyethylene (PE) for cable with high fiber count, locates in the center of the core as a metallic strength member. Tubes (and fillers) are stranded around the strength member into a compact and circular cable core. A steel tape, with Plastic coating on each side (PSP), is longitudinally applied over the cable core, which is filled with filling compound to protect if from water ingress. The cable is completed with a Polyethylene (PE) sheath.

APPLICATION

This cable is suitable for Outdoor Direct Burial, Tunnel and Duct installation in harsh environment. The armouring provides rodent and termite protection and the PE Sheath provides UV and Chemical/Oil resistance.

STANDARDS

EN 50173: 2002 category OM1/OM2, ISO/IEC 11801: category OM1/OM2, ANSI/TIA/EIA 568.2: 2002, ANSI/TIA/EIA 568.3: 2002, ANSI X3.166-1990, IEC 9314-3, IEC 60793-2-10, ITU Recommendation G652, G652A/B/C/D, IEC 60793-2-50, IEC 60794-1, Type 1/B1.3/B4.

CHARACTERISTICS

- Accurate fiber excess length ensures good mechanical and temperature performance.
- High strength loose tube that is hydrolysis resistant and special tube filling compound ensure a critical protection of fiber.
- Specially designed compact structure is good at preventing loose tube from shrinking.
- · Crush resistance and flexibility.
- Steel Tape (PSP) enhances the cable crush resistance, impact resistance and moisture proof.
- Loose tubes are filled with filling compound to ensures tubes are watertight.
- 100% cable core filling ensures cable is watertight.

Physical Properties

Steel Tape (PSP)

Steel Tape Thickness (mm)

0.15 + 0.05 Plastic coating on each side

Nom. Sheath Thickness (mm)

Nom. Sheath Thickness (mm)

Loose Tube Diameter & Thickness

Loose Tube Diameter (mm)	Loose Tube Thickness (mm)
1.9	0.3

Crush Resistance

Crush Resistance (N/100mm)					
Long Term	Short Term				
300	1000				



Tensile Strength

Tensile Strength (N)						
2~30 Cores	Long Term	600				
	Short Term	1500				
32~144 Cores	Long Term	1000				
	Short Term	3000				

Bending Radius

Bending Radius (mm)					
Static	Dynamic				
10 x Outer Diameter	20 x Outer Dlameter				

Operating & Storage Temperature

Operating Temp.	Storage Temp.
-40°C to +70°C	-40°C to +70°C

CABLE PROPERTIES

O/IDEE I II	ELTROI ERIES									
Fiber Count	No. of Tubes	No. of Fillers	Steel Wire Ø (mm)	PE Sheath Steel Wire (mm)	Cable Ø (mm)	Cable Weight (kg/km)				
2~6	1	4	1.6	-	10.2	116				
8~12	2	3	1.6	-	10.2	116				
14~18	3	2	1.6	-	10.2	116				
20~24	4	1	1.6	-	10.2	116				
26~30	5	0	1.6	-	10.2	116				
32~36	6	0	2.25	-	10.6	129				
38~48	4	1	1.8	-	11.2	141				
50~60	5	0	1.8	-	11.2	141				
62~72	6	0	2.25	2.6	12.0	159				
74~84	7	1	2.25	4.2	13.6	209				
86~96	8	0	2.25	4.2	13.6	209				

Fibers Colour

Fiber No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	Natural	Red	Black	Yellow	Violet	Pink	Aqua
Ooloui												

Losse Tubes Colour

Fiber No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	Blue	Orange	Green	Brown	Grey	Natural	Red	Black	Yellow	Violet	Pink	Aqua
Golodi												



OPTICAL PROPERTIES

Attenuation @20°C

Attenuation					
@ 850 nm	@ 1300 nm				
≤ 3.0 dB/km	≤ 1.0 dB/km				

Bandwidth

Bandwidth (Class B)					
@ 850 nm	@ 1300 nm				
≥ 400 Mhz-km	≥ 800 Mhz-km				

Numerical Aperture

Numerical Aperture
0.200 ± 0.015

Group Index Of Refraction

Group Index Of Refraction (Neff)					
@ 850 nm	@ 1300 nm				
1.482	1.477				

Part Number

306-STA5XX-Y000	Fiber Optic Cable 50/125µ Multimode Outdoor Steel Armoured

Product Family

306-STA6XX-Y000	Fiber Optic Cable 62.5/125µ Multimode Outdoor Steel Armoured
306-STA7XX-Y000	Fiber Optic Cable 9/125µ Single Mode Outdoor Steel Armoured

Note:

- 1. Substitute XX is number of fiber cores.
- 2. Multimode G.651 Class A, Single mode G.652 (Class C and D) and G.655 fiber are available upon request.

© Alantek Communications USA All Right Reserved.

Alantek® Communications USA 2006. This information provides a general description of product and shall not form part of any contract. Improvement or changes may be made to the product without advanced notification.