

## Pull Back Retractable Cables

a10048:DL002:-----SE

### Product Details

Anatolia Retractable ( Pull Back ) Fibre Optic Cable is used for outdoor installation into ducts, constructed with colour coded single mode /bend sensitive fibres placed in a thermoplastic tube/ module, protected by two embedded strength members for anti buckling property and are covered with outer sheath which makes the cable robust and installation friendly.

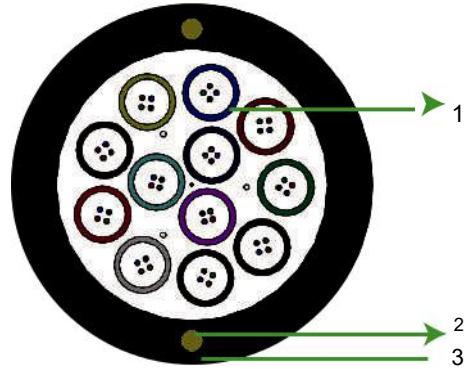
### Product Application

These cables can be used for outdoor installation into ducts. Window cuts into the sheath wall allow easy selection and extraction of single fibre unit for re-routing purposes without the need to dispose of excess cable. Modules may be further blown, pushed or pulled (using pulling cords) inside microducts (7/3.5mm).

### Features & Benefits

- Available upto 48 fibre count in either single-mode or multi-mode optical fibres
- Special low-bend-sensitivity fibre provides high bandwidth and excellent communication transmission property
- Two parallel strength members ensure good performance of crush resistance to protect the fibre
- Simple structure, light weight and high practicability
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. LOOSE TUBE WITH FIBRES & GEL
2. EMBEDDED STRENGTH MEMBER
3. OUTER SHEATH



FTTH



Totally Dielectric



High Flexibility



UV Protected

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations,

## Specifications

Physical Characteristics				
Fibre Count	24	48		
Fibres per Tube	2	2		
Nominal Cable Diameter (mm) ± 0.5mm	15	15		
Nominal Cable Weight (kg/km) ± 10%	115	115		
Mechanical and Environmental Characteristics				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	1000		
Bending Radius	IEC-60794-1-21-E11	Dynamic = 20D, Static = 15D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	500		
Impact strength (N.m)	IEC-60794-1-21-E4	4		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km. No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/ps/√km	PMD qlink, ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,1	≤ 1260

\*\* This fibre is also available as a bend insensitive .

## Tube / Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18	19	20	21	22	23	24
Blue	Orange	Green	Brown	Grey	White	Red	Natural	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Wooden drums

Lengths (tolerance ±5%): 2km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## EPFU –Airblown Subscriber Cable

2d0024:DM024:W---S-

### Product Details

Anatolia 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. A dual layer thermoplastic material provides the best possible balance between stiffness and flexibility, optimum coefficient of friction and the required crush resistance and tensile strength for enhanced blowing performance.

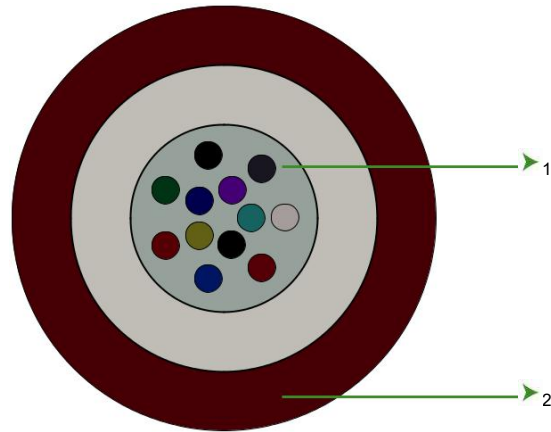
### Product Application

This design gives optimum balance of stiffness and flexibility allowing longer blowing distances compared to other blown cables available in the market which are blown into the smallest duct size using air-blowing cable installations. This technology is common in congested areas, such as metro applications where duct space is very limited, can be installed in new as well as existing ducts.

### Features & Benefits

- Available upto 24 fibre count in either single-mode or multi-mode optical fibres
- Unitube design allows minimised weight and eases cable installation
- Small size, fast cable termination and easy cable management
- Optimum solution for last mile application
- Provides comparable better crush and impact resistance
- Provides optimum co-efficient of friction for enhanced blowing performance
- Longitudinal water protection is enabled by water blocking compounds in tube
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. FIBRES & GEL
2. DUAL LAYER OUTER SHEATH



Duct



Totally Dielectric



Water Blocked



High Flexibility

## Performance Standards

Cable complies to the latest issue of following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations, GR-409, RoHS

## Specifications

Physical Characteristics				
Fibre Count	2-6	12	24	
Fibre Diameter (Micron)	250	250	200	
Nominal Cable Diameter (mm) ± 0.3mm	2.0	2.3	2.4	
Nominal Cable Weight (kg/km) ± 10%	5.0	6.0	8.0	
Mechanical and Environmental Characteristics*				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	70N		
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	800		
Impact strength (N.m)	IEC-60794-1-21-E4	3		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +50°C	Operation: -20°C to +70°C	Storage: -20°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D andITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km			PMD, ps/√km	PMD LDV ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D fibre **	≤ 0,4	≤ 0,3	≤ 0,4	≤ 0 ,20	≤ 0,1	≤ 1260
G657A1 fibre	≤ 0,4	≤ 0,3	≤ 0,4	≤ 0 ,20	≤ 0,1	≤ 1260

\*\* This fibre is also available as a bend insensitive

## Fibre Standard Colour Code (As per EIA/TIA 598)

1 Blue	2 Orange	3 Green	4 Brown	5 Grey	6 White	7 Red	8 Black	9 Yellow	10 Violet	11 Pink	12 Aqua
13 Blue	14 Orange	15 Green	16 Brown	17 Grey	18 White	19 Red	20 Natural	21 Yellow	22 Violet	23 Pink	24 Aqua

## Packing and Lengths

Packing: Plastic Spool

Lengths (tolerance ±5%): 2/4/6 km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## DUCT-Unitube Single Jacket Duct Nano

2d0024:DL024:W---S-

### Product Details

Anatolia DUCT Unitube Single Jacket Duct Nano Fibre Optic Cable is used for outdoor applications in cable trays or ducts or aerial drop for access inside campus and within buildings. This cable consists of colour coded optical fibres placed in a central tube along with gel to protect from water ingress and is surrounded with aramid yarns which provides tensile to the core. Thermoplastic sheath placed over the dielectric armor layer makes the cable user friendly.

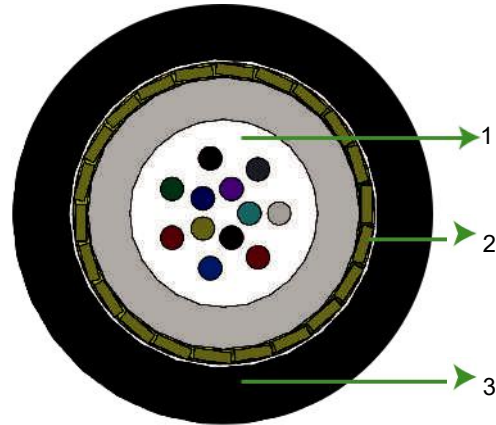
### Product Application

These cables can be used for outdoor applications in cable trays or ducts or aerial drop for access inside campus and within buildings.

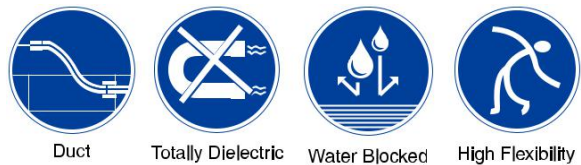
### Features & Benefits

- Available upto 24 fibre count in either single-mode or multi-mode optical fibres
- Unitube design allows minimised weight and eases cable installation
- Small size, fast cable termination and easy cable management
- Optimum solution for last mile application
- Easily removable rugged jacket
- Longitudinal water protection is enabled by water blocking compounds in tube
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. LOOSE TUBE WITH FIBRES & GEL
2. PERIPHERAL STRENGTH YARNS
3. OUTER SHEATH



## Performance Standards

Cable Complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations, GR-409 CPR rating for LSZH sheath

## Specifications

Physical Characteristics				
Fibre Count	2-12		24	
Nominal Cable Diameter (mm) ± 0.5mm	2.5		3.2	
Nominal Cable Weight (kg/km) ± 10%	10		15	
Mechanical and Environmental Characteristics				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	100 N @ 0.5% fibre Strain 40 N @ No fibre Strain		
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	100		
Impact strength (N.m)	IEC-60794-1-21-E4	5		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D andITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV, ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0 ,20	≤ 0,1	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0 ,20	≤ 0,1	≤ 1260

\*\* This fibre is also available as a bend insensitive

## Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18	19	20	21	22	23	24
Blue	Orange	Green	Brown	Grey	White	Red	Natural	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Plastic spool

Lengths (tolerance ±5%): 2 km, 4 km, 6 km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>



## AERIAL Unitube Figure-8

2d0012:8L012:W---S-

### Product Details

Anatolia AERIAL Unitube Figure-8 Optical Fibre Cable is a Unitube cable, which is intended for use in aerial installations. This product has integrated extra high strength (EHS) stranded steel messenger wire as a support strand which provides high tensile strength to the cable and make them ideal to be used for aerial outdoor applications. This cable consists of colour coded optical fibres placed in a central tube along with gel to protect from water ingress and is surrounded with aramid yarns which provides tensile to the core. Thermoplastic sheath is placed over the cable core and integrated stranded steel messenger to form a "Figure-8" configuration

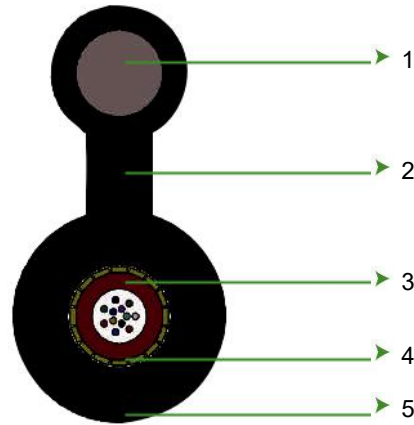
### Product Application

- Designed suitably for outside plant (OSP) aerial applications for short runs between buildings and also for short, medium span aerial installations
- Provides easy and economical one-step installation and stable performance over a wide temperature range and is compatible with any local distribution telecommunication network.

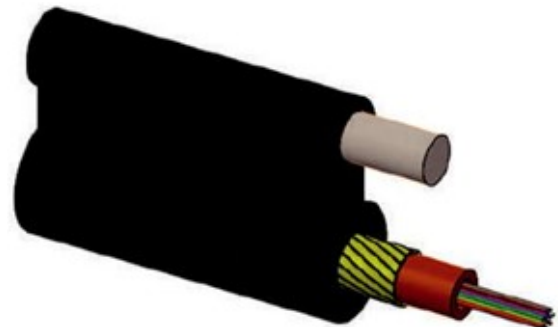
### Features & Benefits

- Available up to 12 fibre count in either single-mode or multi-mode optical fibres
- Unitube design allows minimised weight and eases cable installation
- Small size, fast cable termination and easy cable management
- Optimum solution for last mile application
- Figure-8 cable design provides easy and economical one-step installation
- High tensile strength steel (EHS) strand suited for aerial applications
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. STEEL WIRE
2. NECK
3. LOOSE TUBE WITH FIBRES & GEL
4. PERIPHERAL STRENGTH MEMBERS
5. OUTER SHEATH



Aerial Drop



Water Blocked



UV Protected

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations, RoHS

## Specifications

Physical Characteristics			
Fibre Count	4-12		
Nominal Cable Diameter (mm) ± 0.5mm	5.2 X 10.2		
Nominal Cable Weight (kg/km) ± 10%	48		
Mechanical and Environmental Characteristics*			
Test	Standard / Notes	Product Performance	
Max. Tensile Strength (N)	IEC-60794-1-21-E1	1200	
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D	
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	1000	
Impact strength (N.m)	IEC-60794-1-21-E4	10	
Torsion	IEC-60794-1-21-E7	± 180°	
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr	
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C   Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage	

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D andITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D** fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,1	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,1	≤ 1260

\*\* This fibre is also available as a bend insensitive

## Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Wooden drums

Lengths (tolerance ±5%): 2km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>



## ARMOR Unitube Single Jacket Steel Tape Armored

2d0024:BL024:W-TRS-

### Product Details

Anatolia ARMOR-Unitube Single Jacket Steel Tape Armored Cables is a central tube cable using optical fibres presented in loose tube and surrounded by Steel Tape armor. To protect the optical fibres from water ingress, the tube is filled with a thixotropic gel, and is enclosed in a thermoplastic sheath. The cables have embedded strength members for anti buckling property. The cables can also be offered with steel wire as embedded strength member to provide higher tensile strength.

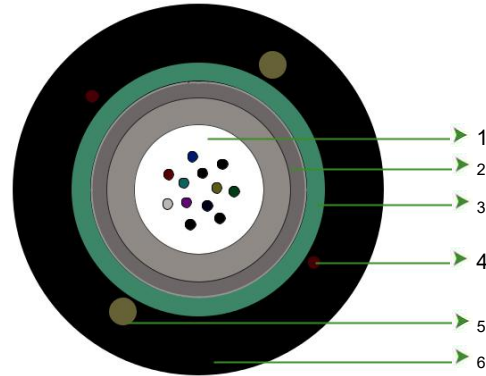
### Product Application

These cables can be used for outdoor applications in ducts or aerial drop for access and distribution for campus/ between and within buildings. These cables can be installed in ducts with either pulling or blowing techniques and in aerial applications with traditional lashing methods.

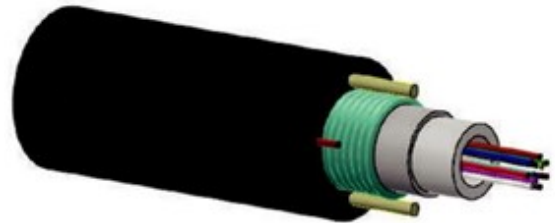
### Features & Benefits

- Available up to 24 fibre count in either single-mode or multi-mode optical fibres
- Steel tape adds to crush resistance as well as can be used as a cable locator after installation
- Cables are rodent protected
- Easily removable rugged jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. LOOSE TUBE WITH FIBRES & GEL
2. WATER SWELLABLE TAPE
3. STEEL TAPE ARMOR
4. RIPCORD(S)
5. EMBEDDED STRENGTH MEMBER
6. OUTER SHEATH



Rodent Protection



Water Blocked



UV Protected

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations, CPR Certification for LSZH sheath, RoHS

## Specifications

Physical Characteristics				
Fibre Count		2-12		24
Nominal Cable Diameter (mm) ± 0.5mm		7.5		9.0
Nominal Cable Weight (kg/km) ± 10%		60		70
Mechanical and Environmental Characteristics*				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	1000	1000	
Bending Radius	IEC-60794-1-21-E11	Dynamic = 20D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	1000	1000	
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km. No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D	≤ 0,4	≤ 0,3	≤ 0,4	≤ 0 ,20	≤ 0,10	≤ 1260

## Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18	19	20	21	22	23	24
Blue	Orange	Green	Brown	Grey	White	Red	Natural	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Wooden drums

Lengths (tolerance ±5%): 2km, 4km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## ARMOR-Unitube Single Jacket Steel Wire Armored

2d0024:BL024:W-WRS-

### Product Details

Anatolia ARMOR Unitube Single Jacket Steel Wire Armored Cables is a multipurpose cable design that provides the reliability required in harsh environments. This is a central tube Cable using optical fibres presented in tube filled with a thixotropic gel to protect from water ingress. Core is sheathed with inner jacket and Steel wire armor surrounds the inner sheath with outer jacket placed over the armor layer making the cable robust and installation friendly. For potentially hazardous applications Low Smoke Zero Halogen is recommended.

### Product Application

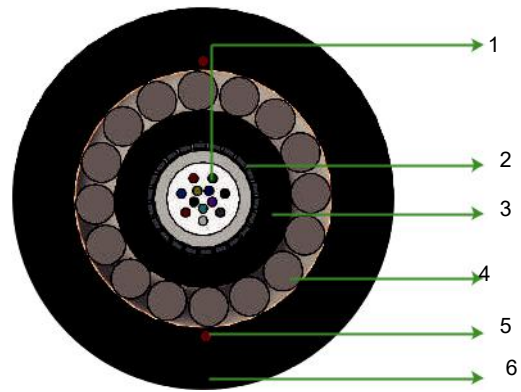
These cables are typically used in heavy construction zones including heavy traffic area, wind farm developments, pipelines, oil and gas fields, heavy industrial sites and a variety of additional harsh environments. This cable is suitable for direct buried and other hazardous applications.

- Heavy construction and hazardous applications like Oil and Gas fields.
- Voice, data, broadband and CATV transmission in Long Distance and Backbone Networks with direct burial, duct, marsh and river crossing installation methods.

### Features & Benefits

- Available up to 24 fibre count in either single-mode or multi-mode optical fibres
- Very high Crush and Impact resistant cable, suitable for harsh installation environment
- Wire armoring has excellent mechanical performance with high tensile properties
- Water blocking compounds outside the tubes and gel inside the tubes create water protection in the tubes and core
- Steel armoring provides rodent resistant
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. LOOSE TUBE WITH FIBRES & GEL
2. WATER SWELLABLE PERIPHERAL STRENGTH YARNS
3. INNER SHEATH
4. STEEL WIRE ARMORING
5. RIPCORD(S)
6. OUTER SHEATH



Rodent Protection



Water Blocked



UV Protected



High Crush

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations, CPR certification for LSZH sheath

## Specifications

Physical Characteristics				
Fibre Count		4-8		12-24
Nominal Cable Diameter (mm) ± 0.5mm		10.0		11.5
Nominal Cable Weight (kg/km) ± 10%		200		244
Mechanical and Environmental Characteristics*				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	3500		3500
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	4000		4000
Impact strength (N.m)	IEC-60794-1-21-E4	50		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km. No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D and ITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D** fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,1	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,15	≤ 1260

\*\* This fibre is also available as a bend insensitive

## Fibre Standard Colour Code (As per EIA/TIA 598)

1 Blue	2 Orange	3 Green	4 Brown	5 Grey	6 White	7 Red	8 Black	9 Yellow	10 Violet	11 Pink	12 Aqua
13 Blue	14 Orange	15 Green	16 Brown	17 Grey	18 White	19 Red	20 Natural	21 Yellow	22 Violet	23 Pink	24 Aqua

## Packing and Lengths

Packing: Wooden drums

Lengths (tolerance ±5%): 2km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## DROP Cable Unitube Mini ADSS

2d0024:AL024:W---S-

### Product Details

Anatolia DROP Unitube Mini ADSS Fibre Optic Cable is a unitube cable, which is intended for use in drop installations. This cable consists of colour coded optical fibres placed in a central tube along with gel to protect from water ingress and is surrounded with aramid yarns which provides tensile to the core. Thermoplastic sheath placed over the dielectric armor layer makes the cable user friendly.

### Product Application

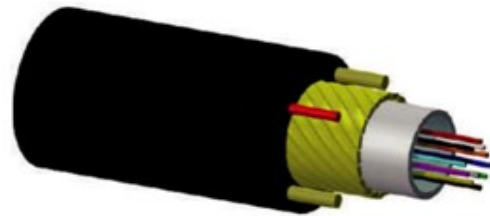
These cables can be used for outdoor applications in access network or as access cable from outdoor to indoor in customer premises network. It can be used as access building cable in premises distribution system, especially used in outdoor aerial access cabling.

### Features & Benefits

- Available up to 24 fibre count in either single-mode or multi-mode optical fibres
- Unitube design allows minimised weight and eases cable installation
- Small size, fast cable termination and easy cable management
- Optimum solution for last mile application
- Good mechanical and environmental characteristics
- High strength loose tube that is hydrolysis resistant
- Aramid yarn strength member ensure tensile strength
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable

1. LOOSE TUBE WITH FIBRES & GEL
2. PERIPHERAL STRENGTH YARNS
3. RIPCORD(S)
4. EMBEDDED STRENGTH MEMBER
5. OUTER SHEATH



Aerial Drop



Totally Dielectric



Water Blocked



Protected

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations

## Specifications

Physical Characteristics			
Fibre Count	2-12	24	
Nominal Cable Diameter (mm) ± 0.5mm	4.8	5.8	
Nominal Cable Weight (kg/km) ± 10%	22	25	
Mechanical and Environmental Characteristics*			
Test	Standard / Notes	Product Performance	
NESC Conditions/Span		(Wind Speed 65Km/Hr, Ice Loading 0mm)/50 m	
Maximum Operating Tension (Long Term)		150N	
Maximum Allowable Tension (Short term)		500N	
Installation Sag %		1.5%	
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D	
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	1000	1000
Impact strength (N.m)	IEC-60794-1-21-E4	10	
Torsion	IEC-60794-1-21-E7	± 180°	
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr	
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage	

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D andITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV, ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D** fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,08	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,08	≤ 1260

\*\* This fibre is also available as a bend insensitive

## Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18	19	20	21	22	23	24
Blue	Orange	Green	Brown	Grey	White	Red	Natural	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Wooden drums with protection

Lengths (tolerance ±5%): 4 km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## DROP Easy Strip Fig 8 Flat

a10002:8T002:-F--SE

### Product Details

Anatolia Drop Easy Strip Fig 8 Flat Cable is an enhanced performance FTTH solution, constructed with one/two single mode /bend sensitive fibres (ITU-T G657A1) protected by two strength members and a messenger wire on the top for aerial drop applications and a final LSZH jacket. This Cable is very light and easy to install and strip. Industry standard connectors can be used for direct Termination because of standard 250µm fibre size. Coloured fibre is for easy identification.

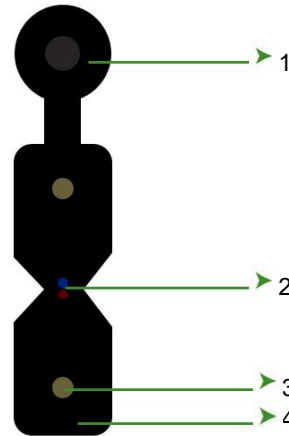
### Product Application

These cables can be used for indoor/outdoor aerial applications and FTTX/FTTH applications between the apartment's central communication room and the apartment/office point.

### Features & Benefits

- Available in 1 or 2 fibre count in either single-mode or multi-mode optical fibres
- Special low bend sensitivity fibre provides high bandwidth and excellent communication transmission property
- Two parallel strength members ensure good performance of crush resistance to protect the fibre
- Simple structure, light weight and high practicability
- More bandwidth, reliability and low cost
- Novel flute design, easily strip and splice, simplify the installation and maintenance
- Low smoke, zero halogen and flame retardant sheath
- Industry standard connectors can be used for direct Termination
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. SUPPORTING STRENGTH MEMBER
2. COLORED FIBRES
3. EMBEDDED STRENGTH MEMBERS
4. OUTER SHEATH



Aerial Drop



Water Blocked



UV Protected



## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations, GR-409

## Specifications

		Physical Characteristics		
Fibre Count		1-2		
Nominal Cable Diameter (mm) ± 0.5mm		5.4 X 2.0		
Nominal Cable Weight (kg/km) ± 10%		20		
Mechanical and Environmental Characteristics				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	400		
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	1000		
Impact strength (N.m)	IEC-60794-1-21-E4	4		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation	coefficient, dB/km	(Average/Maximum)	PMD, ps/√km	PMD LDV ps/√km	Cut-off Wavelength (lcc), nm
	1310nm	1550nm	1625nm			
G657A1 fibre	≤ 0,4	< 0,3	< 0,4	≤ 0 ,20	≤ 0,1	≤ 1260

## Fibre Standard Colour Code (As per EIA/TIA 598)



## Packing and Lengths

Packing: Plastic drums

Lengths (tolerance ±5%): 500, 1000 Mtrs

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## DROP Flat Drop Dielectric/Toneable

2d0012:RL012:W-WRS-

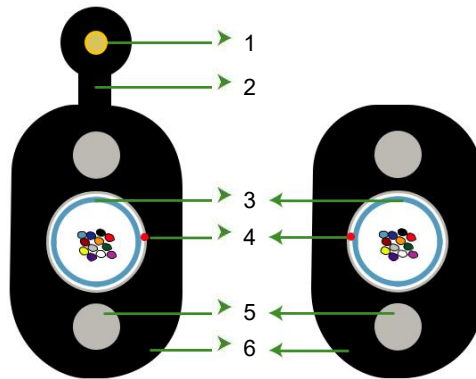
### Product Details

Anatolia DROP Flat Drop Dielectric/Toneable Fibre Optic Cable offers the ease of installation in an easy-access, single-tube design. This is a central Tube Cable using optical fibres presented in tube filled with a thixotropic gel, and is enclosed in a thermoplastic sheath. The cables have two embedded strength members for anti buckling property. The dielectric version eliminates any bonding and grounding requirements. Toneable version adds a 24 AWG conductor that provides underground location tracing, attached by a web for easy tear-away separation from the cable – the most popular option for underground and multi-purpose installation.

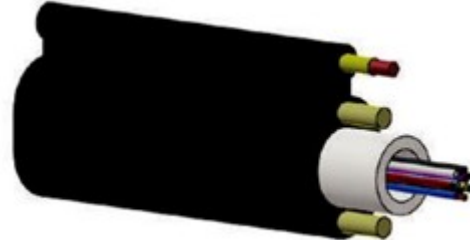
### Product Application

This cable is well suitable for self-supporting aerial, duct, buried applications and as outdoor cable for all OSP drop cable applications. The dielectric version eliminates any bonding and grounding requirements. The cables offer exceptional crush resistance. UT Flat Drop provides easy FTTx (Fibre-To-The-X) installation and termination using existing hardware and methods for drops to homes and businesses. Its flat profile is compatible with economical wedge clamps for self-support aerial spans up to 90 meters, depending on environmental loading

### Typical Construction of Cable



1. COPPER TONING WIRE
2. NECK
3. LOOSE TUBE WITH FIBRES & GEL
4. RIPCORD(S)
5. EMBEDDED STRENGTH MEMBER
6. OUTER SHEATH



### Features & Benefits

- Available up to 12 fibre count in either single-mode or multi-mode optical fibres
- Embedded strength members for anti-buckling properties
- Longitudinal water protection is enabled by water blocking compounds in tube
- Easy access to fibre due to its unitube construction
- Available with steel wire as embedded strength member for higher tensile strengths
- Toning wire enables underground location
- Industry standard connectors can be used for direct termination
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request



Water Blocked



UV Protected



Aerial Drop

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations

## Specifications

Physical Characteristics				
Fibre Count	Up to 12 (Dielectric)		Up to 12 (Toneable)	
Nominal Cable Diameter (mm) ± 0.5mm	4.4 * 8.2		4.4 * 10.2	
Nominal Cable Weight (kg/km) ± 10%	35		55	
Mechanical and Environmental Characteristics*				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	1300	1300	
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	2500	2500	
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D andITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0 ,20	≤ 0,10	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0 ,20	≤ 0,10	≤ 1260

\*\* This fibre is also available as a bend insensitive

## Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Wooden drums

Lengths (tolerance ±5%): 2km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## DROP Unitube Single Jacket Embedded Strength Member

2d0024:RL024:W---SE

### Product Details

Anatolia DROP Unitube Single Jacket Embedded strength member Cables are multipurpose cables designed for diverse needs for CATV applications. This is a central tube cable using optical fibres presented in tube filled with a thixotropic gel, and is enclosed in a thermoplastic sheath. The cables have embedded strength members for anti-buckling property and can be either FRP or Steel wire as per the requirement.

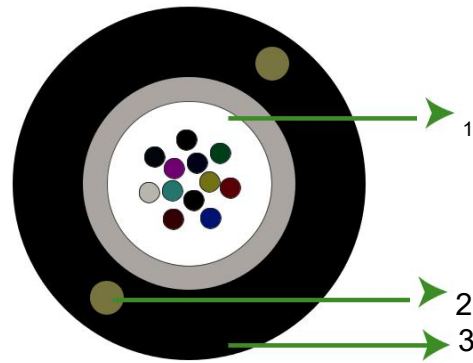
### Product Application

These cables can be used for outdoor applications in ducts or aerial drop for access and distribution for campus/ between buildings. These cables can be installed in ducts with either pulling or blowing techniques and in aerial applications with traditional lashing methods.

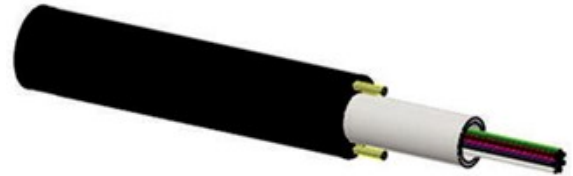
### Features & Benefits

- Available up to 24 fibre count in either single-mode or multi-mode optical fibres
- Easily removable rugged jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. LOOSE TUBE WITH FIBRES & GEL
2. EMBEDDED STRENGTH MEMBER
3. OUTER SHEATH



Aerial Drop



Totally Dielectric



Water Blocked



UV Protected

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T Recommendations

## Specifications

Physical Characteristics				
Fibre Count	2-12		24	
Nominal Cable Diameter (mm) ± 0.5mm	6.0		7.0	
Nominal Cable Weight (kg/km) ± 10%	30		35	
Mechanical and Environmental Characteristics*				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	350		
Bending Radius	IEC-60794-1-21-E11	Dynamic = 20D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	1000		
Impact strength (N.m)	IEC-60794-1-21-E4	10		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +50°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV, ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D** fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0.10	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0.10	≤ 1260

\*\* This fibre is also available as a bend insensitive (Sterlite Tech's NOVA fibre)

## Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Wooden drums

Lengths (tolerance ±5%): 2km, 4km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## DROP Unitube Single Jacket Dielectric Armored

2d0024:RL024:W-GRSE

### Product Details

Anatolia DROP Unitube Single Jacket Dielectric Armored Fibre Optic Cable is central tube cable using optical fibres presented in loose tube and surrounded by glass roving yarn armor. To protect the Optical fibres from water ingress, the tube is filled with a thixotropic gel, and is enclosed in a thermoplastic sheath. For potentially hazardous applications Low Smoke Zero Halogen is recommended.

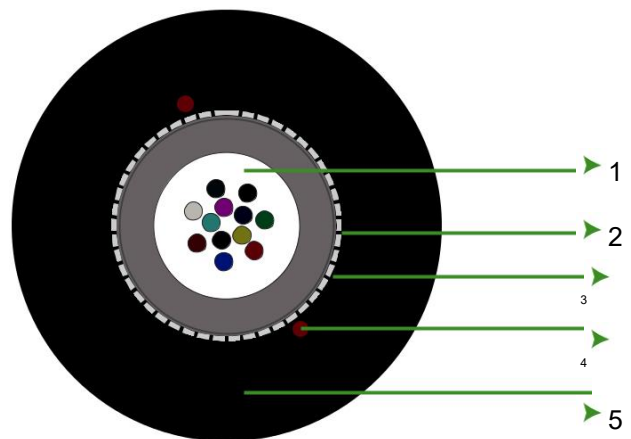
### Product Application

These cables can be used for outdoor applications in ducts or direct buried or aerial drop for access and distribution for campus/ between and within buildings. These cables can be installed in ducts with either pulling or blowing techniques and in aerial applications with traditional lashing methods.

### Features & Benefits

- Available up to 24 fibre count in either single-mode or multi-mode optical fibres
- Cables are rodent resistant
- Easily removable rugged jacket
- Flexible, light weight, easy to handle & install
- Tensile and crush resistant
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. LOOSE TUBE WITH FIBRES & GEL
2. WATER SWELLABLE TAPE
3. CORE WRAPPING WITH PERIPHERAL STRENGTH YARNS(If required)
4. RIPCORD(S)
5. OUTER SHEATH



Aerial Drop



Totally Dielectric



Water Blocked



UV Protected

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T recommendations CPR Certification for LSZH sheath

## Specifications

Physical Characteristics				
Fibre Count		2-12		24
Nominal Cable Diameter (mm) ± 0.5mm		7.4		8.4
Nominal Cable Weight (kg/km) ± 10%		45		60
Mechanical and Environmental Characteristics*				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	1000	1000	
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	1000	1000	
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7	± 180°		
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D andITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D** fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,1	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,1	≤ 1450

\*\* This fibre is also available as a bend insensitive

## Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Wooden drums

Lengths (tolerance ±5%): 19 km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>



## DROP Unitube Single Jacket Miniature

2d0024:RL024:W---S-

### Product Details

Anatolia DROP Unitube Single Jacket Miniature Fibre Optic Cable is used for outdoor applications in cable trays or ducts or aerial drop for access inside campus and within buildings. This cable consists of colour coded optical fibres placed in a central tube along with gel to protect from water ingress and is surrounded with aramid yarns which provides tensile to the core. Thermoplastic sheath placed over the dielectric armor layer makes the cable user friendly.

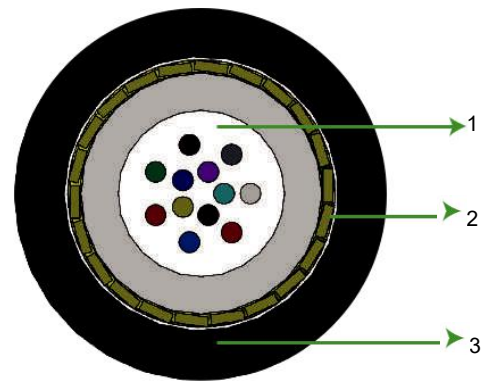
### Product Application

These cables can be used for outdoor applications in cable trays or ducts or aerial drop for access inside campus and within buildings.

### Features & Benefits

- Available upto 24 fibre count in either single-mode or multi-mode optical fibres
- Unitube design allows minimised weight and eases cable installation
- Small size, fast cable termination and easy cable management
- Optimum solution for last mile application
- Easily removable rugged jacket
- Longitudinal water protection is enabled by water blocking compounds in tube
- UV protected
- Tightly controlled physical parameters
- Combination of fibre types available on request

### Typical Construction of Cable



1. LOOSE TUBE WITH FIBRES & GEL
2. PERIPHERAL STRENGTH YARNS
3. OUTER SHEATH



Totally Dielectric



Water Blocked



High Flexibility



UV Protected

## Performance Standards

Cable complies to the following main Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, ITU-T recommendations, CPR for LSZH sheath

## Specifications

Physical Characteristics			
Fibre Count	2~12	24	
Nominal Cable Diameter (mm) ± 0.3mm	3.8	4.2	
Nominal Cable Weight (kg/km) ± 10%	15	18	
Mechanical and Environmental Characteristics*			
Test	Standard / Notes	Product Performance	
Max. Tensile Strength (N)	IEC-60794-1-21-E1	100	
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D	
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	200	
Impact strength (N.m)	IEC-60794-1-21-E4	5	
Torsion	IEC-60794-1-21-E7	± 180°	
Drip Test	IEC-60794-1-21-E14	30 cm, 70°C, 24 hr	
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	Storage: -30°C to +70°C	
1m water head, 3m samples, 24 hrs no water leakage			

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km. No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D and ITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV, ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D** fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,1	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0,20	≤ 0,1	≤ 1260

\*\* This fibre is also available as a bend insensitive

## Fibre Standard Colour Code (As per EIA/TIA 598)

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua
13	14	15	16	17	18	19	20	21	22	23	24
Blue	Orange	Green	Brown	Grey	White	Red	Natural	Yellow	Violet	Pink	Aqua

## Packing and Lengths

Packing: Plastic spool/drums

Lengths (tolerance ±5%): 4 km, 6 Km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## Simplex Armored

2d0002:BT002:--TRSE

### Product Details

Anatolia Simplex armored Cable contains two simplex units protected in a corrugated steel tape armored and overall jacket of Polyethylene. For indoor/ outdoor application Low Smoke Zero Halogen sheath is recommended Simplex, duplex indoor armored cable is composed of flexible tube, Kevlar strengthening member and outer jacket. With excellent mechanical performance of tensile strength and crush resistance, the cable is the ideal choice of cabling, processing patch cord, LAN and other communication applications.

### Product Application

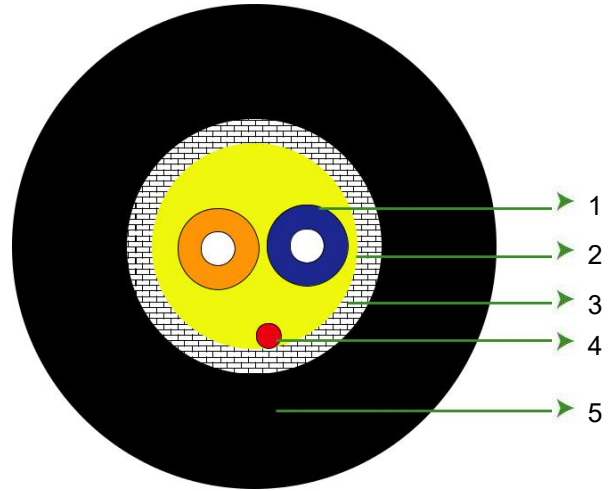
Cable is fit to use in Fibre to the Antenna (FTTA) application which can withstand adverse weather condition.

1. Fibre to the Home solution
2. Process to armored patch cord
3. Cabling on wall, ceil, tube
4. Cabling on outer wall, between building

### Features & Benefits

- Available in 1 or 2 fibre count
- Cables are rodent protected
- Easily removable rugged jacket.
- Flexible, light weight, easy to handle & install.
- Good Tensile and crush resistant.
- UV protected.
- Combination of fibre types available on request

### Typical Construction of Cable



1. TIGHT BUFFER WITH FIBRE
2. PERIPHERAL STRENGTH MEMBER (ARAMID YARNS)
3. CORRUGATED STEEL TAPE
4. RIPCORD
5. OUTER SHEATH



FTTH



Rodent Protection



High Flexibility

## Performance Standards

Cable complies to the following International Standards IEC.60794 series, ANSI/ICEA S-87-640, Telcordia GR-20, GR 409, ITU-T Recommendations

## Specifications

Physical Characteristics				
Fibre Count	2			
Nominal Diameter (mm) ± 0.5mm	8.5			
Nominal Weight (kg/km) ± 10%	45			
Mechanical and Environmental Characteristics*				
Test	Standard / Notes	Product Performance		
Max. Tensile Strength (N)	IEC-60794-1-21-E1	1000		
Bending Radius	IEC-60794-1-21-E11	Dynamic = 15D, Static = 10D		
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	1000		
Impact strength (N.m)	IEC-60794-1-21-E4	25		
Torsion	IEC-60794-1-21-E7	± 180°		
Temperature Cycling	IEC-60794-1-22-F1	Installation: -10°C to +60°C	Operation: -20°C to +70°C	Storage: -30°C to +70°C
Water Penetration	IEC-60794-1-22-F5B	1m water head, 3m samples, 24 hrs no water leakage		

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.652D andITU-T G.657A1. Refer to specific data sheets for details.

Transmission Characteristics						
Fibre Type	Attenuation coefficient, dB/km (Average/Maximum)			PMD, ps/√km	PMD LDV ps/√km	Cut-off Wavelength (lcc), nm 1310nm
	1310nm	1550nm	1625nm			
G652D** fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0 ,20	≤ 0,08	≤ 1260
G657A1 fibre	≤ 0,35 / 0,36	≤ 0,22 / ≤ 0,23	≤ 0,24 / ≤ 0,26	≤ 0 ,20	≤ 0,08	≤ 1260

\*\* This fibre is also available as a bend insensitive

## Tube / Fibre Standard Colour Code (As per EIA/TIA 598)



## Packing and Lengths

Packing: Wooden drums

Lengths (tolerance ±5%): 2km

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>

## Double Jacket Tight Buffer

a10001:DT001:-F--DE

### Product Details

Anatolia Double Jacket Tight Buffer Fibre Optic Cable is an integral part of the end-to-end fibre optic solution, designed to support enhanced data needs along with future advancing network requirements. Cable contains a single fibre, tight-buffered (coated with a 900 micron buffer over the primary buffer coating) with Kevlar (aramid fibre) strength members and LSZH Inner jacket with Kevlar and Outer LSZH Jacket for indoor/outdoor use.

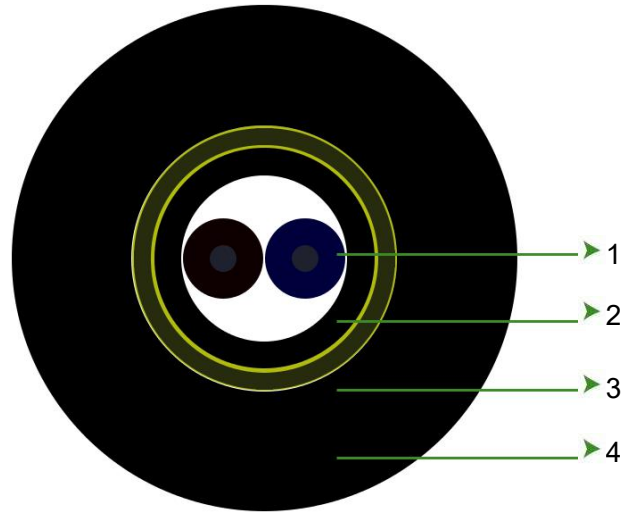
### Product Application

Simplex Cables are used mostly for patch cord and backplane applications. Cable is suitable for use in indoor / outdoor FTTH application in duct, horizontal or riser application. Ideal for applications involving safety requirements in case of fire.

### Features & Benefits

- 900 Microns Tight buffered fibres supports fast field installations
- Easy jacket removal using standard tools
- Small & flexible makes it ideal for confined spaces
- Patch panels & work station equipment connections
- Horizontal & riser distribution in open office environment
- Variant available in terms of color & fibre type
- Building interconnection (Campus LAN)
- Links between electronic equipment & fibre patch panel
- Double jackets provides increased tensile strength, mechanical and ultraviolet protection

### Typical Construction of Cable



1. COLOURED TIGHT BUFFERED FIBRES
2. INNER SHEATH
3. PHERIPHERAL STRENGTH MEMBERS- ARAMID YARNS
4. OUTER SHEATH



FTTH



Totally Dielectric



Water Blocked



High Flexibility

## Performance Standards

Cable complies to the following Standards IEC.60794 series, ANSI/ICEA S-87-640, Telecordia GR-20, ITU-T Recommendations, GR-409, IEC 60332-1, IEC 60332-3-22/24 Flame Standards, CPR certification for LSZH sheath

## Specifications

		Physical Characteristics
Fibre Count		Simplex
Nominal Diameter (mm) ± 0.2mm		4.6
Nominal Weight (kg/km) ± 10%		20
		Mechanical and Environmental Characteristics
Test	Standard / Notes	Product Performance
Max. Tensile Strength (N)	IEC-60794-1-21-E1	800
Bending Radius	IEC-60794-1-21-E11	Dynamic = 10D, Static = 15D (D = Cable diameter)
Crush Resistance (N/100mm)	IEC-60794-1-21-E3	500
Temperature Cycling	IEC-60794-1-22-F1	Installation: -0°C to +60°C Operation: -20°C to +70°C Storage: -20°C to +70°C

\*\* After the test, the change in attenuation shall be ≤ 0.05 dB/km.No damage or crack on cable & no fibre break.

## Cabled Optical Fibres Characteristics

The optical fibres are in accordance to the specifications ITU-T G.657A1, ITU T 651 OM1, OM2, OM3& OM4. Refer to specific data sheets for details

Attenuation Co-efficient, dB/km(Maximum)				
Fibre Type	850nm	1300nm	1310nm	1550nm
G657A1	-	-	< 0,40	< 0,30
OM1	≤ 3.5	≤ 1.5	-	-
OM2	≤ 3.5	≤ 1.5	-	-
OM3	≤ 3.5	≤ 1.5	-	-
OM4	≤ 3.5	≤ 1.5	-	-

## Fibre Standard Colour Code

1	2	3	4	5	6	7	8	9	10	11	12
Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Violet	Pink	Aqua

## Fibre Colour – Natural / Transparent

### Jacket Colour Code

Inner Jacket – White

Outer Jacket - Black

## Packing and Lengths

Packing: Wooden Reels

Lengths (tolerance ±5%): 500, 1000, 2000 meters

Note - Customised drum lengths available on request.

## Sheath printing details

Anatolia < Fibre Type ><Fibre Count><Product Type ><OFC Laser Symbol ><Telephone Symbol ><Month & Year of Production><Cable ID>< Meter Marking>