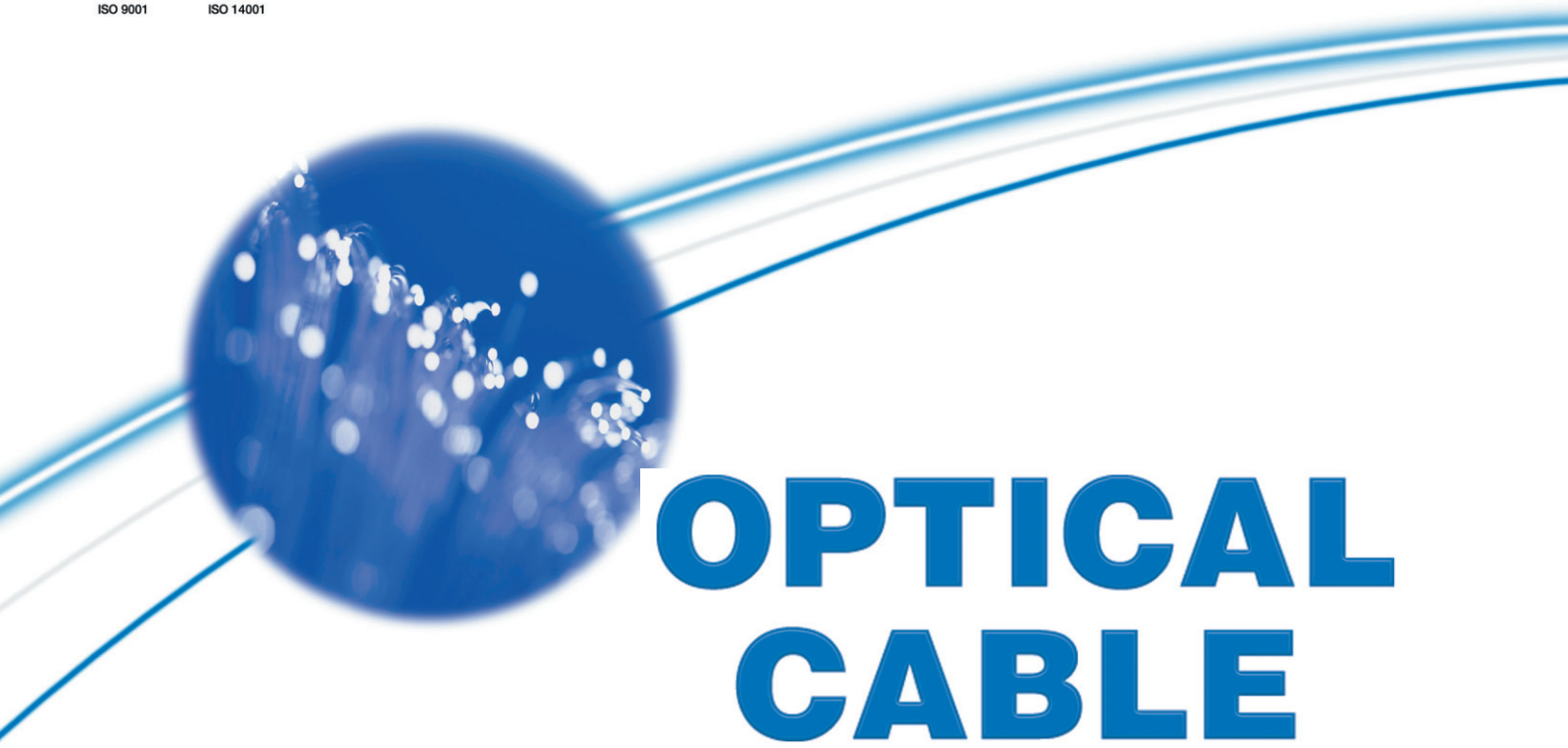
ISO 9001

ISO 14001



OPTICAL CABLE

GAON CABLE CO., LTD.

CONTENTS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Optical Fiber

Description

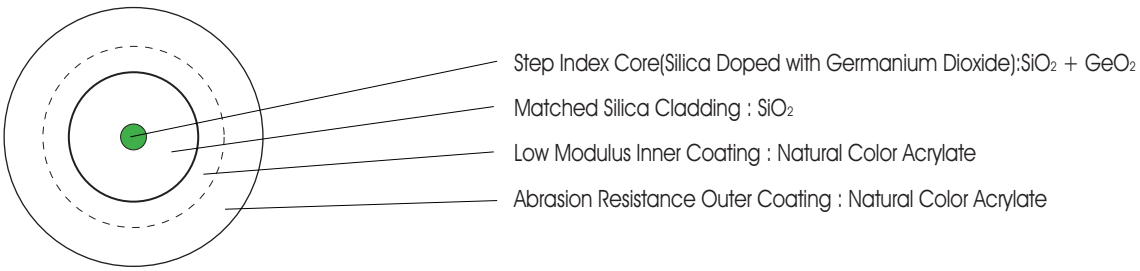
GAON Cable's standard single mode fiber is optimized for use in the 1310nm wavelength and 1550nm wavelength region.
A dual protective acrylate coating is applied over the fiber cladding to cushion the fiber against microbending losses, provide abrasion resistance, and preserve the strength of the glass. And also GAON Cable's WideBand™ Fiber, full spectrum capable, provides a perfect fiber solution through the bandwidth and distance for standard single mode, metro/access and broadband networks.
Especially WideBand™ Fiber is optimized in 1265nm to 1625nm range by achieving "Low Water Peak Attenuation" at E-band(1383nm). Hydrogen aging protections are inherent.

GAON Cable's standard single mode fiber and WideBand™ Fiber are available for application in loose tube type optical cable, ribbon type cable and other cable designs.

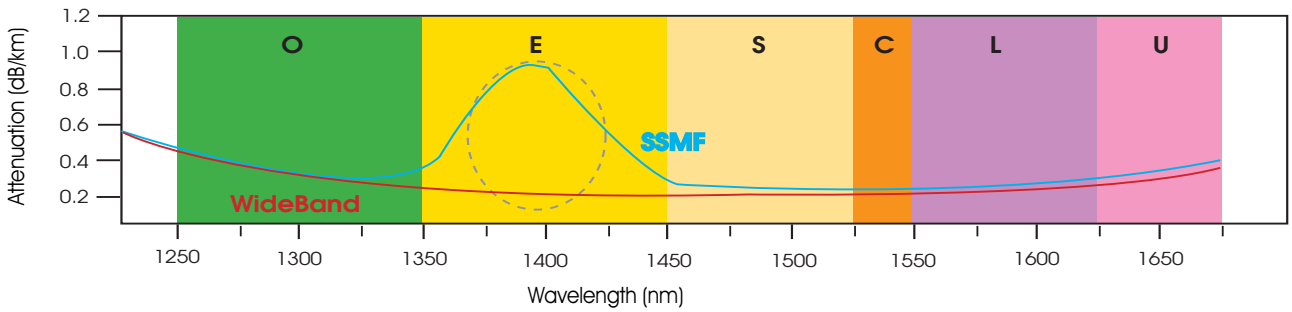
Features & Benefits

High Transmission capability at 1310nm, 1550nm for standard single mode fiber
Full spectrum capable at 1265 nm ~ 1625nm for WideBand™ Fiber
Matched cladding design for excellent microbending resistance
Excellent geometrical properties for low splice loss control
Mechanically strippable coating for easy field application
Ultra low PMD and superior performance at high/low temperature environments
Optimized for application in various types of cable design

Cross Section of Single Mode Fiber



Attenuation vs. Wavelength



Optical Fiber

Optical Specifications

▶ Attenuation

Wavelength(nm)	Attenuation(dB/km)
1310nm	≤ 0.35
1383nm	≤ 0.30**
1550nm	≤ 0.21
1625nm	≤ 0.24

** Attenuation at 1383nm is only applied for WideBand™ Fiber.

▶Attenuation uniformity

No point discontinuity greater than 0.1dB at 1310nm and 1550nm

▶ Attenuation vs. wavelength

Wavelength(nm)	Attenuation(dB/km)
1285 ~ 1330	Att. 1310 ± 0.05
1525 ~ 1565	≤0.03 (Max. - Min.)
1565 ~ 1610	≤0.03 (Max. - Min.)

▶Attenuation with bending

Mandrel Diameter(mm)	Number of Turns	Wavelength (nm)	Induced Attenuation(dB)
32	1	1550	≤ 0.5
50	100	1310	≤ 0.05
50	100	1550	≤ 0.1
60	100	1625	≤0.1

▶Chromatic dispersion

Dispersion (ps/nm.km)	1285 ~ 1330nm	≤ 2.8
	1550nm	≤ 17.5
Zero Dispersion Wavelength(λo) (nm)		1300~1324
Zero Dispersion Slope(S_o) (ps/nm^2.km)		≤ 0.092

▶Polarization mode dispersion

PMD Link Value (ps/√km)	≤ 0.1
Maximum Individual Fiber (ps/√km)	≤ 0.2

▶Cutoff wavelength

Fiber Cutoff Wavelength(λc) (nm)	1150~1330
Cable Cutoff Wavelength(λcc) (nm)	≤ 1260

Mode field diameter

Wavelength(nm)	MFD(㎛)
1310	9.3 ± 0.45
1550	10.3 ± 0.5

Geometrical specifications

Cladding Diameter(㎛)	125 ± 1.0
Core/Cladding Concentricity(㎛)	≤ 0.8
Cladding Non-Circularity(%)	≤ 0.8
Coating Diameter (㎛)	245 ± 10
Coating/Cladding Concentricity(㎛)	≤ 10
Fiber Curl(m)	≥ 4

Mechanical specifications

▶Proof test

The entire fiber length is subjected to a tensile proof stress ≥100 kpsi(0.7GN/m^2)

▶Coating strip force : 1.3N ≤ S.F ≤ 8.9N

Environmental specifications

Test Condition	Induced Attenuation(dB/km)	
	1310nm	1550nm
Temperature Dependence(-60℃ to +80℃)	≤ 0.05	≤ 0.05
Temp-Humid Cycling(-10℃ to+85℃)(85~98%RH)	≤ 0.05	≤ 0.05
Water Immersion(23±2℃)	≤ 0.05	≤ 0.05
Heat Aging(85±2℃)	≤ 0.05	≤ 0.05

Packing

Standard fiber length per reel is 25.2km.

▶Standard reel Size

Flange Diameter(mm)	250
Barrel Diameter(mm)	160
Internal Width(mm)	95
External Width(mm)	115
Spindle Hole Inner Diameter(mm)	25.5

Loose Tube Jelly Filled/ *Non-Armored, Single Jacket*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system
Inter building & communication link

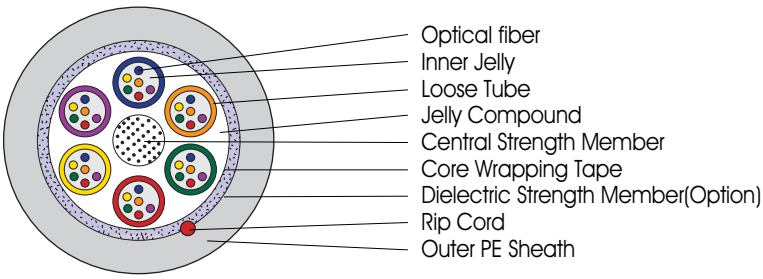
Features

Essential for Duct installation
Light weight & flexibility
Distinguishable by color of fiber & loose tube
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 288Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	10.5	105	210	105
38~ 72Core	1~ 6	1~12	11.5	120	230	115
74~ 96Core	7~ 8	1~12	13.0	160	260	130
98~120Core	9~10	1~12	14.5	190	290	145
122~144Core	11~12	1~12	16.0	250	320	160
146~288Core	13~24	1~12	19.5	330	390	195

Cable Performance

- Max. Tensile Load : 2700N
- Crush resistance : 200N/cm
- Temperature range
  Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
  Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
  Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Jelly Filled/ *LAP, Single Jacket*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system
Inter building & communication link

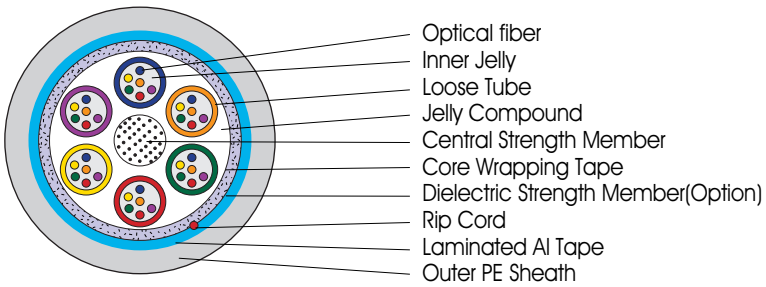
Features

Essential for Duct installation
Light weight & flexibility
Distinguishable by color of fiber & loose tube
Essential for Moisture Protection
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 288Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	11.5	125	230	115
38~ 72Core	1~ 6	1~12	12.0	140	240	120
74~ 96Core	7~ 8	1~12	14.0	185	280	140
98~120Core	9~10	1~12	15.5	220	310	155
122~144Core	11~12	1~12	17.0	280	340	170
146~288Core	13~24	1~12	20.5	370	410	205

Cable Performance

- Max. Tensile Load : 2700N
- Crush resistance : 200N/cm
- Temperature range
  Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
  Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
  Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Jelly Filled/ *Steel Tape Armored, Single Jacket*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

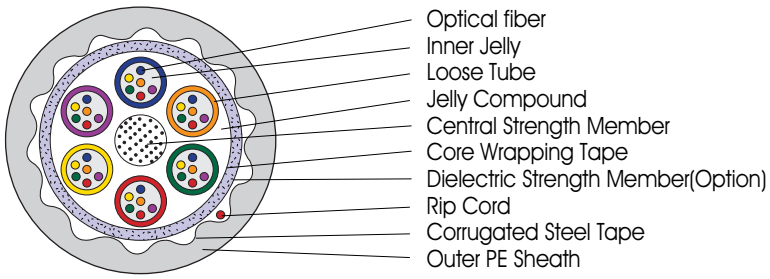
Features

Essential for Duct & Lashed aerial installation
Light weight
Distinguishable by color of fiber & loose tube
Essential for anti-rodent
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 288Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	12.0	165	240	120
38~ 72Core	1~ 6	1~12	12.5	185	250	125
74~ 96Core	7~ 8	1~12	14.5	230	290	145
98~120Core	9~10	1~12	16.0	270	320	160
122~144Core	11~12	1~12	17.5	340	350	175
146~288Core	13~24	1~12	21.0	440	420	210

Cable Performance

- Max. Tensile Load : 2700N
- Crush resistance : 200N/cm
- Temperature range
  Installation : -30°C ~ +60°C (-22°F ~ +140°F)
  Operation : -40°C ~ +70°C (-40°F ~ +158°F)
  Storage : -40°C ~ +70°C (-40°F ~ +158°F)

Loose Tube Jelly Filled/ *Steel Tape Armored, Double Jacket*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

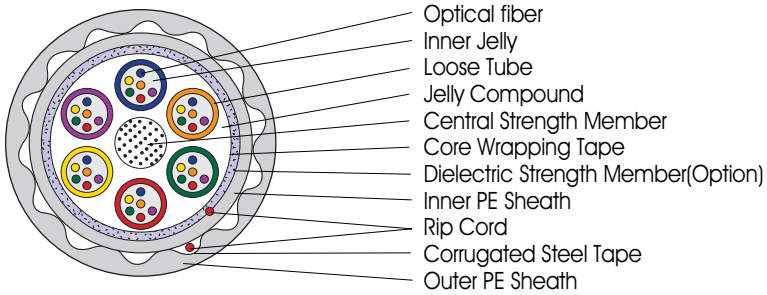
Features

Essential for Direct buried installation
Essential for Lashed aerial installation
Distinguishable by color of fiber & loose tube
Essential for anti-rodent
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 288Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	14.0	210	280	140
38~ 72Core	1~ 6	1~12	14.5	230	290	145
74~ 96Core	7~ 8	1~12	16.5	280	330	165
98~120Core	9~10	1~12	18.0	325	360	180
122~144Core	11~12	1~12	19.5	400	390	195
146~288Core	13~24	1~12	23.0	510	460	230

Cable Performance

- Max. Tensile Load : 2700N
- Crush resistance : 200N/cm
- Temperature range
  Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
  Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
  Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Jelly Filled/ *LAP, Single Jacket, Self-Support*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

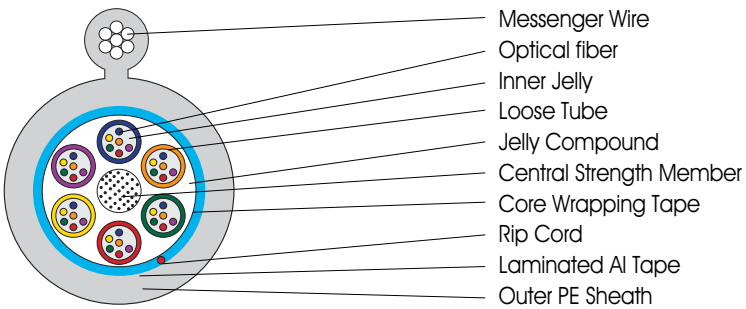
Features

Essential for Aerial installation
Non-necessary for suspension wire
Decrease in installation cost
Distinguishable by color of fiber & loose tube
Essential for moisture protection
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable Core : 2 ~ 144Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	11.5 * 23.5	210	230	115
38~ 72Core	1~ 6	1~12	12.0 * 24.0	230	240	120
74~ 96Core	7~ 8	1~12	14.0 * 26.0	280	280	140
98~120Core	9~10	1~12	15.5 * 27.5	325	310	155
122~144Core	11~12	1~12	17.0 * 29.0	400	340	170

Cable Performance

▶ Crush resistance : 200N/cm

▶ Temperature range
Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Jelly Filled/ *Steel Tape Armored, Double Jacket, Self-Support*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

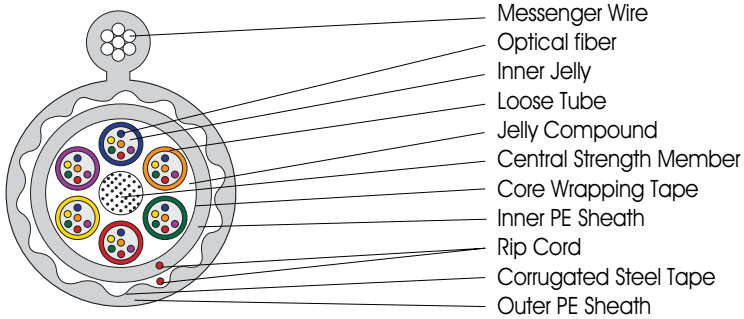
Features

Essential for Aerial installation
Non-necessary for suspension wire
Decrease in installation cost
Distinguishable by color of fiber & loose tube
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 144Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	14.0 * 26.0	415	280	140
38~ 72Core	1~ 6	1~12	14.5 * 26.5	435	290	145
74~ 96Core	7~ 8	1~12	16.5 * 28.5	485	330	165
98~120Core	9~10	1~12	18.0 * 30.0	530	360	180
122~144Core	11~12	1~12	19.5 * 31.5	605	390	390

Cable Performance

▶ Crush resistance : 200N/cm

▶ Temperature range
Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Dry Core / *Non-Armored, Single Jacket*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system
Inter building & communication link

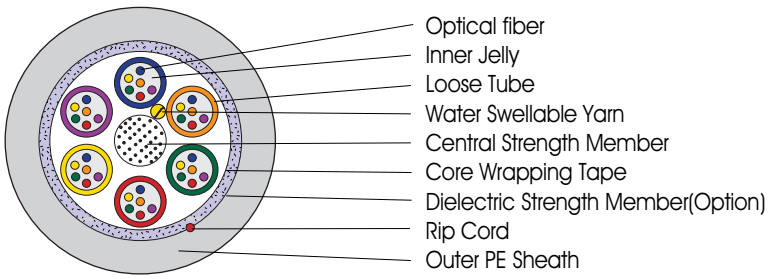
Features

Essential for Duct & Lashed aerial installation
Light weight & flexibility
Effective installation
Distinguishable by color of fiber & loose tube
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 288Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	11.0	105	220	110
38~ 72Core	1~ 6	1~12	11.5	120	230	115
74~ 96Core	7~ 8	1~12	13.0	150	260	130
98~120Core	9~10	1~12	14.5	180	290	145
122~144Core	11~12	1~12	16.0	240	320	160
146~288Core	13~24	1~12	19.0	280	380	190

Cable Performance

- Max. Tensile Load : 2700N
- Crush resistance : 200N/cm
- Temperature range
  Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
  Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
  Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Dry Core / *LAP, Single Jacket*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system
Inter building & communication link

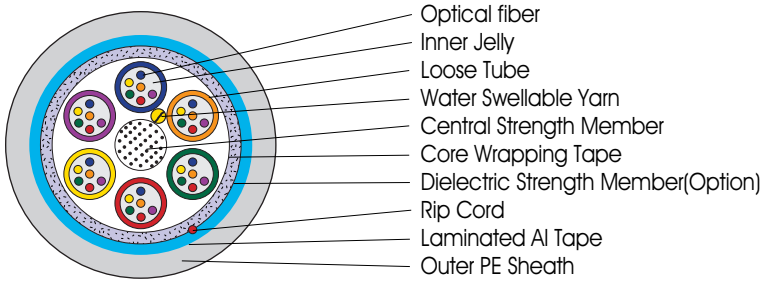
Features

Essential for Duct installation
Light weight & flexibility
Effective installation
Distinguishable by color of fiber & loose tube
Essential for Moisture Protection
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 288Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	11.5	115	230	115
38~ 72Core	1~ 6	1~12	12.0	130	240	120
74~ 96Core	7~ 8	1~12	13.5	165	270	135
98~120Core	9~10	1~12	15.0	195	300	150
122~144Core	11~12	1~12	16.5	255	330	165
146~288Core	13~24	1~12	20.0	325	400	200

Cable Performance

- Max. Tensile Load : 2700N
- Crush resistance : 200N/cm

- Temperature range
  Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
  Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
  Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Dry Core / *Steel Tape Armored, Single Jacket*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

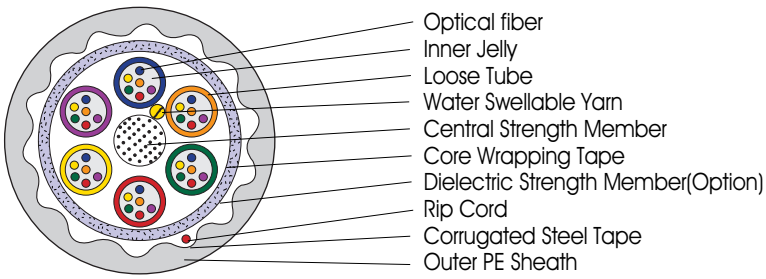
Features

Essential for Duct & Lashed aerial installation
Effective installation
Distinguishable by color of fiber & loose tube
Essential for anti-rodent
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 288Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	12.0	165	240	120
38~ 72Core	1~ 6	1~12	12.5	180	250	125
74~ 96Core	7~ 8	1~12	14.0	225	280	140
98~120Core	9~10	1~12	16.0	265	320	160
122~144Core	11~12	1~12	17.5	330	350	175
146~288Core	13~24	1~12	20.5	390	410	205

Cable Performance

- Max. Tensile Load : 2700N
- Crush resistance : 200N/cm
- Temperature range
  Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
  Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
  Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Dry Core / *Steel Tape Armored, Double Jacket*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

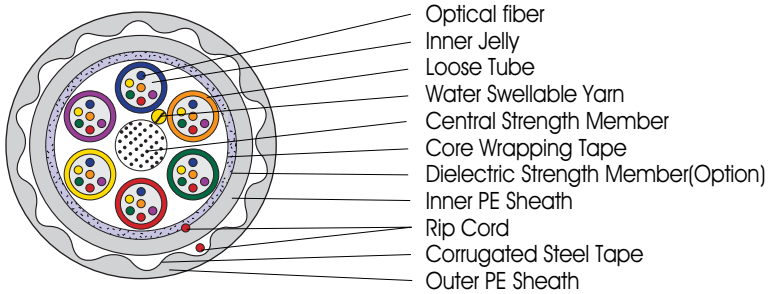
Features

Essential for Direct buried aerial installation
Essential for Lashed aerial installation
Effective installation
Distinguishable by color of fiber & loose tube
Essential for anti-rodent
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 288Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	14.0	210	280	140
38~ 72Core	1~ 6	1~12	14.5	230	290	145
74~ 96Core	7~ 8	1~12	16.0	275	320	160
98~120Core	9~10	1~12	18.0	320	360	180
122~144Core	11~12	1~12	19.0	380	380	190
146~288Core	13~24	1~12	22.5	460	450	225

Cable Performance

- Max. Tensile Load : 2700N
- Crush resistance : 200N/cm
- Temperature range
  Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
  Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
  Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Dry Core / *Non-Armored, Single Jacket, Self-Support*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

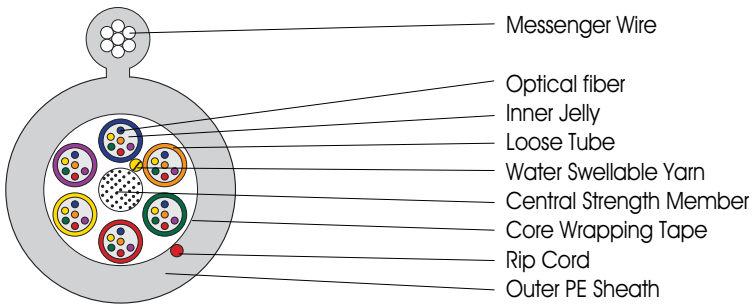
Features

Essential for Aerial installation
Non-necessary for suspension wire
Effective installation
Decrease in installation cost
Distinguishable by color of fiber & loose tube
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable Core : 2 ~ 144Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	11.0 * 23.0	320	220	110
38~ 72Core	1~ 6	1~12	11.5 * 23.5	335	230	115
74~ 96Core	7~ 8	1~12	13.0 * 25.0	375	260	130
98~120Core	9~10	1~12	14.5 * 26.5	400	290	145
122~144Core	11~12	1~12	16.0 * 28.0	460	320	160

Cable Performance

▶ Crush resistance : 200N/cm

▶ Temperature range
Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Dry Core / *Steel Tape Armored, Single Jacket, Self-Support*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

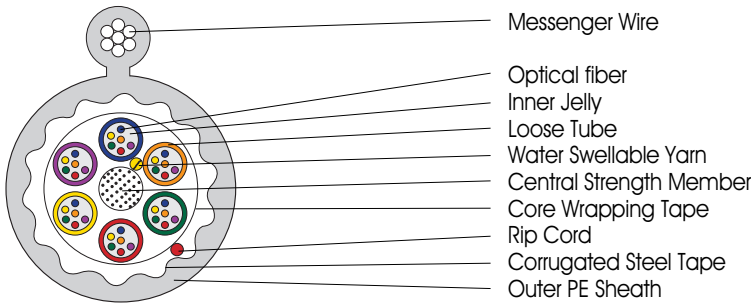
Features

Essential for Aerial installation
Non-necessary for suspension wire
Effective installation
Decrease in installation cost
Distinguishable by color of fiber & loose tube
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 2 ~ 144Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	12.0 * 24.0	375	240	120
38~ 72Core	1~ 6	1~12	12.5 * 24.5	380	250	125
74~ 96Core	7~ 8	1~12	14.0 * 26.0	430	280	140
98~120Core	9~10	1~12	16.0 * 28.0	470	320	160
122~144Core	11~12	1~12	17.5 * 29.5	535	350	175

Cable Performance

▶ Crush resistance : 200N/cm

▶ Temperature range
Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Loose Tube Dry Core / *Steel Tape Armored, Double Jacket, Self-Support*

Application

Local area network
Long haul communication system
Subscriber network system
Junction communication system

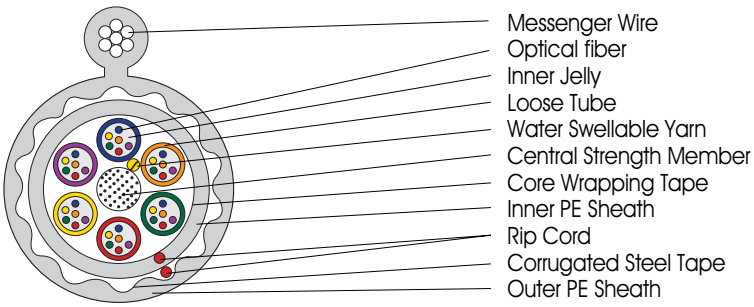
Features

Essential for Aerial installation
Non-necessary for suspension wire
Effective installation
Decrease in installation cost
Distinguishable by color of fiber & loose tube
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable Core : 2 ~ 144Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2~ 36Core	1~ 6	1~ 6	14.0 * 26.0	430	280	140
38~ 72Core	1~ 6	1~12	15.0 * 27.0	450	300	150
74~ 96Core	7~ 8	1~12	17.0 * 29.0	500	340	170
98~120Core	9~10	1~12	18.0 * 30.0	550	360	180
122~144Core	11~12	1~12	19.5 * 31.5	620	380	380

Cable Performance

▶ Crush resistance : 200N/cm

▶ Temperature range
Installation : -30℃ ~ +60℃ (-22°F ~ +140°F)
Operation : -40℃ ~ +70℃ (-40°F ~ +158°F)
Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Ribbon Tube Dry Core / *Non-Armored, Single Jacket*

Application

Local area network
Subscriber network system
Metropolitan area network

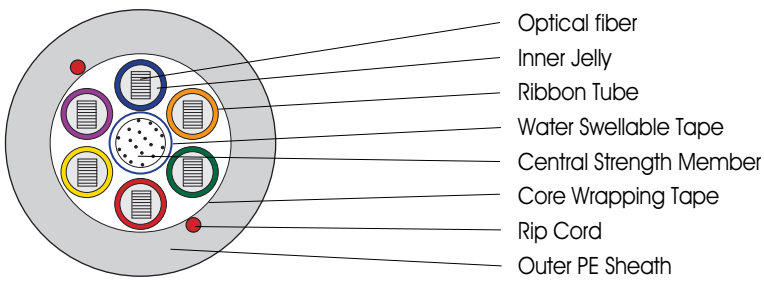
Features

Essential for Duct installation
Effective installation
Decrease in installation cost
Distinguishable by color of fiber & ribbon tube
Rip cord for easy jacket removal
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Central Strength Member : Metallic, Non-metallic
Cable core : 72～ 432Core
Sheath : PE, Flame retardant PE**
** : Al Tape may be applied over the cable core

Cable Construction



Cable Data

Items	No. of Ribbon Tube	No. of Fiber Per Ribbon Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
72～432 Core	1～ 6	72	24.0	455	480	240

Cable Performance

- Max. Tensile Load : 4500N
- Crush Resistance : 200N/cm
- Temperature range
  Installation : -30℃ ～ +60℃ (-22°F ～ +140°F)
  Operation : -40℃ ～ +70℃ (-40°F ～ +158°F)
  Storage : -40℃ ～ +70℃ (-40°F ～ +158°F)

UniTube Dry Core / *Non- Armored, Single Jacket*

Application

Local area network
Inter building & communication link

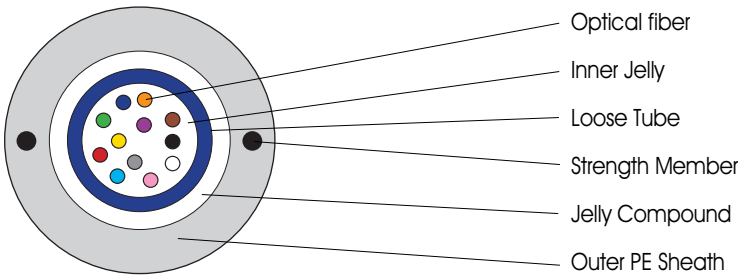
Features

Essential for Duct installation
Effective installation
Light weight & flexibility
Decrease in installation cost
Distinguishable by color of fiber
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Strength Member : Metallic
Cable core : 2～ 12Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2～12Core	1	1～12	9.0	75	180	90

Cable Performance

▶ Max. Tensile Load : 980N

▶ Temperature range
Installation : -30℃ ～ +60℃ (-22°F ～ +140°F)
Operation : -40℃ ～ +70℃ (-40°F ～ +158°F)
Storage : -40℃ ～ +70℃ (-40°F ～ +158°F)

UniTube Dry Core / *Steel Armored, Single Jacket*

Application

Local area network
Inter building & communication link

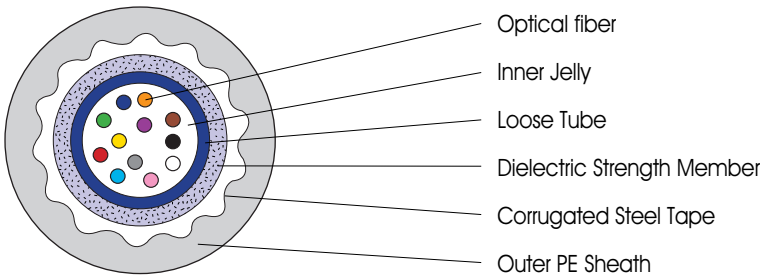
Features

Essential for Duct & Direct buried installation
Effective installation
Light weight & flexibility
Decrease in installation cost
Distinguishable by color of fiber
UV-resistant outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Strength Member : Non-Metallic
Cable core : 2～ 12Core
Sheath : PE, Flame retardant PE

Cable Construction



Cable Data

Items	No. of Loose Tube	No. of Fiber Per Loose Tube	Diameter (mm)	Weight (kg/km)	Bending Radius	
					With Load(mm)	No Load(mm)
2～12Core	1	1～12	10.0	125	200	100

Cable Performance

▶ Max. Tensile Load : 980N

▶ Temperature range
Installation : -30℃ ～ +60℃ (-22°F ～ +140°F)
Operation : -40℃ ～ +70℃ (-40°F ～ +158°F)
Storage : -40℃ ～ +70℃ (-40°F ～ +158°F)

Break Out Optical Cable

Application

Local area network
FTTH application
Inter building & communication link

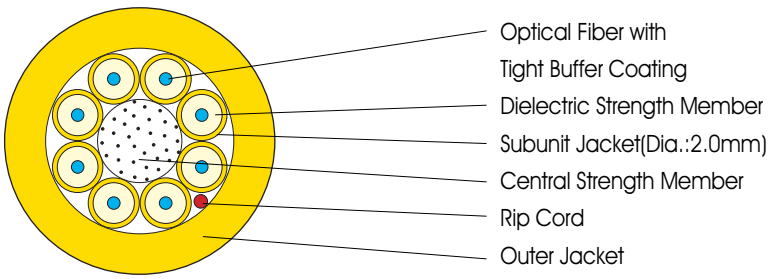
Features

Essential for indoor use
Decrease in installation cost
Aramid yarn reinforcement for fiber protection
Rip cord for easy jacket removal
Flame retardant PVC or LSZH outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Cable core : 2 ~ 8Core
Sheath : PVC, LSZH

Cable Construction



Cable Data

Items	Diameter (mm)	Weight (kg/km)	Pulling Load Max.(kg)	Bending Radius Min.(mm)
4Core	7.0	45	80	10.5
6Core	8.0	65	120	12.0
8Core	10.0	90	160	15.0

Cable Performance

▶ Temperature range

Installation : -10℃ ~ +60℃ (+14°F ~ +140°F)
Operation : -20℃ ~ +70℃ (-4°F ~ +158°F)
Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

Distribution Optical Cable

Application

Local area network
FTTH application
Inter building & communication link

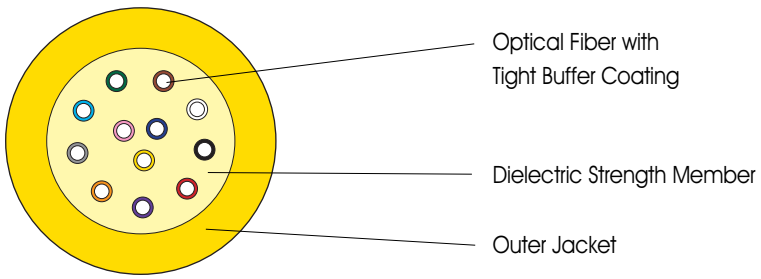
Features

Essential for indoor use
Decrease in installation cost
Aramid yarn reinforcement for fiber protection
Rip cord for easy jacket removal
Flame retardant PVC or LSZH outer jacket

Option

Fiber : Single Mode (ITU-T G.652 B, D) Multi Mode (50/125, 62.5/125)
Cable core : 2 ~ 12Core
Sheath : PVC, LSZH

Cable Construction



Cable Data

Items	Diameter (mm)	Weight (kg/km)	Pulling Load Max.(kg)	Bending Radius Min.(mm)
2Core	4.5	19	67	6.8
4Core	5.0	25	67	7.5
6Core	5.0	25	67	7.5
8Core	6.0	33	80	9.0
10Core	7.0	41	80	10.5
12Core	7.0	41	80	10.5

Cable Performance

▶ Temperature range
Installation : -10℃ ~ +60℃ (+14°F ~ +140°F)
Operation : -20℃ ~ +70℃ (-4°F ~ +158°F)
Storage : -40℃ ~ +70℃ (-40°F ~ +158°F)

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