

Product Name : 12F G.657.A1 Atlas Lite™ Air Blown Optical Fiber Cable
 A-D4Y 1x12 E9/125 G657.A1
Product Code : AB0012FS101TGCN18
Revision : 5.0

Date : 18-Mar-2020

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
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	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 ± 10%

Mechanical & Environmental Characteristics		
Cable Characteristics	Testing Standard	Cable Performance
Tensile Strength (N)	IEC-60794-1-21-E1	70
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		-20 °C to +70 °C
Storage		-20 °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
- Standard Length Multiple (km) : 4
- Order Tolerance : ± 5%
- Short Lengths : Max 5%, upon Customer approval

Note: Other lengths can be manufactured on demand prior approval

Printing Details

Printing : STL # 12F # G657.A1 # AIR BLOWN # YEAR OF MANUFACTURE # 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.

Example: Atlas Lite™ Airblown Cable 12 fibres G.657.A1, manufactured in 2019, Drum number 1234 5678, Meter 1234

STL	12F	G657.A1	AIR BLOWN	2019	1234 5678	1234M
-----	-----	---------	-----------	------	-----------	-------

Note: customized printing is possible on demand, prior approval

MAT code (SAP): FCL7SXA0012DGA1002

Revision History

Revision No.	Date	Description
1.0	20-Nov-2019	Initial Issue
2.0	13-Jan-2020	Changes: added Individual PMD, updated impact, temperature ranges and printing, added printing example
3.0	27-Jan-2020	Changes: printing and printing example
4.0	07-Feb-2020	Changes: added cable description to DIN VDE 0888 and MAT code
5.0	18-Mar-2020	Changes: updated printing details

Prepared By: Zaid
Checked By: Fulvia

