



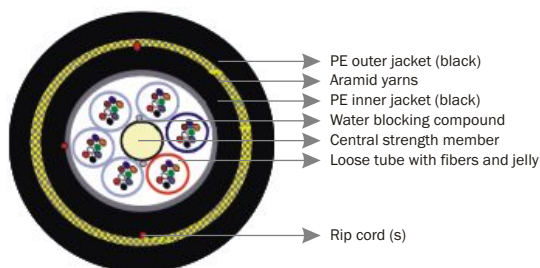
Fiber Optic Cables Specification Datasheets

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Sterlite® AERIAL-LITE™ Fiber Optic Cable Series

Multitube Double Jacket ADSS Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® AERIAL-LITE™ Multitube Double Jacket ADSS Cables are designed having high tensile strength which makes them suitable for aerial applications. The dry core design makes these cables lighter and easier to install. Depending on customer requirement these cables can be designed to take care of span length, wind speed, ice load and other extra loading on cable.

PRODUCT APPLICATION

These cables are used in aerial installation applications.

PRODUCT BENEFITS

These cables can be installed on overhead power lines. They can also be used for duct installation depending on right of way. These cables are easy to install due to their dry core design. They have strain free fibers due to S-Z stranding. Longitudinal water protection is enabled by water blocking compounds in tube and core. There is ease of mid-span access because of multitube design and a ripcord provides for easy stripping of sheath. Dielectric design allows the user to use cable without any grounding.

PRODUCT SPECIFICATIONS

Cable Configuration

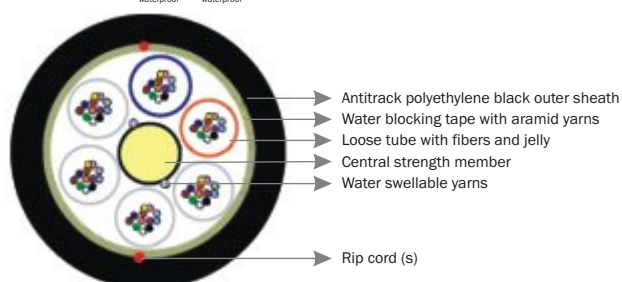
Fiber Count	Cable Diameter	Cable Weight
12	13.5 mm	130 kg/km
24	13.5 mm	130 kg/km
36	13.5 mm	130 kg/km
48	13.5 mm	130 kg/km
60	13.5 mm	130 kg/km
72	13.5 mm	130 kg/km
96	15.5 mm	170 kg/km
144	18.5 mm	220 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	6000 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	4000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	50 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® AERIAL-LITE™ Fiber Optic Cable Series

Multitube Single Jacket ADSS Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® AERIAL-LITE™ Multitube Single Jacket ADSS Cables are smaller in diameter and lighter in weight which enables them to be installed aerially in moderate field conditions. The dry core and single jacket design makes the cable lighter and easier to install. Depending on customer requirement the cable can be designed to take care of span length, wind speed, ice load and other extra loading on cable.

PRODUCT APPLICATION

These cables are used in aerial installation applications for lower span lengths.

PRODUCT BENEFITS

These cables can be installed on poles with lower span lengths. They can also be used for duct installation depending on right of way. These are easy to install due to dry core design. These cables have strain free fibers due to S-Z stranding. Longitudinal water protection is enabled by water blocking compounds in tube and core. There is ease of mid-span access because of multitube design and ripcords are provided for easy stripping of sheath. The dielectric design allows the user to use cable without any grounding.

PRODUCT SPECIFICATIONS

Cable Configuration

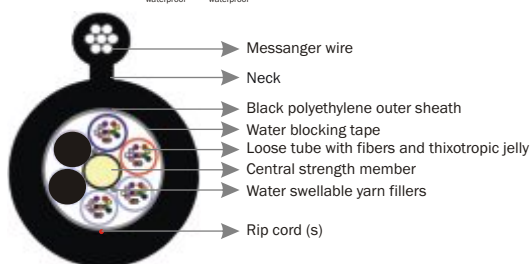
Fiber Count	Cable Diameter	Cable Weight
12	11.5 mm	100 kg/km
24	11.5 mm	100 kg/km
36	11.5 mm	100 kg/km
48	11.5 mm	100 kg/km
60	11.5 mm	100 kg/km
72	11.5 mm	100 kg/km
96	13.0 mm	130 kg/km
144	16.5 mm	200 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	4000 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	2000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	25 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® AERIAL-LITE™ Fiber Optic Cable Series

Multitube Single Jacket Figure-8 Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® AERIAL-LITE™ Multitube Single Jacket Fig. 8 Cables have messenger wire as a support strand which provides high tensile strength to the cable and make them ideal for aerial installation. The dry core and single jacket design makes the cable lighter and easier to install. Depending on customer requirement the cable can be designed to take care of span length, wind speed, ice load and other extra loading on cable by increasing the support strand size.

PRODUCT APPLICATION

These cables are used in aerial installation applications.

PRODUCT BENEFITS

The messenger wire provides required tensile strength recommended for aerial applications. The cable is easy to install due to dry core design & single jacket design makes it light in weight. The cable has strain free fiber due to S-Z stranding. Longitudinal water protection is enabled by water blocking compounds in tube and core. The cable has easy mid-span access because of multitube design and a ripcord is provided for easy stripping of sheath. A web is provided between cable core and strand wire.

PRODUCT SPECIFICATIONS

Cable Configuration

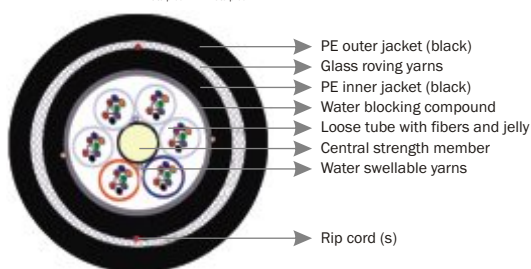
Fiber Count	Cable Diameter	Cable Weight
12	18.5 mm	150 kg/km
24	18.5 mm	150 kg/km
36	18.5 mm	150 kg/km
48	18.5 mm	150 kg/km
60	18.5 mm	150 kg/km
72	18.5 mm	150 kg/km
96	20.5 mm	190 kg/km
144	23.8 mm	240 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	7500 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	2000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	25 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® ARMOR-LITE™ Fiber Optic Cable Series

Multitube Double Jacket Dielectric Armored Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® ARMOR-LITE™ Multitube Double Jacket Dielectric Armored Cables are suitable for direct burial applications due to their robust design and can withstand the most demanding environmental conditions of direct burial. Dry core design makes them light weight and easy to install. Dielectric armoring protects the cables against rodent attacks. Because of their dielectric nature the cables can be laid alongside high voltage lines.

PRODUCT APPLICATION

These cables are used in direct buried applications.

PRODUCT BENEFITS

These cables are easy to install due to dry core design. These can be laid inside ducts if there is a requirement of additional protection. These have strain free fiber due to S-Z stranding. Longitudinal water protection is enabled by water blocking compounds in tube and core. They have easy midspan access because of multitube design. Double jacket and dielectric armoring provides additional protection against crush and impact.

PRODUCT SPECIFICATIONS

Cable Configuration

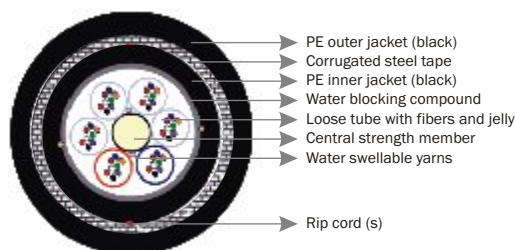
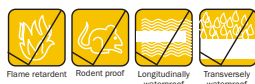
Fiber Count	Cable Diameter	Cable Weight
12	13.5 mm	145 kg/km
24	13.5 mm	145 kg/km
36	13.5 mm	145 kg/km
48	13.5 mm	145 kg/km
60	13.5 mm	145 kg/km
72	13.5 mm	145 kg/km
96	15.0 mm	180 kg/km
144	18.2 mm	230 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	4000 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	4000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	50 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® ARMOR-LITE™ Fiber Optic Cable Series

Multitube Double Jacket Steel Tape Armored Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® ARMOR-LITE™ Multitube Double Jacket Steel Tape Armored Cables are suitable for direct burial applications due to their robust design and can withstand the most demanding environmental conditions of direct burial. Dry core design makes them light weight and easy to install. Steel tape armoring gives excellent protection to cable against rodent attacks. Steel tape can be used as a cable locator after installation.

PRODUCT APPLICATION

These cables are used in direct buried applications.

PRODUCT BENEFITS

These cables are easy to install due to dry core design. These can be laid inside ducts if there is a requirement of additional protection. These have strain free fiber due to S-Z stranding. Longitudinal water protection is enabled by water blocking compounds in tube and core. These have easy mid-span access because of multitube design. Double jacket and steel tape armoring provides additional protection against crush and impact. Steel tape can be used as a cable locator.

PRODUCT SPECIFICATIONS

Cable Configuration

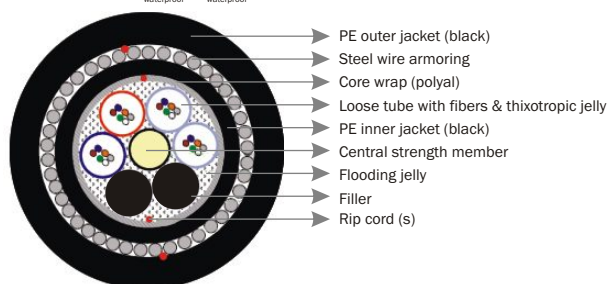
Fiber Count	Cable Diameter	Cable Weight
12	14.4 mm	200 kg/km
24	14.4 mm	200 kg/km
36	14.4 mm	200 kg/km
48	14.4 mm	200 kg/km
60	14.4 mm	200 kg/km
72	14.4 mm	200 kg/km
96	16.2 mm	240 kg/km
144	19.2 mm	325 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	2700 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	4000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	50 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® ARMOR-LITE™ Fiber Optic Cable Series

Multitube Double Jacket Steel Wire Armored Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® ARMOR-LITE™ Multitube Double Jacket Steel Wire Armored Cables are specially designed for underwater applications. Due to their heavy weight cables are submerged in water and are laid in water (Pond / River) beds and remain there undisturbed thereafter. Due to steel wire armoring the cables are also suitable for direct burial application giving protection against rodent attacks.

PRODUCT APPLICATION

These cables are used in pond/ river crossing and direct burial applications.

PRODUCT BENEFITS

The wire armoring makes the cable heavy enough to submerge in water and to reach up to waterbed and get laid there. These cables have strain free fiber due to S-Z stranding. Longitudinal water protection is enabled by water blocking compounds in tube and core. The cables can be offered with laminated aluminum for added moisture protection. Steel wire armoring provides very high tensile strength to the cable.

PRODUCT SPECIFICATIONS

Cable Configuration

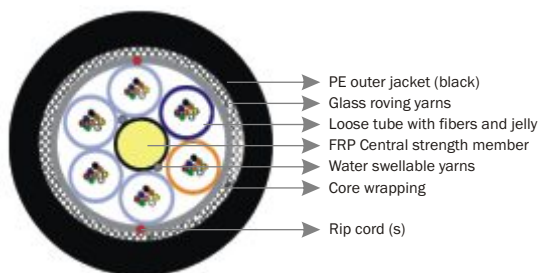
Fiber Count	Cable Diameter	Cable Weight
12	18.0 mm	600 kg/km
24	18.0 mm	600 kg/km
36	18.0 mm	600 kg/km
48	18.0 mm	600 kg/km
72	18.0 mm	600 kg/km
96	19.5 mm	720 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	18000 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	8000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	100 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® ARMOR-LITE™ Fiber Optic Cable Series

Multitube Single Jacket Dielectric Armored Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® ARMOR-LITE™ Multitube Single Jacket Dielectric Armored Cables are suitable for duct applications. Dry core design makes them light weight which makes them easy to install. Single jacket design makes the cables smaller in diameter allowing users to install the cables in smaller sized ducts. Dielectric armoring protects the cables against rodent attacks. Because of their dielectric nature the cables can be laid alongside high voltage lines inside ducts.

PRODUCT APPLICATION

These cables are used in duct installation applications.

PRODUCT BENEFITS

These cables are easy to install due to dry core design. They have strain free fiber due to S-Z stranding. Longitudinal water protection is enabled by water blocking compounds in tube and core. They have easy mid-span access because of multitube design. The cable can be installed either by pulling or by blowing giving user a choice as per his requirements.

PRODUCT SPECIFICATIONS

Cable Configuration

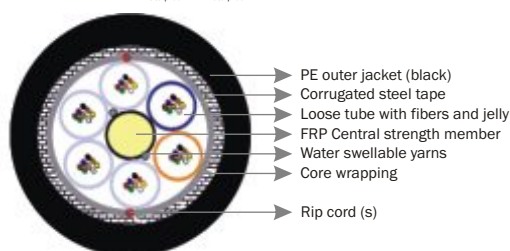
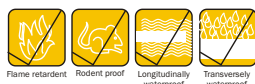
Fiber Count	Cable Diameter	Cable Weight
12	11.5 mm	110 kg/km
24	11.5 mm	110 kg/km
36	11.5 mm	110 kg/km
48	11.5 mm	110 kg/km
60	11.5 mm	110 kg/km
72	11.5 mm	110 kg/km
96	13.2 mm	140 kg/km
144	16.6 mm	225 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	2700 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	2000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	25 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® ARMOR-LITE™ Fiber Optic Cable Series

Multitube Single Jacket Steel Tape Armored Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® ARMOR-LITE™ Multitube Single Jacket Steel Tape Armored Cables are suitable for direct burial applications as well as for duct applications. Dry core design makes them light weight and easy to install. Steel tape armoring gives protection to the cable against rodent attacks. Steel tape can be used as a cable locator after installation.

PRODUCT APPLICATION

These cables are used in direct buried and duct installation applications.

PRODUCT BENEFITS

These cables are easy to install due to dry core design. They have strain free fiber due to S-Z stranding. Longitudinal water protection is enabled by water blocking compounds in tube and core. They have easy mid-span access because of multitube design. Steel tape armoring provides additional protection against crush and impact. Steel tape can be used as a cable locator.

PRODUCT SPECIFICATIONS

Cable Configuration

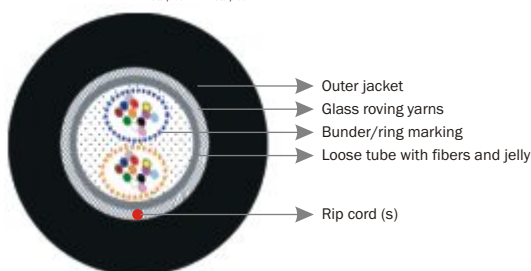
Fiber Count	Cable Diameter	Cable Weight
12	12.6 mm	150 kg/km
24	12.6 mm	150 kg/km
36	12.6 mm	150 kg/km
48	12.6 mm	150 kg/km
60	12.6 mm	150 kg/km
72	12.6 mm	150 kg/km
96	14.2 mm	210 kg/km
144	17.5 mm	270 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	2700 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	4000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	50 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® ARMOR-LITE™ Fiber Optic Cable Series

Unitube Single Jacket Dielectric Armored Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® ARMOR-LITE™ Unitube Single Jacket Dielectric Armored Cables are multipurpose cables designed for diverse needs. These cables can be used in ducts as well as in aerial drop applications if required. Unitube design makes the cable lighter and smaller in diameter which allows ease of installation. For potentially hazardous applications Low Smoke Zero Halogen recommended. These can also be used for outdoor to indoor applications.

PRODUCT APPLICATION

These cables are used in duct installation applications.

PRODUCT BENEFITS

These cables are rodent protected because of dielectric armoring. Longitudinal water protection is enabled by water blocking compounds in tube. Unitube design allows faster preparation of cable in field during installation.

PRODUCT SPECIFICATIONS

Cable Configuration

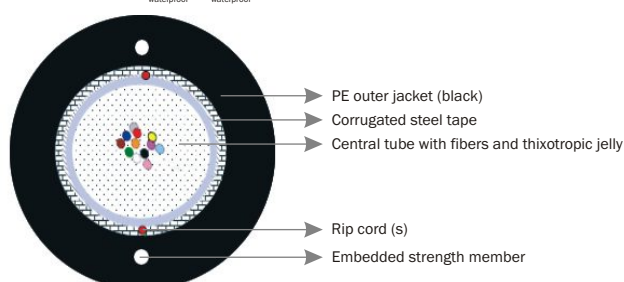
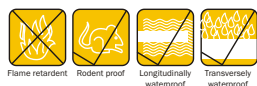
Fiber Count	Cable Diameter	Cable Weight
4	7.0 mm	50 kg/km
6	7.0 mm	50 kg/km
8	7.0 mm	50 kg/km
12	7.0 mm	50 kg/km
24	7.5 mm	58 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	1500 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	2000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	15 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® ARMOR-LITE™ Fiber Optic Cable Series

Unitube Single Jacket Steel Tape Armored Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® ARMOR-LITE™ Unitube Single Jacket Steel Tape Armored Cables are multipurpose cables designed for diverse needs. Their unitube construction makes them smaller in diameter and lighter in weight. The cables have embedded strength members for anti buckling property. Steel tape adds to crush resistance as well as can be used as a cable locator after installation. The cables can also be offered with steel wire as embedded strength member to provide higher tensile strength.

PRODUCT APPLICATION

These cables are used in duct and direct buried installation applications.

PRODUCT BENEFITS

These cables have embedded strength members for anti buckling properties. Longitudinal water protection is enabled by water blocking compounds in tube and core. There is easy access to fiber due to its unitube construction. The cable can be offered with steel wire as embedded strength member for higher tensile strengths.

PRODUCT SPECIFICATIONS

Cable Configuration

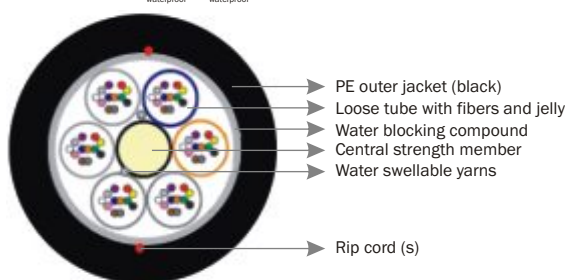
Fiber Count	Cable Diameter	Cable Weight
4	9.0 mm	90 kg/km
6	9.0 mm	90 kg/km
12	9.0 mm	90 kg/km
24	10.0 mm	100 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	1500 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	2000 N/ 100 *100 mm	
Impact test	IEC-60794-1-2-E4	15 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® DUCT-LITE™ Fiber Optic Cable Series

Multitube Single Jacket Duct Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® DUCT-LITE™ Multitube Single Jacket Duct Cables are meant only for duct installation. They can be installed either by pulling or by blowing as per user requirement. Dry core design makes the cable light weight and easy to install. For additional protection special outer jacket can be provided to take care of rodent attacks.

PRODUCT APPLICATION

These cables are used in duct installation applications.

PRODUCT BENEFITS

These cables are recommended for duct installation only. These are easy to install due to dry core design & easy to peel in spite of rugged PE jacket. These have strain free fiber due to S-Z stranding and loose tube design. Longitudinal water protection is enabled by water blocking compounds in tube and core. These have easy mid-span access because of multitube design. These are available with outer jacket fully rodent protected (recommended).

PRODUCT SPECIFICATIONS

Cable Configuration

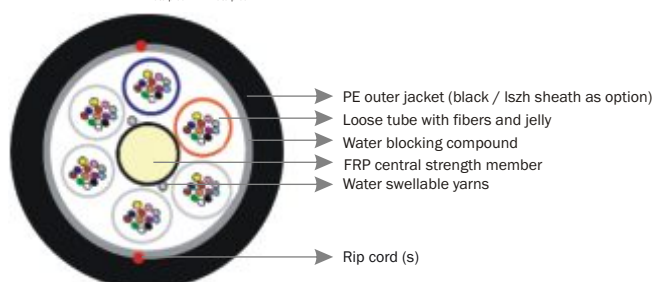
Fiber Count	Cable Diameter	Cable Weight
12	11.0 mm	100 kg/km
24	11.0 mm	100 kg/km
36	11.0 mm	100 kg/km
48	11.0 mm	100 kg/km
60	11.0 mm	100 kg/km
72	11.0 mm	100 kg/km
96	12.5 mm	130 kg/km
144	15.3 mm	190 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	2700 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	2000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	25 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® Micro DUCT-LITE™ Fiber Optic Cable Series

Multitube Single Jacket Micro Duct Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® Micro DUCT-LITE™ Multitube Single Jacket Micro Duct Cables are meant for installation in micro ducts by blowing only. Micro duct cables can be installed in previously installed ducts. Their dry core, less diameter design makes them light weight and easy to install by blowing. These cables are designed especially for enhanced blowing performance. Looking at future telecom needs these cables are an excellent choice as they are installed at a very faster pace as compared to traditional cables.

PRODUCT APPLICATION

These cables are used for blowing in micro duct installation applications.

PRODUCT BENEFITS

These cables are installed in micro ducts by blowing. Dry core, less diameter and reduced weight makes them easy to install. These can be installed in pre installed ducts by installing micro ducts – No need to take new right of way. These have strain free fiber due to S-Z stranding and loose tube design. Longitudinal water protection is enabled by water blocking compounds in tube and core. These have easy mid-span access because of multitube design.

PRODUCT SPECIFICATIONS

Cable Configuration

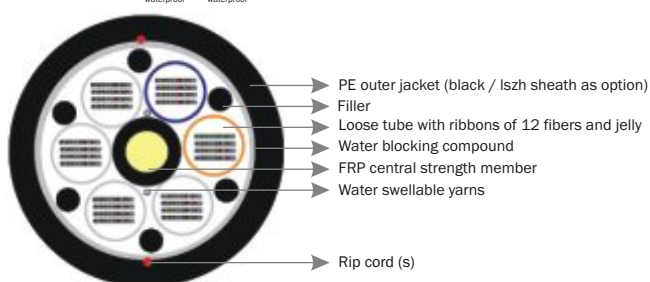
Fiber Count	Cable Diameter	Cable Weight
12	5.9 mm	34 kg/km
24	5.9 mm	34 kg/km
48	5.9 mm	34 kg/km
60	5.9 mm	34 kg/km
72	5.9 mm	34 kg/km
96	6.9 mm	45 kg/km
144	9.2 mm	75 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	700 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	1000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	5 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	15 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	15 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	No water leakage after 24 hours.

Sterlite® RIBBON-LITE™ Fiber Optic Cable Series

Multitube Single Jacket Ribbon Fiber Optic Cable



PRODUCT DESCRIPTION

Sterlite® RIBBON-LITE™ Multitube Single Jacket Ribbon Cable combines robust performance for duct installations with the productivity of high-count mass fusion splicing. The optical fibers are arranged into ribbon units by placing the fibers in a flat array of 12 color-coded fibers bonded together by a UV-curable matrix material. As splicing time is lesser compared to regular cables, these are best used for high fiber count requirements.

PRODUCT APPLICATION

These cables are used in duct installation applications.

PRODUCT BENEFITS

These cables have high fiber count leading to faster splicing. Precise fiber and ribbon geometries result in excellent mass-fusion splicing yields. These are easy to install due to dry core design & easy to peel but rugged PE jacket. Fiber ribbons are individually marked for easy identification. Longitudinal water protection is enabled by water blocking compounds in tube and core. They have easy mid-span access because of multitube design.

PRODUCT SPECIFICATIONS

Cable Configuration

Fiber Count	Cable Diameter	Cable Weight
96	17.0 mm	175 kg/km
144	18.5 mm	200 kg/km
288	22.0 mm	320 kg/km
432	24.5 mm	360 kg/km
576	28.0 mm	510 kg/km

Mechanical & Environmental Characteristics

Test	Test Standard	Testing Value	Acceptance Criteria
Max tensile strength	IEC-60794-1-2-E1	4000 N	Change in Attn < 0.05 dB/Km. No damage or crack to cable & no fiber break.
Compression test	IEC-60794-1-2-E3	2000 N / 100 *100 mm	
Impact test	IEC-60794-1-2-E4	25 Nm	
Torsion test	IEC-60794-1-2-E7	±180°	
Repeated bending test	IEC-60794-1-2-E6	20 D for 20 Cycles	
Cable bend test	IEC-60794-1-2-E11	20 D for 4 turns, 10 Cycles	
Temperature cycling test	IEC-60794-1-2-F1	-40°C to +70°C	No water leakage after 24 hours.
Water penetration test	IEC-60794-1-2-F5B	3m sample under 1 meter water head.	

Standard Product Features

LENGTH DETAILS

Standard length per reel 2 Km/4 Km. Lengths per reel as per customer request are also available.

PRODUCT OPTIONS

Available with all kind of fibers both 'single mode' & 'multi mode'.

MANUFACTURING PROCESS

Sterlite® controls every stage of the manufacturing process so that quality is built in to every meter of cable, rather than selected out at the end through testing. To ensure the accuracy and precision of the manufacturing process, Sterlite routinely calibrates and recertifies process equipment and measurement benches against internationally traceable standards from NPL/NIST, and follow test methods compliant with EIA/TIA, IEC and ITU standards.

INTERNATIONAL STANDARDS

Sterlite® Fiber Optic Cable Series complies with or exceed ITU Recommendation G.651 to G.657, IEC 60793 & 60794.

SERVICE USP's

- Complete range of fiber optic cable series
- World-wide sales support
- Web-based order tracking & customer support
- Specialized technical support

TECHNICAL SPECIFICATIONS

The above designs are only a sample of the options available from Sterlite. Contact our sales team for a cable designed to your exact specifications.

DISCLAIMER

Sterlite's policy of continuous improvement may result in a change in specifications without prior notice. Any warranty of any nature relating to any Sterlite product is only contained in the written agreement between Sterlite Technologies Limited and the direct purchaser of such product(s).

Notes

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