

**Product Name** : 12F G.657.A1 Atlas Lite™ Air Blown Optical Fiber Cable  
A-D4Y 1x12 E9/125 G657.A1  
**Product Code** : AB0012FS101TGCN34  
**Revision** : 4.0

**Date** : 08-Dec-2021

**Product Details**

Sterlite Tech Airblown Fibre Optic cable is generally used in FTTx applications. It features light weight and small diameter specifically designed for metro feeder or access networking, especially suitable for air-blowing installation into single or bundled micro ducts.

**Construction Diagram**



\* Typical Construction Diagram - Not to Scale

**Features & Benefits**

- Small size, fast cable termination and easy cable management.
- Optimum solution for last mile application.
- Provides comparable better crush and impact resistance.

**Specifications**

Physical Characteristics	
Fibre Count	12
Fibre Type	Sterlite Fibre ITU-T G.657.A1 BOW-LITE
Maximum Cabled Attenuation (dB/km)	1310 nm: 0.35 and 1550 nm: 0.23
Individual PMD (ps/√km)	≤ 0.2
Link Design PMD (ps/√km)	≤ 0.1
Fibres per Tube	12
Fibres Color Sequence <sup>§</sup>	Red, Green, Blue, Yellow, White, Grey, Brown, Violet, Turquoise, Black, Orange, Pink
Tube Size (mm)	2.3
Nominal Cable Dimensions (mm)	2.3 ± 0.1
Nominal Cable Weight (kg/km)	6.0 ± 10%

**Note:** <sup>§</sup> Other fibers' color sequences can be manufactured on demand, prior approval

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	80
Crush Resistance (N/100 mm)	IEC-60794-1-21-E3	800
Impact Strength (N·m)	IEC-60794-1-21-E4	2
Torsion	IEC-60794-1-21-E7	±180°
Min. Bend Radius (During Installation)	IEC-60794-1-21-E11	15 x OD
Min. Bend Radius (After Installation)	IEC-60794-1-21-E11	10 x OD
Water Penetration Test	IEC-60794-1-22-F5	1m waterhead, 3m sample, 24 h
Drip Test	IEC-60794-1-21-E14	30 cm, 70 °C, 24 h
*Temperature Performance	IEC-60794-1-22-F1	Max. change in attenuation shall be ≤ 0.15 dB/km
Installation		-10 °C to +50 °C
Operation		-30 °C to +70 °C
Storage		-30 °C to +70 °C

**Note:** All tests shall be carried out as per IEC standards. Change in attenuation after and before testing shall be ≤ 0.1 dB/km

**Cable Performance Standards**

Cable complies to the following standards IEC 60793, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T, RoHS, REACH.

### Packing and Lengths

Drum Type : Non returnable Plastic Spool  
Custom Length Multiple (km) : 5  
Order Tolerance :  $\pm 5\%$   
Short Lengths : Max 5%, upon Customer approval  
**Note:** Other lengths can be manufactured on demand prior approval

### Printing Details

Printing : FTTH DEUTSCHE GLASFASER GFK # FIBER TYPE # FIBER COUNT # STL – ALCADON # LENGTH  
CODE # METER MARKING

**Note** : The accuracy of marking shall be + 0.5%. Occasional loss of printing & remarking shall be as per Bell core GR 20 and this supersedes the earlier markings.  
Customized printing is possible on demand, prior approval