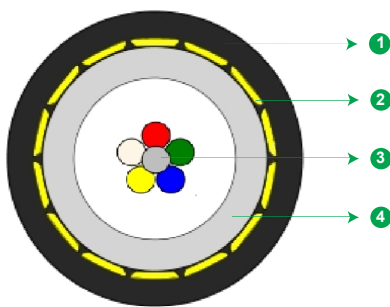
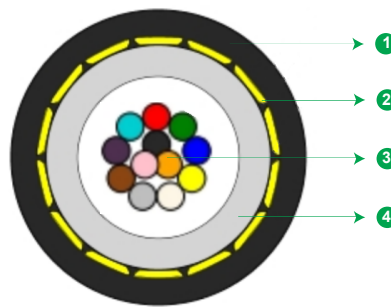


# Nano-Lite

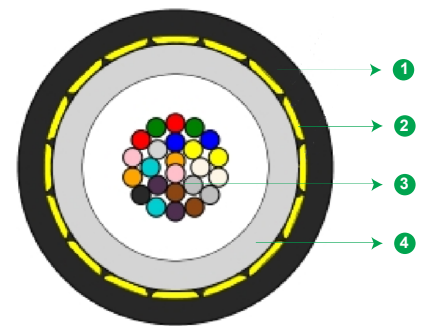
Unitube Gel Filled OFC 2F - 24F  
A-DQ(ZN)2Y 1 x ff E9/125 (ff = 02 to 24)



Cross Section 6F



Cross Section 12F



Cross Section 24F

- 1 OUTER SHEATH    2 ARAMID YARNS - WATER SWELLABLE    3 OPTICAL FIBRES    4 LOOSE TUBE - GEL FILLED

\* Typical Construction Diagram - Not to Scale

## Features & Benefits

- Optimized for blowing in 7/4 mm and 10/6 mm micro-ducts
- Unitube design allows size and weight to be minimised, and cable installation, termination and management to be simplified
- High tensile strength by means of high strength aramid yarns
- Longitudinal water protection by means of water blocking aramid yarns and gel filling compound in the loose tube
- UV Resistant
- Flexible, light weight, easy to handle and install
- Class Fca rated according to CPR

## Product Details

STL Nano Lite Out-Side Plant Fibre Optic Cable is generally used in the drop section of FTTx networks based on micro-ducts. They feature light weight and small diameter and are designed for optimum blowing performances in single or bundled 7/4mm and 10/6mm micro-ducts. The single jacket, gel-filled unitube construction with aramid yarns meets high tensile strength requirements and offers best-in class fibre protrusion requirements.

## Fibres and Cable Performance Standards

The fibres and cables comply to the following standards IEC 60793, IEC 60794-5-10, ITU-T, RoHS, REACH.

## Printing Details

Printing: STERLITE SM FIBRE TYPE FIBRE COUNT-F NANO-LITE-OFC CE-MARKING-Fca LASER-SYMBOL TELEPHONE-SYMBOL YEAR OF MANUFACTURE LENGTH CODE METER MARKING.

Printing method: Ink-Jet

**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.

## Specifications

Physical Characteristics	
Maximum Cabled Fibre Attenuation (dB/km)	1310nm: 0.35; 1550nm: 0.23; 1625nm: 0.26
PMD LDV (ps/√km)	≤ 0.1
Loose Tube Colour	Natural
Peripheral Strength Members	High Strength, Water-blocking Aramid Yarns
Outer Sheath Material	UV Resistant Black <sup>1</sup> , High Density Polyethylene
Outer Sheath Thickness (mm)	0.4 (nominal value)

Fibres Colour Sequence (as per DIN/VDE 0888) <sup>2,3</sup>											
Red	Green	Blue	Yellow	White	Grey	Brown	Violet	Turquoise	Black	Orange	Pink

**Notes:** <sup>1</sup>Other jacket colours are available on demand, prior approval

<sup>2</sup>The fibres 13 to 24, when present, have a black ring marking (the black fibre is replaced by a natural fibre with black ring marking)

<sup>3</sup>Other fibres colour sequences are available on demand, prior approval.

Cable Designs with G.657 A1/G.652 D fibres <sup>4</sup>					
Product Code	Fibre count	Fibre Type	Loose Tube Diameter (mm) ±0.05	Cable Diameter <sup>5</sup> (mm) ±0.1	Cable Weight (kg/km) ±10%
E20002SN01GDP10000	2	G.657 A1/G.652 D	1.55	2.5	6
E20004SN01GDP10000	4	G.657 A1/G.652 D	1.55	2.5	6
E20006SN01GDP10000	6	G.657 A1/G.652 D	1.55	2.5	6
E20008SN01GDP10000	8	G.657 A1/G.652 D	1.65	2.5	6
E20012SN01GDP10000	12	G.657 A1/G.652 D	1.65	2.5	6
E20024N101GDP10000	24 <sup>6</sup>	G.657 A1/G.652 D 200µm	1.85	2.7	8

**Notes:** <sup>4</sup>Selection of available fibres in the respective Product Ordering Information sections, other fibre types are available on demand prior approval.

<sup>5</sup>The maximum value of cable diameter is determined according to the ASTM D4565-20 standard

<sup>6</sup>The 24 fibre design is available only based on 200µm fibres.

## Specifications

Mechanical & Environmental Characteristics		
Cable Characteristics	Cable Performance	Testing Standard Method
Tensile Strength - short term (N)	200	IEC-60794-1-21-E1
Crush Resistance - short term (N/10cm)	500	IEC-60794-1-21-E3A
Impact Strength (N·m)	1	IEC-60794-1-21-E4
Torsion	±180°	IEC-60794-1-21-E7
Repeated Bending (Radius)	20 x OD	IEC-60794-1-21-E6
Bend (Radius)	20 x OD	IEC-60794-1-21-E11A
Min. Bend Radius (During Installation)	20 x OD	
Min. Bend Radius (After Installation)	15 x OD	
Water Penetration Test	1 m waterhead, 3 m samples, 24 h	IEC-60794-1-21-F5B
Drip Test	30 cm, 70°C, 24 h	IEC-60794-1-21-E14
Temperature Performance		IEC-60794-1-22-F1
Installation	-5°C to +50°C	
Operation	-20°C to +60°C	
Storage	-30°C to +70°C	
Fibre Protrusion	Grade 1	IEC-60794-1-22-F17

**Notes:** All tests shall be performed according to the relevant methods of the IEC 60794-1 standard series with limit values and acceptance criteria according to the IEC 60794-5-10 standard.

Fibre protrusion graded according to the IEC TR 62959 : long sample under OP+ conditions.

Drum Type	Length Multiple (in km)	Order Tolerance	Short Lengths
Plywood Drums	2, 4 ± 5%	-0/+5%	Max 5%, ~ ] [ ] / Customer approval

## Ordering Information

Other fibre counts, types and tube colours sequences may be available on request, please create product code from the table below.

Product type		Fibre count (0002 – 0024)				Fibre type		No. of active tubes (01)		Cable core type	Fibres colour code		Jacket type		Running number		Special requirements	
		1				2		3			4						5	
E	2	-	-	-	-	-	-	0	1	G	-	P	1	0	0	0	0	

- Fibre count by indicating the corresponding number from 0002 to 0024
- Fibre code corresponding to requested fibre type among following options

Fibre code	Fibre type (ITU-T)	STL's Fibre Name	Mode Field Diameter (MFD) @1310 nm (µm)	
S	N	G.657.A1/G.652 D	Nova 250 <sup>1</sup>	9.2 ± 0.4
C	1	G.657 A2/G.652 D	Stellar 250 <sup>1</sup>	9.1 ± 0.4
S	2	G.657 A2	HD A2 250 <sup>1</sup>	8.6 ± 0.4
N	1	G.657 A1/G.652 D 200µm	Nova 200 <sup>2</sup>	9.2 ± 0.4
C	2	G.657 A2/G.652 D 200µm	Stellar 200 <sup>2</sup>	9.1 ± 0.4
S	9	G.657 A2 200µm	HD A2 200 <sup>2</sup>	8.6 ± 0.4

**Notes:** <sup>1</sup>only for cable designs with 2 to 12 fibres;  
<sup>2</sup>only for cable design with 24 fibres

- Number of active tubes : 01
- Fibres colour sequence available options<sup>3</sup>

Code	Fibres and Tubes Colour Codes
A	EIA/TIA 598 C
D	DIN/VDE 0888
F	France
H	Switzerland
I	Italy
L	Hungary
M	Poland

**Note:** <sup>3</sup>other colour codes are available on demand prior approval

- Special requirement:

Code	Special requirements
00	Black Colour Jacket
J1	Orange Colour Jacket

For additional information please contact your sales representative.

You can also visit our website at [www.stl.tech](http://www.stl.tech) or [www.stl.tech/germany](http://www.stl.tech/germany)

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