

Fibre Optic Cable

Aerial Dielectric Self Supporting (ADSS)

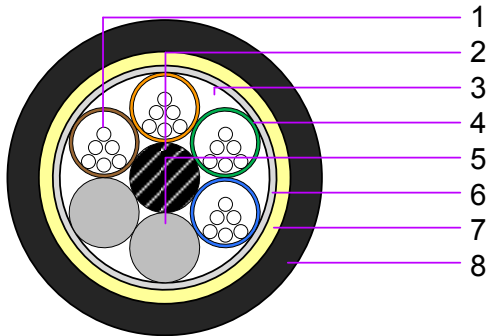
Product Code: ADSSLT

Feature

- Standard fibre count : 2 – 144 fibres
- Excellent mechanical and environmental performance
- Protection for lightning and electrical interference
- Dry or jelly filled type

Application

- Small diameter and light weight
- Subscriber network system
- Long haul communication system



1 Optical Fibre	Single mode optical fibre (SMF), multi mode optical fibre (MMF), non – zero dispersion shifted optical fibre (NZ – DSF)
2 Central Strength Member	Fibre reinforced plastic (FRP)
3 Moisture Barrier	Water blocking jelly filling compound or water blocking yarn
4 Loose Tube	Thermoplastic material (polybutylene terephthalate)
5 Filler	Polyethylene string
6 Wrapping Tape	Non – hygroscopic plastic tape or water blocking tape
7 Armoured Layer	Aramid yarn (Lashing aerial type: steel tape)
8 Outer Sheath	Black polyethylene

Cable Specification

No. of fibres per tube	No. of fibres	Outer dia.(mm)	Cable wt.(kg/km)
6	2-30	11.7	100
	36-60	12.3	110
	62-72	12.5	115
12	74-96	14.0	145
	98-120	15.6	180
	122-144	17.2	215

Mechanical & Environmental Characteristics

Characteristic	Unit	Specification	
Allowable Tensile Strength	kgf	150-600	
Crush Resistance	kgf/cm	20	
Minimum bending dia.	mm	Dynamic	20 times of cable diameter
		Static	10 times of cable diameter
Operating temperature range	°C	-40 - +70°C	
Delivery length	Km	1-6	

Fibre Optic Cable

Aerial Dielectric Self Supporting (ADSS)

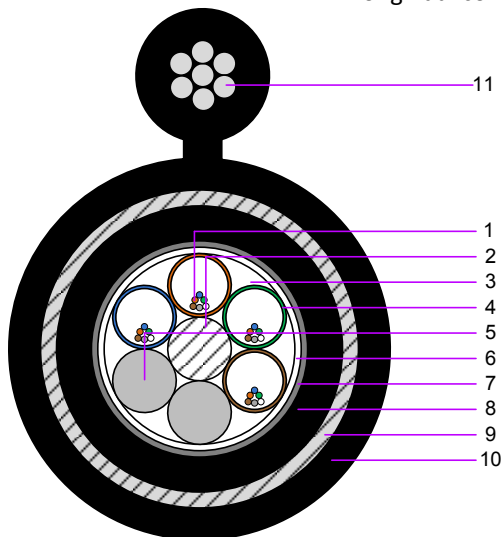
Product Code: ADSSLTF8

Feature

- Standard fibre count : 2 – 144 fibres
- Excellent mechanical and environmental performance
- Dry or jelly filled type

Application

- Local area network (LAN)
- Subscriber network system
- Long haul communication system



1 Optical Fibre	Single mode optical fibre (SMF), multi mode optical fibre (MMF), non-zero dispersion shifted optical fibre (NZ-DSF)
2 Central Strength Member	Galvanized steel wire or fibre reinforced plastic (FRP) * ADSS type – FRP
3 Moisture Barrier 1	A water blocking jelly filling compound or water blocking tape
4 Loose Tube	Thermoplastic material (polybutylene terephthalate)
5 Filler	Polyethylene string
6 Wrapping Tape	Non-hygroscopic plastic tape or water blocking tape
7 Moisture Barrier 2	Laminated aluminium tape
8 Inner Sheath	Black polyethylene
9 Armour Layer	Copolymer coated steel tape
10 Outer Sheath	Black polyethylene
11 Suspension Wire	Galvanized steel wire (7/2.0 mm, 7/1.6mm, 7/1.2mm, 7/1.0mm steel wire)

Cable Specification

No. of fibres per tube	No. of fibres	Outer dia.(mm)	Cable wt.(kg/km)
6	2-36	14.6/25.6	418
	48 -72	15.2/26.2	433
	74-96	16.6/27.6	467
12	98-120	18.2/29.2	511
	122-144	19.8/30.8	560

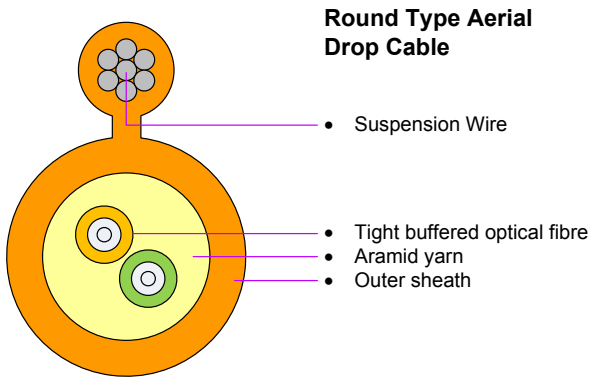
Mechanical & Environmental Characteristics

Characteristic	Unit	Specification
Allowable Tensile Strength	kgf	500-1500
Crush Resistance	kgf/cm	30
Minimum bending dia.	Dynamic	20 times of cable diameter
	Static	10 times of cable diameter
Operating temperature range	°C	-40 - +70°C
Delivery length	Km	1-4

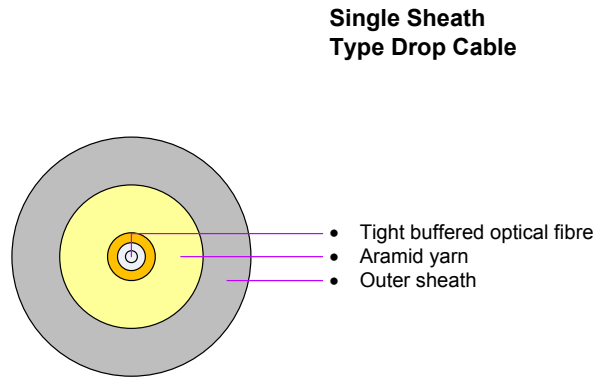
Fibre Optic Cable

Aerial Suspension Lead in Cable

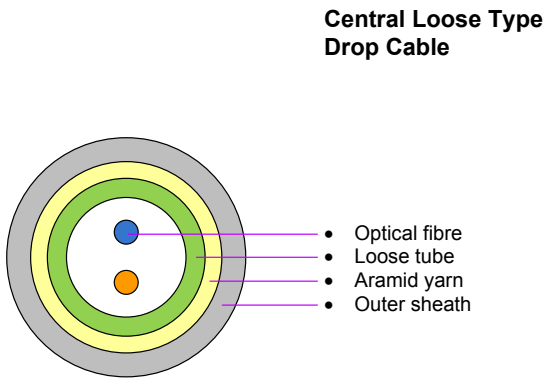
Product Code: ALIC



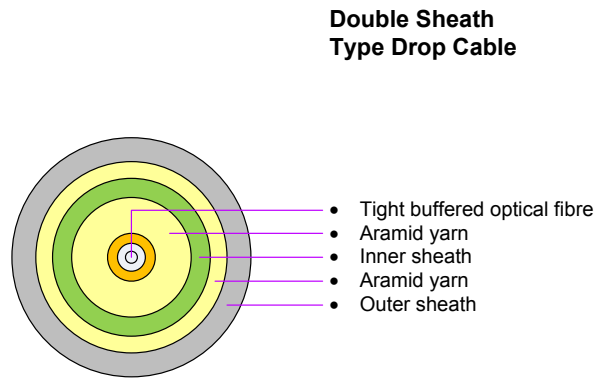
Round Type Aerial Drop Cable



Single Sheath Type Drop Cable

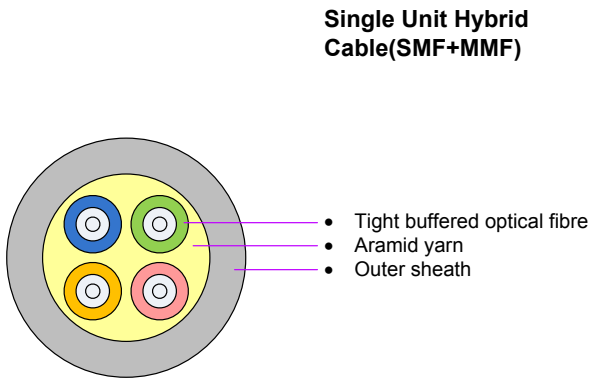


Central Loose Type Drop Cable

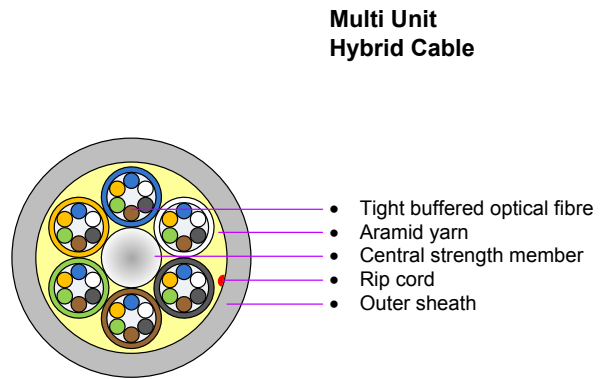


Double Sheath Type Drop Cable

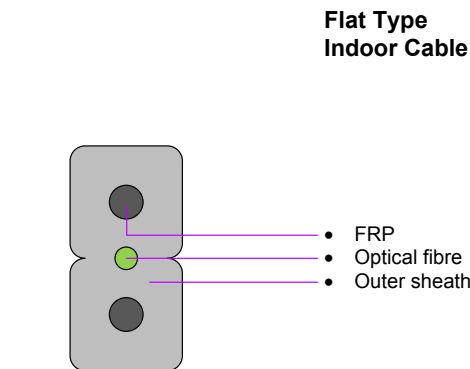
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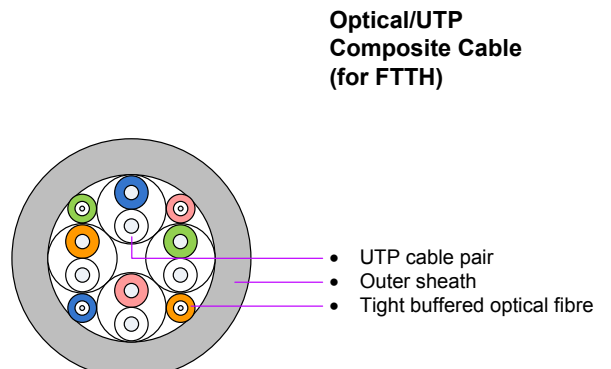
Single Unit Hybrid Cable (SMF+MMF)



Multi Unit Hybrid Cable



Flat Type Indoor Cable



Optical/UTP Composite Cable (for FTTH)

Fibre Optic Cable

Al Covered Stainless Steel Loose Tube Type OPGW

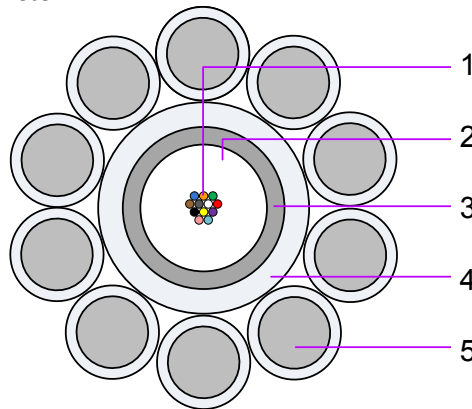
Product Code: OPGWALLT

Feature

- Standard 6 to 48 fibre count
- Power line protection
- Good resistance to strong winds, lightning and short circuit current
- Excellent water resistance performance
- Maintenance data information system
- Light weight and small diameter

Application

- ITU-T G. 650, 651, 652, 655
- IEEE 1138, IEC 60793, IEC 60794



1 Optical Fibre

Single mode optical fibre (SMF), multi mode optical fibre (MMF), non – zero dispersion shifted optical fibre (NZ – DSF)

2 Jelly Compound

Jelly compound

3 Stainless Steel Tube

Stainless steel loose tube

4 Al Tube

Aluminium Tube

5 AS wire or Al alloy

Aluminium clad steel wire or Al alloy wire

Cable Specification

Item	Unit	Specifications					
Sectional Area	mm ²	83	68	60	105	85	74
No. of fibres	Core	6-24			48		
Construction	No./mm	1/5.5 AL tube + 8/3.3 AS	1/5.5 Al tube + 9/2.75 AS	1/5.5/Al tube + 10/2.4 AS	1/6.2 Al tube + 10/2.4 AS	1/6.2 Al tube + 9/3.1 AS	1/6.2 Al tube + 10/2.7 AS
Outer diameter	mm	12.1	11.0	10.3	13.7	12.4	11.6
Unit weight	Kg/km	520	420	365	665	530	450
Min. tensile load	Kgf	8300	6500	5500	10700	8250	6950
Short circuit current capacity	kA ² s	40	28	23	64	44	35
Modulus of elasticity	Kgf/mm ²	14800	14500	14200	15000	14600	14400
Linear expansion coefficient	/°C	13.4x10 ⁻⁶	13.6x10 ⁻⁶	13.8x10 ⁻⁶	13.3 x10 ⁻⁶	13.5 x10 ⁻⁶	13.7 x10 ⁻⁶
Max. allowable temperature	°C	200	200	200	200	200	200
Delivery length	Km	1-6	1-6	1-6	1-6	1-6	1-6

Fibre Optic Cable

Stainless Steel Loose Tube Type

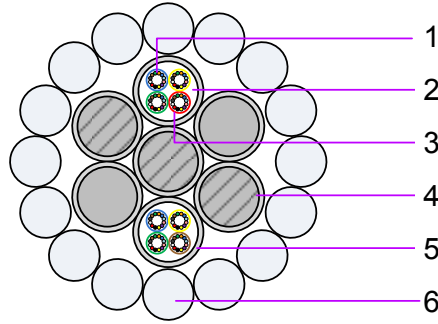
Product Code: OPGW2TLT

Feature

- 96 Fibre count
- Excellent crush resistance performance
- Power line protection
- Good resistance to strong winds, lightning and short circuit current

Application

- ITU-T G. 650, 651, 652, 655
- IEEE 1138, IEC 60793, IEC 60794



1 Optical Fibre

Single mode optical fibre (SMF), multi mode optical fibre (MMF), non – zero dispersion shifted optical fibre (NZ – DSF)

2 Filling Compound

Jelly compound

3 Fibre Bundle

Binder yarn

4 AS wire

Aluminium clad steel wire

5 Steel tube

Stainless steel tube

6 Al alloy

Aluminium alloy wire

Cable Specification

Item	Unit	Specifications
Sectional Area	mm ²	AS wire 35
		Al Alloy 115
No. of fibres	Core	96
Construction		
·Central AS Wire		1/3.85
·Steel tube		2/3.8
·1 st Layer AS wire	No./mm	2/3.85
·1 st Layer Al alloy		2/3.85
2 nd Layer Al alloy		16/2.7
Outer diameter	mm	16.95
Unit weight	Kg/km	590
Ultimate tensile strength	kN	65.8
Short circuit current capacity	kA ² s	106
Linear expansion coefficient	/°C	18.8x10 ⁻⁶
Max. allowable temperature	°C	200
Delivery length	Km	4

Identification of Optical Fibre

No. of fibre	Colour
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
10	Violet
11	Pink
12	Aqua

Fibre Optic Cable

Central Stainless Steel Loose Tube Type OPGW

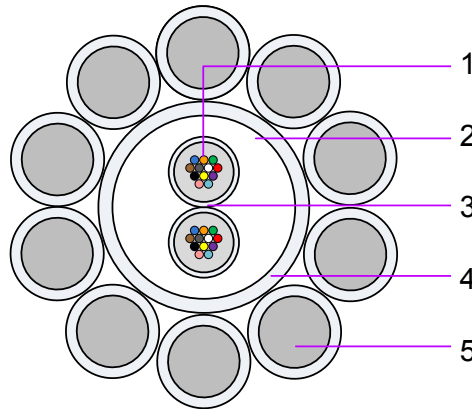
Product Code: OPGWCSLT

Feature

- Standard 6 to 48 fibre count
- Excellent crush resistance performance
- Maintenance data information system
- Light weight and small diameter
- Power line protection
- Good resistance to strong winds, lightning and short circuit current

Application

- ITU-T G. 650, 651, 652, 655
- IEEE 1138, IEC 60793, IEC 60794



1 Optical Fibre

Single mode optical fibre (SMF), multi mode optical fibre (MMF), non – zero dispersion shifted optical fibre (NZ – DSF)

2 Jelly Compound

Jelly compound

3 Colour Binder

Polyester yarns

4 Stainless Steel Tube

Stainless steel loose tube

5 AS wire or Al alloy

Aluminium clad steel wire or Al alloy wire

Cable Specification		Specifications		
Item	Unit			
Sectional Area	mm ²	58	68	75
No. of fibres	Core	24	36	48
Construction	No./mm	1/3.5 SSLT	1/3.8 SSLT	1/4.0 SSLT
		+ 6/3.5 AS	+ 6/3.8 AS	+ 6/4.0 AS
Outer diameter	mm	10.5	11.4	12
Unit weight	Kg/km	410	480	530
Min. tensile load	Kgf	7000	8000	9000
Short circuit current capacity	kA ² s	15	21	26
Modulus of elasticity	Kgf/mm ²	16500	16500	16500
Linear expansion coefficient	/°C	13x10 ⁻⁶	13x10 ⁻⁶	13x10 ⁻⁶
Max. allowable temperature	°C	200	200	200
Delivery length	Km	1-6	1-6	1-6

Fibre Optic Cable

Non-metallic Loose Tube Type OPGW

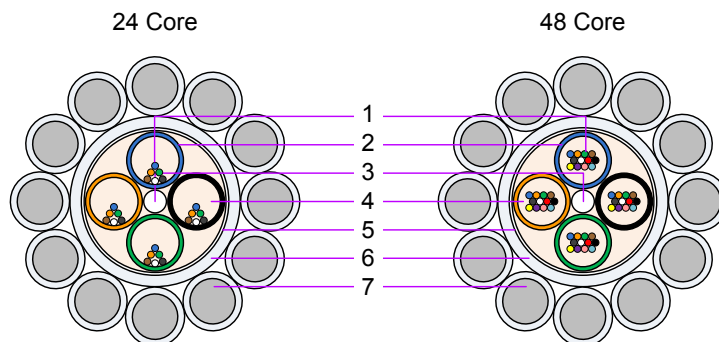
Product Code: OPGWNMLT

Feature

- Standard 6 to 48 fibre count
- Power lines protection
- Good resistance to strong winds, lightning and short circuit current
- Excellent water resistance performance
- Maintenance data information system

Application

- ITU-T G. 650, 651, 652, 655
- IEEE 1138, IEC 60793, IEC 60794



1 Optical Fibre

2 Loose Tube

3 Central Member

4 Filling Compound

5 Wrapping Tape

6 Al Tube

7 AS wire or Al alloy

Single mode optical fibre (SMF), multi mode optical fibre (MMF), non – zero dispersion shifted optical fibre (NZ – DSF)

Thermoplastic material (polybutylene terephthalate)

Fibre reinforced plastic (FRP)

Jelly compound

Heat resistance tape

Aluminium tube

Aluminium clad steel wire or Al alloy wire

Cable Specification

Item	Unit	Specifications				
		70	100	100	200	200
Sectional Area	mm ²					
No. of fibres	Core	24	24	48	24	48
Construction	No./m m	1/8.7	1/8.7	1/9.7	1/8.7	1/9.7
		OP+14/ 2.43 AS	OP+11/ 3.34 AS	OP+12/ 3.31 AS	OP+10/ 3.8 AS	OP+11/ 3.74 AS
Outer diameter	mm	13.6	15.4	16.4	16.3	17.2
Unit Weight	Kg/km	550	760	820	875	940
Min. tensile load	Kgf	7880	11700	12500	13500	14500
Short Circuit current capacity	kA ² s	66	105	125	130	155
Modulus of elasticity	Kgf/mm ²	12600	13400	13300	13700	13600
Linear expansion coefficient	/°C	14.7x10 ⁻⁶	14.2x10 ⁻⁶	14.3x10 ⁻⁶	14.0x10 ⁻⁶	14.1x10 ⁻⁶
Max Allowable temperature	°C	200	200	200	200	200
Delivery length	Km	1-6	1-6	1-6	1-6	1-6

Identification of Optical Fibre

No. of fibre	Colour
1	Blue
2	Orange
3	Green
4	Brown
5	Slate
6	White
7	Red
8	Black
9	Yellow
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