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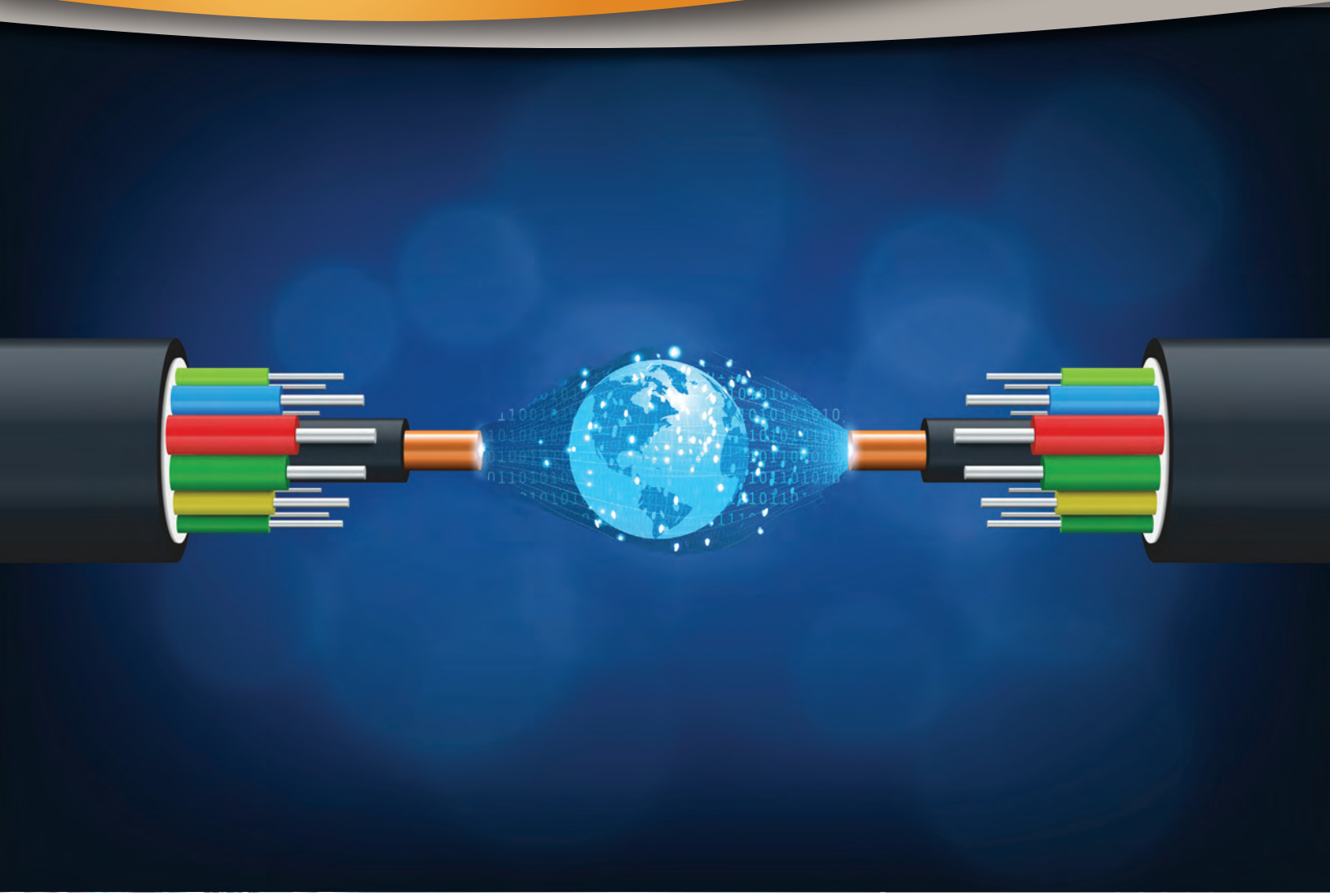


FIBER OPTIC CABLE PRODUCTS

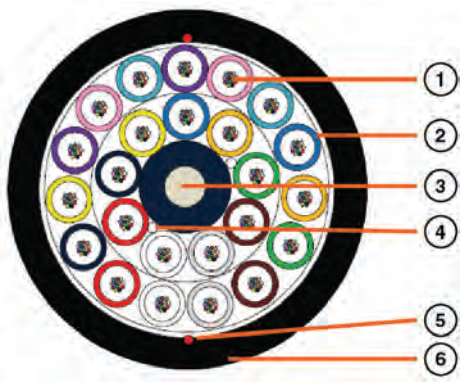
1-800-945-5542 • WWW.PRIORITYWIRE.COM

TABLE OF CONTENTS

Loose Tube, All Dry, All Dielectric, Single Jacket Non-Armored Cable

CABLE CONSTRUCTION

1. Fiber: 12 colors coding
2. Loose tube: PP with Gel-free
3. Central strength member: Dielectric strength material
4. Water blocking material : Water swellable yarn and tape
5. Stripping material: Ripcord
6. Single jacket non-armored



CABLE STANDARDS

- ITU-T G.650 / IEC 60793, 60794
- ANSI/ICEA S-87-640, Telcordia GR-20 CORE Issue 4
- RUS Bulletin 1753F-601a
- ISO 9001, 14001 / OHSAS 18001
- TIA-598-D

CABLE FEATURES & BENEFTS

- All dry (Gel-free): Easy preparation
- Color-coded fibers: Easy and quick identification
- Loose tube design: Stable performance and compatibilitywith all common fiber type
- All-dielectric construction

SPECIFICATION AND DESIGN

Item	Unit	Value				
Fiber count	/	12-72	84-96	108-144	192-216	240-288
Cable Outer Diameter	in (mm)	0.41 (10.5)	0.48(12.1)	0.61(15.4)	0.62(15.8)	0.72(18.2)
Cable Weight	lb/kft(kg/km)	52(77)	61(91)	102(152)	90(134)	123(184)
Fiber Coloring	/	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua				
Max. Fiber per Tube	/	12				
Number of Tube Position	in	6	8	12	18	24
Number of Active Tube	/	1-6	7-8	9-12	16-18	20-24
Tube Coloring	/	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua				
		Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*				
Water Blocking Material	/	Water Swellable Yarn and Tape				
Central Strength Member	/	F.R.P. (Fiber Reinforced Plastic)				
Jacket Material	/	Black color polyethylene				

: No of tube(13-24) shall be with black tracer but black tube(20) with white tracer.

HANDLING

Item		Nominal Value
Temperature	Storage	-40°F to +167°F (-40°C to +75°C)
	Installation	-22°F to +140°F (-30°C to +60°C)
	Operation	-40°F to +158°F (-40°C to +70°C)
Min. Bend Radius	With Load (Short Term)	20 X Outer Diameter of Cable
	With No Load (Long Term)	10 X Outer Diameter of Cable
Tensile Strength	Installation (Short Term)	2700N (600lbs)
	Residual (Long Term)	800N (180lbs)

1-800-945-5542
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Loose Tube, All Dry, All Dielectric, Single Jacket Non-Armored Cable

Transmission Performance (Single-Mode Fiber-ANYWAVE® B/D/REACH)

Type of Fiber	B1 (G.652.B)	D1 (G.652.D)	N1 (G.655.C)	N2 (G.655.A(L))	N3 (G.655.A(S))
Mode Filed Diameter (μm)	9.2±0.4 at 1310nm	9.2±0.4 at 1310nm	9.2±0.4 at 1550nm	9.6±0.4 at 1550nm	8.3±0.4 at 1550nm
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.35/-/0.25	0.35/0.35/0.25	-/-/0.25	-/-/0.25	-/-/0.25

Transmission Performance (Single-Mode Fiber-ANYWAVE® FLEX A1/A2/B3)

Type of Fiber	I1 (G.657.A1)	I2 (G.657.A2)	I2 (G.657.B3)
Mode Filed Diameter (μm)	8.9 ± 0.4 at 1310nm	8.6±0.4 at 1310nm	8.6±0.4 at 1310nm
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	0.35/0.35/0.25	0.35/0.35/0.25	0.35/0.35/0.25

Transmission Performance (Multi-Mode Fiber-ANYWAVE® OM1/OM2/OM3/OM4)

Type of Fiber	OM1	OM2	OM3	OM4
Core Diameter (μm)	62.5	50	50	50
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0

Cable Ordering Information

Ex:

1	-	2	-	3	-	4	-	5	-	6	-	7	-	8	-	9
F	-	12	-	LTD	-	B	-	12	-	T2	-	NASJ	-	T	-	ME
Fiber		Fiber Count		Product Family		BABA Compliance		Fiber Grouping		Fiber Type		Armor		Glass Type		Add Ons

1 - Fiber

F	:	Indicates Fiber

2 - Fiber Count

001 to 864	:	Total Fiber Count

3 - Product Family

LTD	:	Loose Tube Dry (Gel Free)
LTG	:	Loose Tube Gel Filled
RBD	:	Ribbon Dry (Gel Free)
RGB	:	Ribbon Gel Filled
DG	:	Drop Gel Filled Non Toneable
DGT	:	Drop Gel Filled Toneable

4 - BABA Compliance

B	:	BABA Compliant
	:	If no B, not Compliant

5 - Fiber Grouping

12	:	12 Tubes
24	:	24 Tubes

6 - Fiber Type

T1	:	G657A1
T2	:	G652D
T3	:	BOTH

7 - Armor

NASJ	:	Non-Armored / Single Jacket
SASJ	:	Armored / Single Jacket

8 - Glass Type

C	:	Corning
P	:	Prysmian
T	:	Taihan

9 - Add Ons

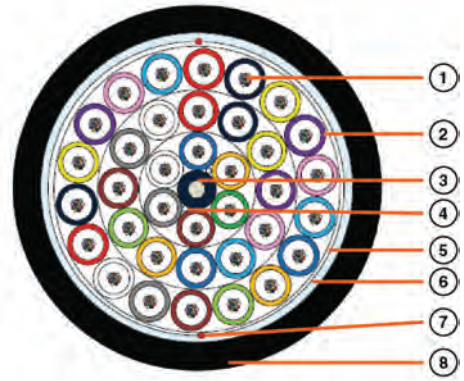
M	:	Micro
ME	:	Markings in Meters

1-800-945-5542
www.PriorityWire.com

Loose Tube, All Dry, Single Jacket Single-Armored Cable

CABLE CONSTRUCTION

1. Fiber: 12 colors coding
2. Loose tube: PP with Gel-free
3. Central strength member: Dielectric strength material
4. Water blocking material : Water swellable yarn and tape
5. Peripheral strength member : Glass yarns (If necessary)
6. Stripping material : Ripcord
7. Armoring material : Corrugated steel tape
8. Single jacket single-armored



CABLE STANDARDS

- ITU-T G.650 / IEC 60793, 60794
- ANSI/ICEA S-87-640, Telcordia GR-20 CORE Issue 4
- RUS Bulletin 1753F-601a
- ISO 9001, 14001 / OHSAS 18001
- TIA-598-D

CABLE FEATURES & BENEFTS

- All dry (Gel-free): Easy preparation
- Color-coded fibers: Easy and quick identification
- Loose tube design: Stable performance and compatibility with all common fiber type
- Armored Cable

SPECIFICATION AND DESIGN

Item	Unit	Value					
Fiber count	/	12-72	84-96	108-144	192-216	240-288	432
Cable Outer Diameter	in (mm)	0.46(11.7)	0.52(13.3)	0.65(16.6)	0.67(17.0)	0.76(19.4)	0.89(22.7)
Cable Weight	lb/kft(kg/km)	89(132)	103(154)	156(232)	145(215)	186(277)	225(335)
Fiber Coloring	/	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua					
Max. Fiber per Tube	/	12					
Number of Tube Position	in	6	8	12	18	24	36
Number of Active Tube	/	1-6	7-8	9-12	16-18	20-24	36
Tube Coloring	/	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua					
		Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*					
		Blue**, Orange**, Green**, Brown**, Slate**, White**, Red**, Black**, Yellow**, Violet**, Rose**, Aqua**					
Water Blocking Material	/	Water Swellable Yarn and Tape					
Armoring Material	/	Corrugated Steel Tape					
Central Strength Member	/	F.R.P. (Fiber Reinforced Plastic)					
Jacket Material	/	Black color polyethylene					

*: Tube identification with one black stripe. In case of Black tube with white marking.
**: Tube identification with two black stripe. In case of Black tube with white marking. The stripe consists of one stripe each on the top and bottom of the tube.

Loose Tube, All Dry, Single Jacket Single-Armored Cable

HANDLING

Item		Nominal Value
Temperature	Storage	-40°F to +167°F (-40°C to +75°C)
	Installation	-22°F to +140°F (-30°C to +60°C)
	Operation	-40°F to +158°F (-40°C to +70°C)
Min. Bend Radius	With Load (Short Term)	20 X Outer Diameter of Cable
	With No Load (Long Term)	10 X Outer Diameter of Cable
Tensile Strength	Installation (Short Term)	2700N (600lbs)
	Residual (Long Term)	800N (180lbs)

Transmission Performance (Single-Mode Fiber-ANYWAVE® B/D/REACH)

Type of Fiber	B1 (G.652.B)	D1 (G.652.D)	N1 (G.655.C)	N2 (G.655.A(L))	N3 (G.655.A(S))
Mode Filed Diameter (μm)	9.2±0.4 at 1310nm	9.2±0.4 at 1310nm	9.2±0.4 at 1550nm	9.6±0.4 at 1550nm	8.3±0.4 at 1550nm

Transmission Performance (Single-Mode Fiber-ANYWAVE® FLEX A1/A2/B3)

Type of Fiber	I1 (G.657.A1)	I2 (G.657.A2)	I2 (G.657.B3)
Mode Filed Diameter (μm)	8.9 ± 0.4 at 1310nm	8.6±0.4 at 1310nm	8.6±0.4 at 1310nm

Transmission Performance (Multi-Mode Fiber-ANYWAVE® OM1/OM2/OM3/OM4)

Type of Fiber	OM1	OM2	OM3	OM4
Core Diameter (μm)	62.5	50	50	50

Cable Ordering Information

Ex:

1		2		3		4		5		6		7		8		9
F	-	12	-	LTD	-	B	-	12	-	T2	-	NASJ	-	T	-	ME
Fiber		Fiber Count		Product Family		BABA Compliance		Fiber Grouping		Fiber Type		Armor		Glass Type		Add Ons

1 - Fiber

F	:	Indicates Fiber

2 - Fiber Count

001 to 864	:	Total Fiber Count

3 - Product Family

LTD	:	Loose Tube Dry (Gel Free)
LTG	:	Loose Tube Gel Filled
RBD	:	Ribbon Dry (Gel Free)
RGB	:	Ribbon Gel Filled
DG	:	Drop Gel Filled Non Toneable
DGT	:	Drop Gel Filled Toneable

4 - BABA Compliance

B	:	BABA Compliant
	:	If no B, not Compliant

5 - Fiber Grouping

12	:	12 Tubes
24	:	24 Tubes

6 - Fiber Type

T1	:	G657A1
T2	:	G652D
T3	:	BOTH

7 - Armor

NASJ	:	Non-Armored / Single Jacket
SASJ	:	Armored / Single Jacket

8 - Glass Type

C	:	Corning
P	:	Prysmian
T	:	Taihan

9 - Add Ons

M	:	Micro
ME	:	Markings in Meters

1-800-945-5542
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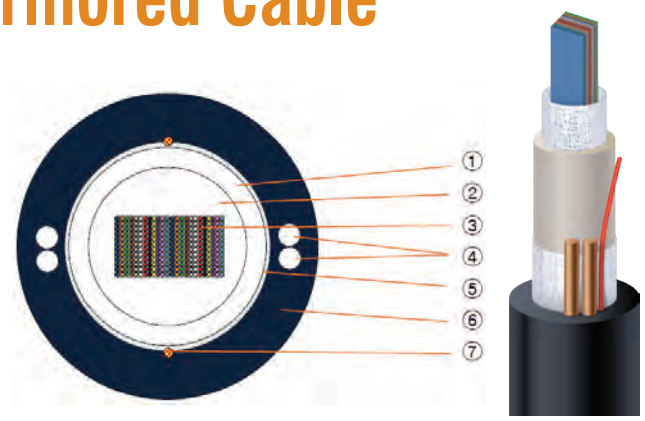
Optical Fiber, Gel-Free, Ribbon in Central Tube and Single Jacket Non-Armored Cable

CABLE CONSTRUCTION

1. Central Buffer Tube : Flexible Tube
2. 1'st W/B Layer : Water Swellable metarial
3. Ribbon matrix : 12F or 24F Ribbon
4. Outer Strength Member : GFRP Rod
5. 2'nd W/B Layer : Water Swellable Tape
6. Outer Jacket : Black color PE with U.V. Resistance
7. Ripcord



CABLE STANDARDS

- ITU-T G.650, 652.D, 657.A1 / IEC 60793, 60794
- Telcodia GR-20, ANSI S-87-640
- ISO 9001, 14001 / OHSAS 18001
- TIA-598-D

CABLE FEATURES & BENEFTS

- All-Dry Block: Easy Preparation
- Color-Coded Fibers: Easy and Quick Identification
- Ribbon: Easy Splicing and Marking on Ribbon for Identification
- Flexible Tube Design: Stable Performance and Easy Handling

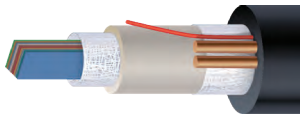
SPECIFICATION AND DESIGN (12F Ribbon for 144F, 24F Ribbon for 288F)

Item	Unit	Value	
Fiber Count	/	144	288
Number of Fibers per Ribbon	/	12	24
Number of Ribbon per Tube	/	12	12
Cable Outer Diameter	in (mm)	0.559 (14.2)	0.780 (19.8)
Cable Weight	lb/kft(kg/km)	93 (138)	155 (230)
Fiber Coloring	/	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua	
Ribbon Identification	/	Marking on Each Ribbon	
Cable Marking	/	Indent Type with White Color, 2ft Interval	

HANDLING

Item		Nominal Value
Temperature	Storage	-40°F to +158°F (-40°C to +70°C)
	Installation	-22°F to +158°F (-30°C to +70°C)
	Operation	-40°F to +158°F (-40°C to +70°C)
Min. Bend Radius	With Load	20 X Outer Diameter of Cable
	With No Load	10 X Outer Diameter of Cable
Tensile Strength	Short Term	600lbs (2700N)
	Long Term	200lbs (890N)
Crush Resistance		125lb/in

Optical Fiber, Gel-Free, Ribbon in Central Tube and Single Jacket Non-Armored Cable



Transmission Performance

Fiber Type	G.652D	G.657A1
Mode Filed Diameter (μm)	9.2±0.4 at 1310nm / 10.4±0.5 at 1550nm	8.9±0.5 at 1310nm
Mode Field Concentricity Error (μm)	≤ 0.5	≤ 0.5
Cladding Diameter (μm)	125±0.7	125±0.7
Cladding Non Circularity (%)	≤ 0.8	≤ 0.8
Coating Diameter (μm)	250±10	250±10
Wavelengths for Attenuation (nm)	1310/1383/1550	1310/1383/1550
Max. Attenuation (dB/km)	≤ 0.35/0.35/0.25	≤ 0.35/0.35/0.25
Wavelengths for Dispersion (nm)	1285~1330/1550	1285~1330/1550
Dispersion (ps/(nm.km))	≤ 3.5/18.0	≤ 3.5/18.0
Zero Dispersion Wavelength (nm)	1300-1324	1300-1324
Cable Cut Off Wavelength (nm)	≤ 1260	≤ 1260
Zero Dispersion Slope (ps/(nm^2.km))	≤ 0.092	≤ 0.092
Fiber Proof Test Level (kpsi)	100 (0.69Gpa)	100 (0.69Gpa)

Cable Ordering Information

Ex:

1	-	2	-	3	-	4	-	5	-	6	-	7	-	8	-	9
F	-	12	-	LTD	-	B	-	12	-	T2	-	NASJ	-	T	-	ME
Fiber		Fiber Count		Product Family		BABA Compliance		Fiber Grouping		Fiber Type		Armor		Glass Type		Add Ons

1 - Fiber

F	:	Indicates Fiber

2 - Fiber Count

001 to 864	:	Total Fiber Count

3 - Product Family

LTD	:	Loose Tube Dry (Gel Free)
LTG	:	Loose Tube Gel Filled
RBD	:	Ribbon Dry (Gel Free)
RGB	:	Ribbon Gel Filled
DG	:	Drop Gel Filled Non Toneable
DGT	:	Drop Gel Filled Toneable

4 - BABA Compliance

B	:	BABA Compliant
	:	If no B, not Compliant

5 - Fiber Grouping

12	:	12 Tubes
24	:	24 Tubes

6 - Fiber Type

T1	:	G657A1
T2	:	G652D
T3	:	BOTH

7 - Armor

NASJ	:	Non-Armored / Single Jacket
SASJ	:	Armored / Single Jacket

8 - Glass Type

C	:	Corning
P	:	Prysmian
T	:	Taihan

9 - Add Ons

M	:	Micro
ME	:	Markings in Meters

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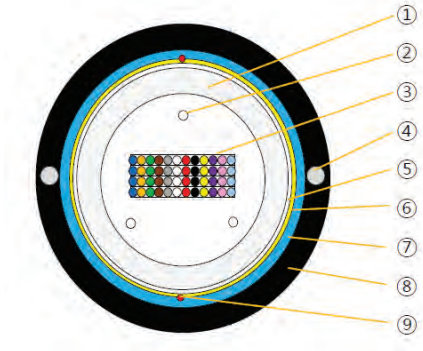
PRIORITY WIRE & CABLE, INC.

02-2025

Optical Fiber, Gel-Free, Ribbon in Central Tube and Single Jacket Armored Cable 12F

CABLE CONSTRUCTION

1. Central Buffer Tube : Flexible Tube
2. 1'st W/B Layer : Water Swellable metarial
3. Ribbon matrix : 12F Ribbon
4. Outer Strength Member : Galvanized Steel Wire
5. 2'nd W/B Layer : Water Swellable Tape
6. Peripheral Strength Member : Aramid yarn
7. Armoring : Corrugated Steel Tape with Co-Polymer Coating
8. Outer Jacket : Black color PE with U.V. Resistance
9. Ripcord



CABLE STANDARDS

- ITU-T G.650, 652.D, 657.A1 / IEC 60793, 60794
- Telcodia GR-20, ANSI S-87-640
- ISO 9001, 14001 / OHSAS 18001
- TIA-598-D

CABLE FEATURES & BENEFTS

- All-Dry Block: Easy Preparation
- Color-Coded Fibers: Easy and Quick Identification
- Ribbon: Easy Splicing and Marking on Ribbon for Identification
- Flexible Tube Design: Stable Performance and Easy Handling

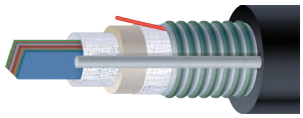
SPECIFICATION AND DESIGN

Item	Unit	Value	
Fiber Count	/	24	48
Number of Fibers per Ribbon	/	12	
Number of Ribbon per Tube	/	2	4
Cable Outer Diameter	in (mm)	0.524 (13.3)	0.531 (13.5)
Cable Weight	lb/kft(kg/km)	114 (170)	117 (174)
Fiber Coloring	/	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua	
Ribbon Identification	/	Marking on Each Ribbon	
Cable Marking	/	Indent Type with White Color, 2ft Interval	

HANDLING

Item		Nominal Value
Temperature	Storage	-40°F to +158°F (-40°C to +70°C)
	Installation	-22°F to +158°F (-30°C to +70°C)
	Operation	-40°F to +158°F (-40°C to +70°C)
Min. Bend Radius	With Load	20 X Outer Diameter of Cable
	With No Load	10 X Outer Diameter of Cable
Tensile Strength	Short Term	600lbs (2700N)
	Long Term	200lbs (890N)
Crush Resistance		125lb/in

Optical Fiber, Gel-Free, Ribbon in Central Tube and Single Jacket Armored Cable



Transmission Performance

Fiber Type	G.652D	G.657A1
Mode Filed Diameter (μm)	9.2±0.4 at 1310nm / 10.4±0.5 at 1550nm	8.9±0.5 at 1310nm
Mode Field Concentricity Error (μm)	≤ 0.5	≤ 0.5
Cladding Diameter (μm)	125±0.7	125±0.7
Cladding Non Circularity (%)	≤ 0.8	≤ 0.8
Coating Diameter (μm)	250±10	250±10
Wavelengths for Attenuation (nm)	1310/1383/1550	1310/1383/1550
Max. Attenuation (dB/km)	≤ 0.35/0.35/0.25	≤ 0.35/0.35/0.25
Wavelengths for Dispersion (nm)	1285~1330/1550	1285~1330/1550
Dispersion (ps/(nm.km))	≤ 3.5/18.0	≤ 3.5/18.0
Zero Dispersion Wavelength (nm)	1300-1324	1300-1324
Cable Cut Off Wavelength (nm)	≤ 1260	≤ 1260
Zero Dispersion Slope (ps/(nm^2.km))	≤ 0.092	≤ 0.092
Fiber Proof Test Level (kpsi)	100 (0.69Gpa)	100 (0.69Gpa)

Cable Ordering Information

Ex:

1	-	2	-	3	-	4	-	5	-	6	-	7	-	8	-	9
F	-	12	-	LTD	-	B	-	12	-	T2	-	NASJ	-	T	-	ME
Fiber		Fiber Count		Product Family		BABA Compliance		Fiber Grouping		Fiber Type		Armor		Glass Type		Add Ons

1 - Fiber

F	:	Indicates Fiber

2 - Fiber Count

001 to 864	:	Total Fiber Count

3 - Product Family

LTD	:	Loose Tube Dry (Gel Free)
LTG	:	Loose Tube Gel Filled
RBD	:	Ribbon Dry (Gel Free)
RGB	:	Ribbon Gel Filled
DG	:	Drop Gel Filled Non Toneable
DGT	:	Drop Gel Filled Toneable

4 - BABA Compliance

B	:	BABA Compliant
	:	If no B, not Compliant

5 - Fiber Grouping

12	:	12 Tubes
24	:	24 Tubes

6 - Fiber Type

T1	:	G657A1
T2	:	G652D
T3	:	BOTH

7 - Armor

NASJ	:	Non-Armored / Single Jacket
SASJ	:	Armored / Single Jacket

8 - Glass Type

C	:	Corning
P	:	Prysmian
T	:	Taihan

9 - Add Ons

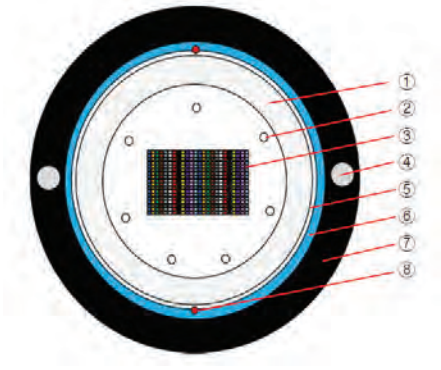
M	:	Micro
ME	:	Markings in Meters

1-800-945-5542
www.PriorityWire.com

Optical Fiber, Gel-Free, Ribbon in Central Tube and Single Jacket Armored Cable 24F

CABLE CONSTRUCTION

1. Central Buffer Tube : Flexible Tube
2. 1'st W/B Layer : Water Swellable metarial
3. Ribbon matrix : 24F Ribbon
4. Outer Strength Member : Galvanized Steel Wire
5. 2'nd W/B Layer : Water Swellable Tape
6. Armoring : Corrugated Steel Tape with Co-Polymer Coating
7. Outer Jacket : Black color PE with U.V. Resistance
8. Ripcord



CABLE STANDARDS

- ITU-T G.650, 652.D, 657.A1 / IEC 60793, 60794
- Telcodia GR-20, ANSI S-87-640
- ISO 9001, 14001 / OHSAS 18001
- TIA-598-D

CABLE FEATURES & BENEFTS

- All-Dry Block: Easy Preparation
- Color-Coded Fibers: Easy and Quick Identification
- Ribbon: Easy Splicing and Marking on Ribbon for Identification
- Flexible Tube Design: Stable Performance and Easy Handling

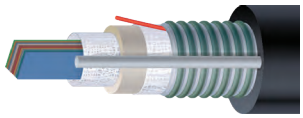
SPECIFICATION AND DESIGN

Item	Unit	Value
Fiber Count	/	432
Number of Fibers per Ribbon	/	24
Number of Ribbon per Tube	/	18
Cable Outer Diameter	in (mm)	0.835 (21.2)
Cable Weight	lb/kft(kg/km)	239 (356)
Fiber Coloring	(01-12)	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua
	(13-24)	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua
Ribbon Identification	/	Marking on Each Ribbon
Cable Marking	/	Indent Type with White Color, 2ft Interval

HANDLING

Item		Nominal Value
Temperature	Storage	-40°F to +158°F (-40°C to +70°C)
	Installation	-22°F to +158°F (-30°C to +70°C)
	Operation	-40°F to +158°F (-40°C to +70°C)
Min. Bend Radius	With Load	20 X Outer Diameter of Cable
	With No Load	10 X Outer Diameter of Cable
Tensile Strength	Short Term	600lbs (2700N)
	Long Term	200lbs (890N)
Crush Resistance		125lb/in

Optical Fiber, Gel-Free, Ribbon in Central Tube and Single Jacket Armored Cable



Transmission Performance

Fiber Type	G.652D	G.657A1
Mode Filed Diameter (μm)	9.2±0.4 at 1310nm / 10.4±0.5 at 1550nm	8.9±0.5 at 1310nm
Mode Field Concentricity Error (μm)	≤ 0.5	≤ 0.5
Cladding Diameter (μm)	125±0.7	125±0.7
Cladding Non Circularity (%)	≤ 0.8	≤ 0.8
Coating Diameter (μm)	250±10	250±10
Wavelengths for Attenuation (nm)	1310/1383/1550	1310/1383/1550
Max. Attenuation (dB/km)	≤ 0.35/0.35/0.25	≤ 0.35/0.35/0.25
Wavelengths for Dispersion (nm)	1285~1330/1550	1285~1330/1550
Dispersion (ps/(nm.km))	≤ 3.5/18.0	≤ 3.5/18.0
Zero Dispersion Wavelength (nm)	1300-1324	1300-1324
Cable Cut Off Wavelength (nm)	≤ 1260	≤ 1260
Zero Dispersion Slope (ps/(nm^2.km))	≤ 0.092	≤ 0.092
Fiber Proof Test Level (kpsi)	100 (0.69Gpa)	100 (0.69Gpa)

Cable Ordering Information

Ex:

1		2		3		4		5		6		7		8		9
F	-	12	-	LTD	-	B	-	12	-	T2	-	NASJ	-	T	-	ME
Fiber		Fiber Count		Product Family		BABA Compliance		Fiber Grouping		Fiber Type		Armor		Glass Type		Add Ons

1 - Fiber

F	:	Indicates Fiber

2 - Fiber Count

001 to 864	:	Total Fiber Count

3 - Product Family

LTD	:	Loose Tube Dry (Gel Free)
LTG	:	Loose Tube Gel Filled
RBD	:	Ribbon Dry (Gel Free)
RGB	:	Ribbon Gel Filled
DG	:	Drop Gel Filled Non Toneable
DGT	:	Drop Gel Filled Toneable

4 - BABA Compliance

B	:	BABA Compliant
	:	If no B, not Compliant

5 - Fiber Grouping

12	:	12 Tubes
24	:	24 Tubes

6 - Fiber Type

T1	:	G657A1
T2	:	G652D
T3	:	BOTH

7 - Armor

NASJ	:	Non-Armored / Single Jacket
SASJ	:	Armored / Single Jacket

8 - Glass Type

C	:	Corning
P	:	Prysmian
T	:	Taihan

9 - Add Ons

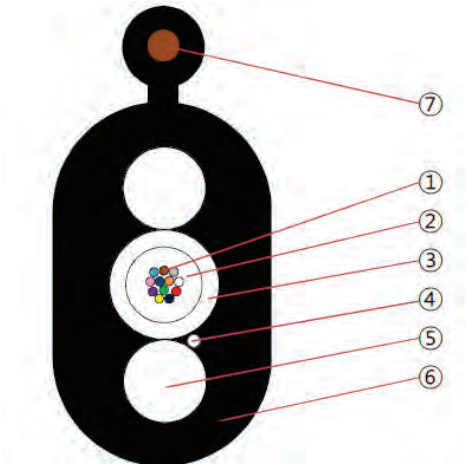
M	:	Micro
ME	:	Markings in Meters

1-800-945-5542
www.PriorityWire.com

Toneable Flat Drop Cable Loose Tube Type

CABLE CONSTRUCTION

1. Fiber: 12 colors coding
2. Filling compound: Water blocking gel
3. Loose tube: Jelly filled Natural(Milky) color PP or PBT
4. Water blocking yarn
5. Strength member: EAA coated FRP
6. Outer Jacket: Black color HDPE
7. Conductor (24AWG Annealed copper)



CABLE STANDARDS

- ITU-T G.652.D, G.657.A1
- IEC 60793, 60794, 60811-1-1 / UL 1651
- ISO 9001, 14001 / OHSAS 18001
- TIA-598-D

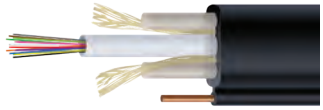
SPECIFICATION AND DESIGN

Item	Unit	Value
Fiber Count	/	2 ~ 12
Loose Tube Diameter	in (mm)	0.114 ± 0.004 (2.9 ± 0.1)
Loose Tube Type/Color	/	PP or PBT / Natural (Milky)
Strength Member	/	EAA coated FRP (Nom. 0.063 in / 1.6 mm)
Cable Diameter	in (mm)	0.177 x 0.398 ± 0.012 (4.5 x 10.1 ± 0.3)
Jacket Type/Color	/	HDPE / Black
Conductor	/	24AWG Annealed copper
Weight	lb/kft(kg/km)	0.030 (45)
Min. Bending Radius	in (mm)	3.15 (80)
Temperature	Installation	-22°F to +158°F (-30°C to +70°C)
	Operation	-40°F to +158°F (-40°C to +70°C)
Max. Tensile Load	Installation	303 lbs (1350 N)
	Operation	90 lbs (400 N)
Marking on Jacket	/	White Color and Indent or Inkjet Type (1 m or 2 feet Interval)

Transmission Performance

Fiber Type		G.652.D	G.657.A1
Mode flied diameter (μm)		8.6 ~ 9.2 ± 0.4 at 1310nm	9.2 ± 0.4 at 1310nm
Cladding diameter (μm)		125 ± 0.7	
Coating diameter (μm)		245 ± 15 (Uncolored) / 250 ± 15 (Colored)	
Wavelengths for attenuation (nm)		1310 / 1550	
Attenuation (dB/km)		≤ 0.40 / 0.30	
Wavelengths for dispersion (nm)		1285~1310 / 1550 / 1625	
Dispersion (ps/(nm.km))		≤ 3.5 / 18.0 / 22.0	
Zero dispersion wavelength (nm)		1300 ~ 1324	
Zero dispersion slope (ps/(nm^2.km))		≤ 0.092	
Cable cut off wavelength (nm)		≤ 1260	
Fiber proof test level (kpsi)		100 (0.69Gpa)	
PMD(ps/√km)		≤ 0.2	
Macrobending Loss (un-cabled fiber)	R=30mm, 100turn	≤ 0.1dB at 1625nm	
	R=15mm, 10turn		≤ 0.1dB at 1625nm

Toneable Flat Drop Cable Loose Tube Type



ROUTINE TEST

- Measurement of outer diameter of outer jacket test per IEC60811-1-1
- Measurement of attenuation of optical cable per method C of IEC 60793-1-40

Properties	MODE	Wavelength	Value
Attenuation	SM	1310 nm	≤0.4 dB/km
		1550 nm	≤0.3 dB/km

Test List	Test Method	Test Value	Acceptance Criteria
Tensile load	IEC-60794-1-21-E1	303 lbs , 3,937 in (1350 N, 100m)	Δα≤0.2dB
Crush	IEC 60794-1-21-E3	56.9 lbs/in, 5min (500N/5cm, 5 min)	Δα≤0.2dB
Impact	IEC 60794-1-21-E4	5J, 1 Impacts, 3point	Δα≤0.2dB
Repeated Bending	IEC 60794-1-21-E6	Mandrel Diameter = 20 x D, ±90°, 25cycles	Δα≤0.2dB
Torsion	IEC 60794-1-21-E7	50 N, 78.8 in(2m), ±180°, 10cycles	Δα≤0.2dB
Bend	IEC 60794-1-21-E11	Mandrel Diameter = 20 x D, 5 turns	Δα≤0.2dB
Temperature Cycling 2cycle, 12hr	IEC 60794-1-22-F1	+68°F → -40°F → +158°F → +68°F (+20°C → -40°C → +70°C → +20°C)	Δα≤0.4dB/km
Water Penetration	IEC 60794-1-22-F5B	sample = 118 in(3m), water column = 39.4 in(1m), 24 hours	No water leakage

* Measurement error cover ± 0.02 dB / * Measurement wavelength at 1550 nm

Cable Ordering Information

Ex:

1	-	2	-	3	-	4	-	5	-	6	-	7	-	8	-	9
F		12		LTD		B		12		T2		NASJ		T		ME
Fiber		Fiber Count		Product Family		BABA Compliance		Fiber Grouping		Fiber Type		Armor		Glass Type		Add Ons

1 - Fiber

F	:	Indicates Fiber

2 - Fiber Count

001 to 864	:	Total Fiber Count

3 - Product Family

LTD	:	Loose Tube Dry (Gel Free)
LTG	:	Loose Tube Gel Filled
RBD	:	Ribbon Dry (Gel Free)
RGB	:	Ribbon Gel Filled
DG	:	Drop Gel Filled Non Toneable
DGT	:	Drop Gel Filled Toneable

4 - BABA Compliance

B	:	BABA Compliant
	:	If no B, not Compliant

5 - Fiber Grouping

12	:	12 Tubes
24	:	24 Tubes

6 - Fiber Type

T1	:	G657A1
T2	:	G652D
T3	:	BOTH

7 - Armor

NASJ	:	Non-Armored / Single Jacket
SASJ	:	Armored / Single Jacket

8 - Glass Type

C	:	Corning
P	:	Prysmian
T	:	Taihan

9 - Add Ons

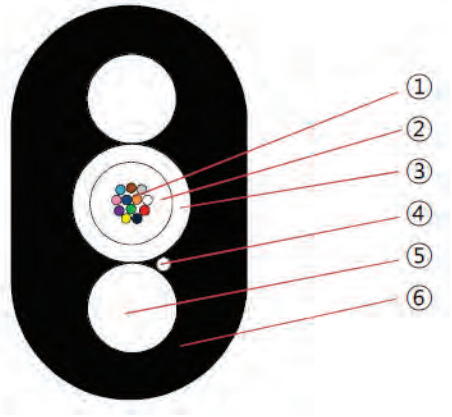
M	:	Micro
ME	:	Markings in Meters

1-800-945-5542
www.PriorityWire.com

Non-Toneable Flat Drop Cable Loose Tube Type

CABLE CONSTRUCTION

1. Fiber: 12 colors coding
2. Filling compound: Water blocking gel
3. Loose tube: Jelly filled Natural(Milky) color PP or PBT
4. Water blocking yarn
5. Strength member: EAA coated FRP
6. Outer Jacket: Black color HDPE



CABLE STANDARDS

- ITU-T G.652.D, G.657.A1
- IEC 60793, 60794, 60811-1-1 / UL 1651
- ISO 9001, 14001 / OHSAS 18001
- TIA-598-D

SPECIFICATION AND DESIGN

Item	Unit	Value
Fiber Count	/	2 ~ 12
Loose Tube Diameter	in (mm)	0.114 ± 0.004 (2.9 ± 0.1)
Loose Tube Type/Color	/	PP or PBT / Natural (Milky)
Strength Member	/	EAA coated FRP (Nom. 0.063 in / 1.6 mm)
Cable Diameter	in (mm)	0.177 x 0.319 ± 0.008 (4.5 x 8.1 ± 0.2)
Jacket Type/Color	/	HDPE / Black
Conductor	/	24AWG Annealed copper
Weight	lb/kft(kg/km)	0.024 (35)
Min. Bending Radius	in (mm)	3.15 (80)
Temperature	Installation	-22°F to +158°F (-30°C to +70°C)
	Operation	-40°F to +158°F (-40°C to +70°C)
Max. Tensile Load	Installation	303 lbs (1350 N)
	Operation	90 lbs (400 N)
Marking on Jacket	/	White Color and Indent or Inkjet Type (1 m or 2 feet Interval)

Transmission Performance

Fiber Type		G.652.D	G.657.A1
Mode flied diameter (μm)		8.6 ~ 9.2 ± 0.4 at 1310nm	9.2 ± 0.4 at 1310nm
Cladding diameter (μm)		125 ± 0.7	
Coating diameter (μm)		245 ± 15 (Uncolored) / 250 ± 15 (Colored)	
Wavelengths for attenuation (nm)		1310 / 1550	
Attenuation (dB/km)		≤ 0.40 / 0.30	
Wavelengths for dispersion (nm)		1285~1310 / 1550 / 1625	
Dispersion (ps/(nm.km))		≤ 3.5 / 18.0 / 22.0	
Zero dispersion wavelength (nm)		1300 ~ 1324	
Zero dispersion slope (ps/(nm^2.km))		≤ 0.092	
Cable cut off wavelength (nm)		≤ 1260	
Fiber proof test level (kpsi)		100 (0.69Gpa)	
PMD(ps/√km)		≤ 0.2	
Macrobending Loss (un-cabled fiber)	R=30mm, 100turn	≤ 0.1dB at 1625nm	
	R=15mm, 10turn		≤ 0.1dB at 1625nm

Non-Toneable Flat Drop Cable Loose Tube Type

ROUTINE TEST

- Measurement of outer diameter of outer jacket test per IEC60811-1-1
- Measurement of attenuation of optical cable per method C of IEC 60793-1-40

Properties	MODE	Wavelength	Value
Attenuation	SM	1310 nm	≤0.4 dB/km
		1550 nm	≤0.3 dB/km

Test List	Test Method	Test Value	Acceptance Criteria
Tensile load	IEC-60794-1-21-E1	303 lbs , 3,937 in (1350 N, 100m)	Δα≤0.2dB
Crush	IEC 60794-1-21-E3	56.9 lbs/in, 5min (500N/5cm, 5 min)	Δα≤0.2dB
Impact	IEC 60794-1-21-E4	5J, 1 Impacts, 3point	Δα≤0.2dB
Repeated Bending	IEC 60794-1-21-E6	Mandrel Diameter = 20 x D, ±90°, 25cycles	Δα≤0.2dB
Torsion	IEC 60794-1-21-E7	50 N, 78.8 in(2m), ±180°, 10cycles	Δα≤0.2dB
Bend	IEC 60794-1-21-E11	Mandrel Diameter = 20 x D, 5 turns	Δα≤0.2dB
Temperature Cycling 2cycle, 12hr	IEC 60794-1-22-F1	+68°F → -40°F → +158°F → +68°F (+20°C → -40°C → +70°C → +20°C)	Δα≤0.4dB/km
Water Penetration	IEC 60794-1-22-F5B	sample = 118 in(3m), water column = 39.4 in(1m), 24 hours	No water leakage

* Measurement error cover ± 0.02 dB / * Measurement wavelength at 1550 nm

Cable Ordering Information

Ex:

1	-	2	-	3	-	4	-	5	-	6	-	7	-	8	-	9
F	-	12	-	LTD	-	B	-	12	-	T2	-	NASJ	-	T	-	ME
Fiber		Fiber Count		Product Family		BABA Compliance		Fiber Grouping		Fiber Type		Armor		Glass Type		Add Ons

1 - Fiber

F	:	Indicates Fiber

2 - Fiber Count

001 to 864	:	Total Fiber Count

3 - Product Family

LTD	:	Loose Tube Dry (Gel Free)
LTG	:	Loose Tube Gel Filled
RBD	:	Ribbon Dry (Gel Free)
RGB	:	Ribbon Gel Filled
DG	:	Drop Gel Filled Non Toneable
DGT	:	Drop Gel Filled Toneable

4 - BABA Compliance

B	:	BABA Compliant
	:	If no B, not Compliant

5 - Fiber Grouping

12	:	12 Tubes
24	:	24 Tubes

6 - Fiber Type

T1	:	G657A1
T2	:	G652D
T3	:	BOTH

7 - Armor

NASJ	:	Non-Armored / Single Jacket
SASJ	:	Armored / Single Jacket

8 - Glass Type

C	:	Corning
P	:	Prysmian
T	:	Taihan

9 - Add Ons

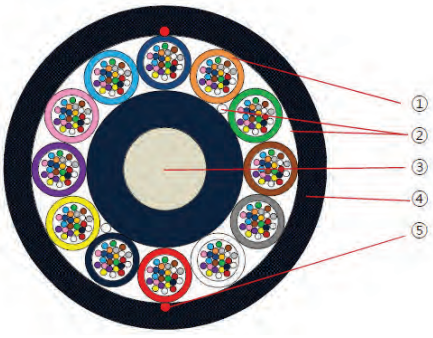
M	:	Micro
ME	:	Markings in Meters

1-800-945-5542
www.PriorityWire.com

250μm Optical Fiber, Multi-Tubes, Thermoplastic Jacket Air Blown Cable

CABLE CONSTRUCTION

1. Buffer Tube: PBT with Gel-filled
2. Dry Block: Water Swellable Yarns
3. Central Strength Member: GFRP with coating (If necessary)
4. Outer jacket: Black Color HDPE with U.V. Resistance
5. Pet yarn : Ripcord



CABLE STANDARDS

- ITU-T G.650, 652.D, 657.A1 / IEC 60793, 60794
- Telcodia GR-20, ANSI S-87-640
- ISO 9001, 14001 / OHSAS 18001
- TIA-598-D

SPECIFICATION AND DESIGN

Item	Unit	Value								
Total Fiber Count	/	12~72	96	144	288	144	192	288	432	576
Cable Outer Diameter	in (mm)	0.201 (5.1)	0.232 (5.9)	0.307 (7.8)	0.362 (9.2)	0.264 (6.7)	0.311 (7.9)	0.413 (10.5)	0.417 (10.6)	0.535 (13.6)
No. of Fibers per Tube	/	12	12	12	12	24	24	24	24	24
No. of Tubes	ea	1~6	8	12	1st:9 2nd:15	6	8	12	1st:6 2nd:12	1st:9 2nd:15
Cable Weight	lb/kft (kg/km)	0.015 (22)	0.022 (32)	0.038 (57)	0.049 (73)	0.025 (38)	0.035 (52)	0.063 (94)	0.060 (89)	0.099 (147)
Tensile Strength During Installation	lbs	≤ 67 (300N)	≤157 (700N)	≤337 (1500N)	≤224 (1000N)	≤112 (500N)	≤157 (700N)	≤337 (1500N)	≤112 (500N)	≤271 (1200N)
Tensile Strength During Operation	lbs	≤33 (150N)	≤78 (350N)	≤168 (750N)	≤112 (500N)	≤56 (250N)	≤78 (350N)	≤168 (750N)	≤56 (250N)	≤135 (600N)
Crush Resistance	lb/in	≤ 28 (500N/100mm)								
Min. Bending radius	Operating	15 X Cable O.D								
	Installation	20 X Cable O.D								
Temperature Range	Operating	-40°F to + 158°F (-40°C to +70°C)								
	Storage	-40°F to + 158°F (-40°C to +70°C)								
	Installation	5°F to + 104°F (-15°C to +40°C)								
Fiber Color Coding	/	01~12 : Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise								
		13~24* : Blue, Orange, Green, Brown, Grey, White, Red, Nature, Yellow, Violet, Pink, Turquoise								
Tube Color Coding	/	01~12 : Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise								
		13~24◊ : Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise								
Marking on Outer Sheath	/	White Color and Indent or Inkjet Type (1m Interval)								

*: Fiber identification with one Dot(Ring) black marking
◊:Tube identification with one black stripe(In case of Black tube with white stripe)

250μm Optical Fiber, Multi-Tubes, Thermoplastic Jacket Air Blown Cable

Transmission Performance

Fiber Type	G.657A1
Mode Filed Diameter (μm)	8.9±0.5 at 1310nm
Cladding Diameter (μm)	125±0.7
Cladding Non Circularity (%)	≤ 0.7
Coating Diameter (μm)	242±5 (Uncolored) / 250±10 (Colored)
Wavelengths for Attenuation (nm)	1310/1383/1550
Max. Attenuation (dB/km)	≤ 0.36/0.36/0.23
Wavelengths for Dispersion (nm)	1285~1330/1550
Dispersion (ps/(nm.km))	≤ 3.5/18.0
Zero Dispersion Wavelength (nm)	1302-1324
Zero Dispersion Slope (ps/(nm².km))	≤ 0.092
Cable Cut Off Wavelength (nm)	≤ 1260
Fiber Proof Test Level (kpsi)	100 (0.69Gpa)
Fiber Proof Test Level (kpsi)	100 (0.69Gpa)

Cable Ordering Information

Ex:

1		2		3		4		5		6		7		8		9
F	-	12	-	LTD	-	B	-	12	-	T2	-	NASJ	-	T	-	ME
Fiber		Fiber Count		Product Family		BABA Compliance		Fiber Grouping		Fiber Type		Armor		Glass Type		Add Ons

1 - Fiber

F	:	Indicates Fiber

2 - Fiber Count

001 to 864	:	Total Fiber Count

3 - Product Family

LTD	:	Loose Tube Dry (Gel Free)
LTG	:	Loose Tube Gel Filled
RBD	:	Ribbon Dry (Gel Free)
RGB	:	Ribbon Gel Filled
DG	:	Drop Gel Filled Non Toneable
DGT	:	Drop Gel Filled Toneable

4 - BABA Compliance

B	:	BABA Compliant
	:	If no B, not Compliant

5 - Fiber Grouping

12	:	12 Tubes
24	:	24 Tubes

6 - Fiber Type

T1	:	G657A1
T2	:	G652D
T3	:	BOTH

7 - Armor

NASJ	:	Non-Armored / Single Jacket
SASJ	:	Armored / Single Jacket

8 - Glass Type

C	:	Corning
P	:	Prysmian
T	:	Taihan

9 - Add Ons

M	:	Micro
ME	:	Markings in Meters

1-800-945-5542
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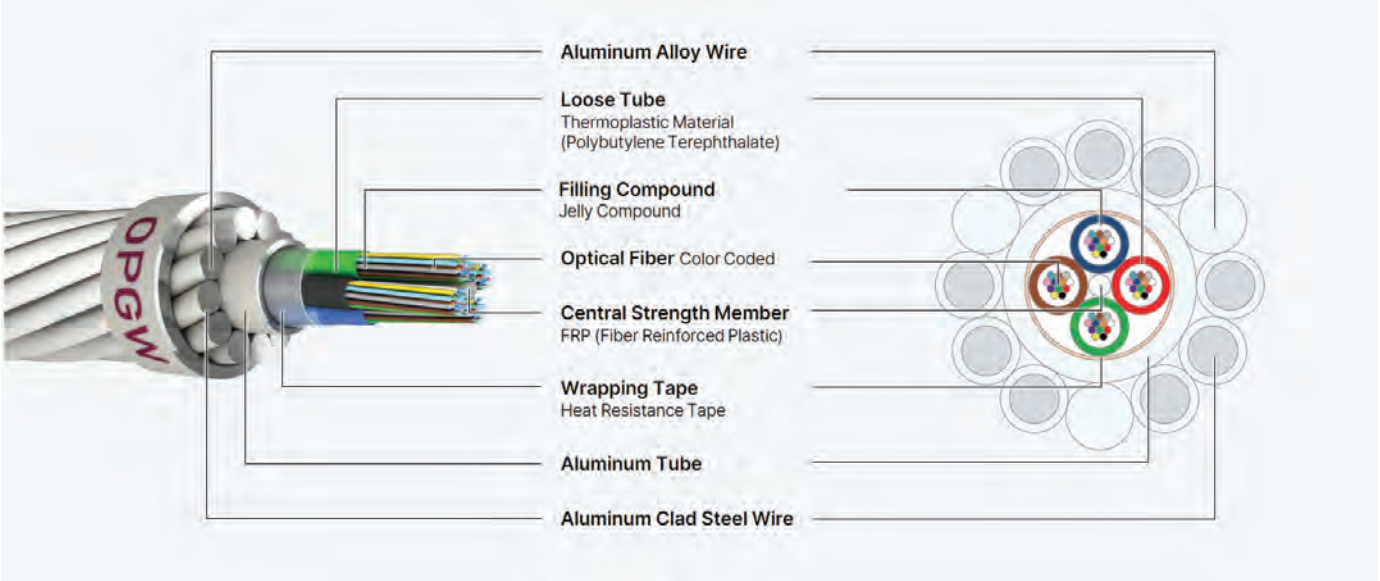
PRIORITY WIRE & CABLE, INC.

02-2025

OPGW Non-Metallic Loose Tube

Optical Ground Wire, Aluminum Tube, Non-metallic Tubes



CABLE DESCRIPTION:

Optical Ground Wire, Aluminum Tube, Non-metallic Tubes Fiber Cable versatile design combines easy splicing and fiber handling, high fiber capacity and extra fiber protection It offers high tensile strength capacities and extra conductive area for fault currents. The Cable is composed of color coded optical thermoplastic tubes stranded or centralized in a central extruded aluminum pipe.

CABLE STANDARDS:

- Cable: IEEE / 1138 IEC 60794-4
- Fiber: TIA 598 / ITU-T G650, 652, 655
- Aluminum clad steel wire: IEC 61232 / ASTM B415
- Aluminum alloy wire: IEC 60104 / ASTM B398
- ISO 9001, 14001 / OHSAS 18001

CABLE FEATURES & BENEFITS:

- Flexibility, Easy break out
- Fiber capacity of up to 192F
- Easy fiber handling and splicing
- Excellent corrosion resistance
- SZ core provides extra mechanical protection
- Improved electrical performance

SPECIFICATION AND DESIGN:

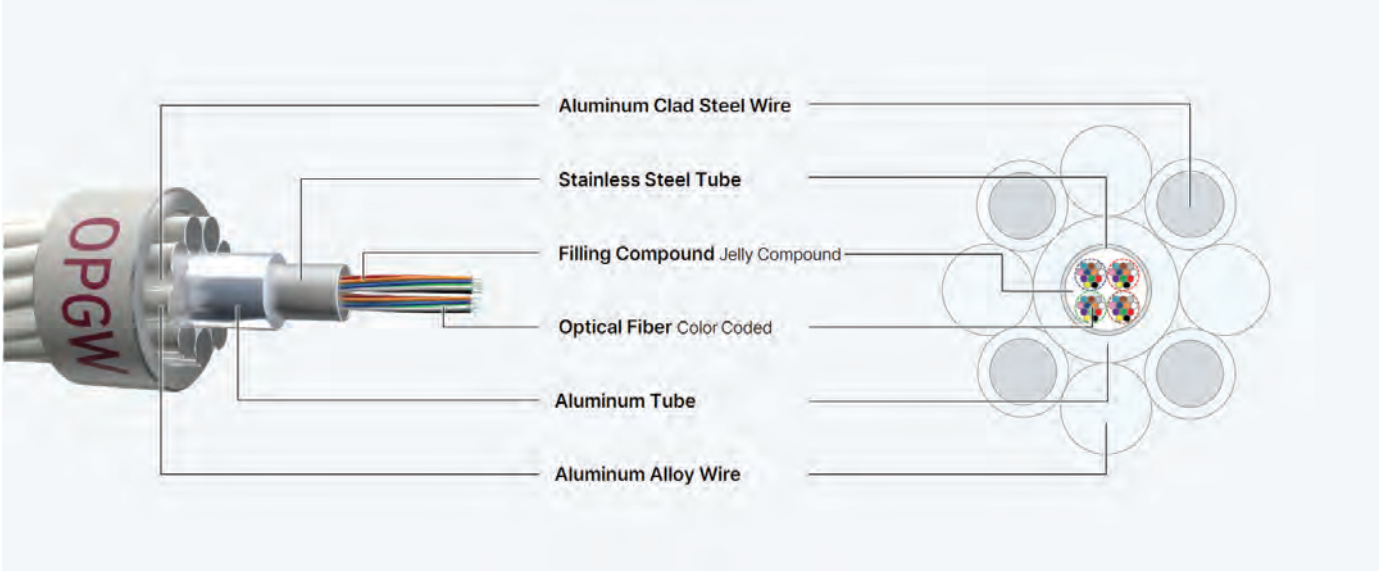
Fibers	Conductor Area		Falut Current	Overall Diameter		Approximate Weight		Approximate RBS	
max	inch	2 mm	2 (kA)	2 sec in.	mm	lbs/ft	kg/km	lbs	kgf
24	0.127	82	45	0.492	12.5	0.319	475	17,284	7,840
24	0.143	92	68	0.528	13.4	0.343	510	15,576	7,065
24	0.171	110	92	0.551	14.0	0.370	550	15,432	7,000
48	0.188	121	99	0.602	15.3	0.464	690	24,626	11,170
48	0.237	153	225	0.646	16.4	0.403	600	15,388	6,980
48	0.290	187	315	0.720	18.3	0.504	750	22,024	9,990
96	0.281	181	277	0.726	18.5	0.538	800	23,281	10,560
96	0.369	238	400	0.819	20.8	0.558	830	15,730	7,135
144	0.234	151	160	0.669	17.0	0.571	850	26,489	12,015
144	0.278	179	281	0.728	18.5	0.538	800	22,950	10,410

All values are nominal and subject to correction

1-800-945-5542
www.PriorityWire.com

OPGW AL Covered Stainless Steel Tube

Optical Ground Wire, Central Steel Tube, Aluminum Clad



CABLE DESCRIPTION:

OPGW AL Covered Stainless Steel Tube Fiber Cable combines strong protection to the optical fibers, reduced diameter options, medium to high fault current and tensile strength capacities. The Cable is composed of color coded optical fiber housed in a gel filled stainless steel tube covered by an aluminum pipe.

CABLE STANDARDS:

- Cable: IEEE / 1138 IEC 60794-4
- Fiber: TIA 598 / ITU-T G650, 652, 655
- Aluminum clad steel wire: IEC 61232 / ASTM B415
- Aluminum alloy wire: IEC 60104 / ASTM B398
- ISO 9001, 14001 / OHSAS 18001

CABLE FEATURES & BENEFITS:

- Excellent crush resistance, Smaller cable diameter
- Fiber capacity of up to 96F
- Optical fibers housed in Al covered Stainless steel tube
- Strong protection to optical fibers
- Excellent corrosion resistance
- Improved electrical performance
- Compact option for high short circuit current and tensile strength

SPECIFICATION AND DESIGN:

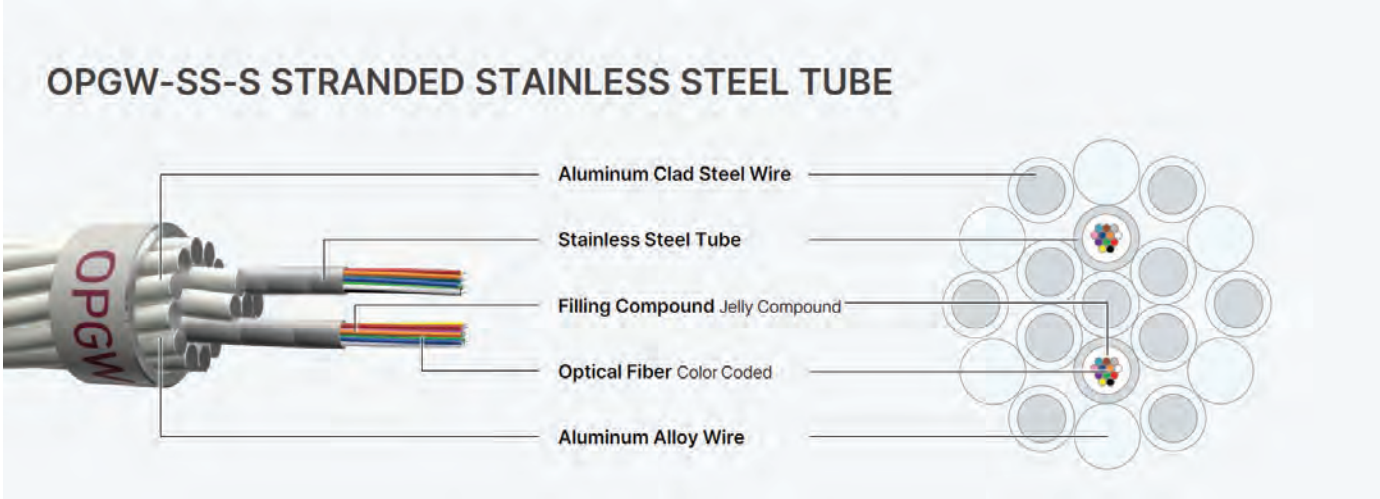
Fibers	Conductor Area		Falut Current	Overall Diameter		Approximate Weight		Approximate RBS	
max	inch	2 mm	2 (kA)	2 sec in.	mm	lbs/ft	kg/km	lbs	kgf
12	0.099	64	22	0.417	10.6	0.262	390	11,607	5,265
12	0.113	73	30	0.445	11.3	0.292	435	15,730	7,135
24	0.098	63	18	0.417	10.6	0.269	400	11,905	5,400
24	0.110	71	27	0.437	11.1	0.286	425	15,785	7,160
24	0.127	82	40	0.476	12.1	0.343	510	21,572	9,785
48	0.154	99	68	0.524	13.3	0.370	550	18,387	8,340
48	0.178	115	68	0.559	14.2	0.390	580	17,527	7,950
48	0.191	123	87	0.571	14.5	0.403	600	15,730	7,135
72	0.222	143	169	0.614	15.6	0.383	570	13,933	6,320
96	0.225	145	118	0.634	16.1	0.470	700	23,369	10,600

All values are nominal and subject to correction

1-800-945-5542
www.PriorityWire.com

OPGW Stainless Steel Tube

Optical Ground Wire, Stranded Stainless Steel Tube



CABLE DESCRIPTION:

OPGW Stainless Steel Tube Fiber Cable combines high mechanical and electrical capabilities, strong protection to the optical fibers and excellent lightning resistance. The cable is composed of color coded optical fiber housed in a gel filled stainless steel tube stranded in one of the wire layers.

CABLE STANDARDS:

- Cable: IEEE / 1138 IEC 60794-4
- Fiber: TIA 598 / ITU-T G650, 652, 655
- Aluminum clad steel wire: IEC 61232 / ASTM B415
- Aluminum alloy wire: IEC 60104 / ASTM B398
- ISO 9001, 14001 / OHSAS 18001

CABLE FEATURES & BENEFITS:

- High tensile strength, Long span capability
- Fiber capacity of up to 288F
- Optical fibers housed in stainless steel tube
- Provides extra mechanical protection
- High strength and long span capability
- Improved mechanical and electrical properties

SPECIFICATION AND DESIGN:

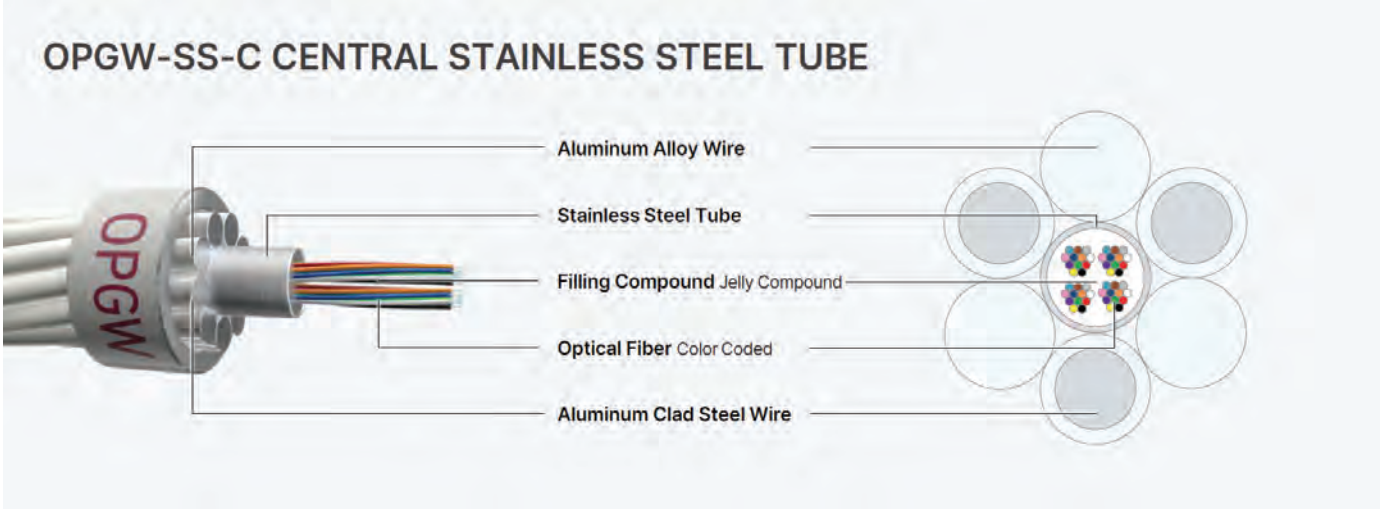
Fibers	Conductor Area		Falut Current	Overall Diameter		Approximate Weight		Approximate RBS	
max	inch	2 mm	2 (kA)	2 sec in.	mm	lbs/ft	kg/km	lbs	kgf
24	0.166	107	63	0.541	13.8	0.302	450	13,944	6,325
48	0.157	101	57	0.541	13.8	0.289	430	12,346	5,600
48	0.254	164	134	0.689	17.5	0.561	835	27,944	12,675
48	0.350	226	282	0.787	20.0	0.635	945	29,498	13,380
96	0.274	177	173	0.722	18.4	0.571	850	26,963	12,230
144	0.225	145	155	0.669	17.0	0.501	745	22,465	10,190
288	0.175	113	97	0.669	17.0	0.477	710	22,300	10,115

All values are nominal and subject to correction

1-800-945-5542
www.PriorityWire.com

OPGW Stainless Steel Tube

Optical Ground Wire, Central Stainless Steel Tube



CABLE DESCRIPTION:

OPGW Stainless Steel Tube Fiber Cable combines high mechanical and electrical capabilities, strong protection to the optical fibers and excellent lightning resistance. The cable is composed of color coded optical fiber housed in a gel filled stainless steel tube located in the central point of the cable.

CABLE STANDARDS:

- Cable: IEEE / 1138 IEC 60794-4
- Fiber: TIA 598 / ITU-T G650, 652, 655
- Aluminum clad steel wire: IEC 61232 / ASTM B415
- Aluminum alloy wire: IEC 60104 / ASTM B398
- ISO 9001, 14001 / OHSAS 18001

CABLE FEATURES & BENEFITS:

- High tensile strength, Long span capability
- Fiber capacity of up to 288F
- Optical fibers housed in stainless steel tube
- Provides extra mechanical protection
- High strength and long span capability
- Improved mechanical and electrical properties

SPECIFICATION AND DESIGN:

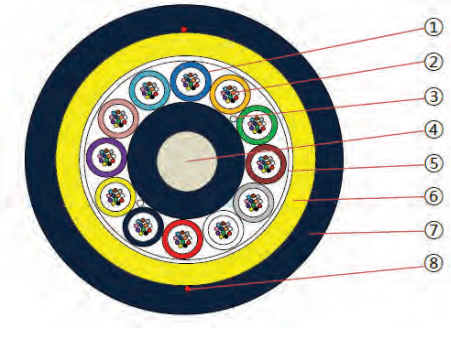
Fibers	Conductor Area		Falut Current	Overall Diameter		Approximate Weight		Approximate RBS	
max	inch	2 mm	2 (kA)	2 sec in.	mm	lbs/ft	kg/km	lbs	kgf
48	0.095	61	22	0.425	10.8	0.212	315	10,123	4,590
48	0.095	61	14	0.425	10.8	0.292	435	16,364	7,420
72	0.129	83	41	0.496	12.6	0.284	424	13,784	6,250
72	0.129	83	27	0.496	12.6	0.414	616	22,274	10,100
96	0.122	79	39	0.496	12.6	0.268	399	12,008	5,445
96	0.122	79	24	0.496	12.6	0.388	578	21,271	9,645

All values are nominal and subject to correction

Optical Fiber, Gel-filled Multi-Tube Stranded(S/Z), Dry Core, Single Jacket, ADSS Cable

CABLE CONSTRUCTION

1. Loose tube: PBT with Gel filled
2. Fiber: 12 colors coding
3. Filling material : Water blocking yarn
4. Central strength member FRP with PE coating
5. Wrapping material : Water blocking tape
6. Peripheral strength member: Aramid yarns
7. Outer jacket : Black color HDPE with UV resistance
8. Stripping material: Ripcords



CABLE STANDARDS

- ITU-T G.650, G.652D / IEC 60793, 60794
- IEEE 1222
- TIA-598
- ISO 9001, 14001 / OHSAS 18001

CABLE FEATURES & BENEFTS

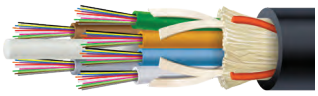
- Dry block (semi-dry): Easy preparation
- Color-coded fibers: Easy and quick identification
- Loose tube design: Stable performance and compatibility with all common fiber type
- All-Dielectric: No effect to electric lines

SPECIFICATION AND DESIGN

Item	Unit	Value			
Fiber Count	/	12-60	72	96	144
Cable Outer Diameter	in (mm)	0.421 (10.7)	0.445 (11.3)	0.512 (13)	0.646 (16.4)
Cable Weight	lb/kft(kg/km)	0.056 (84)	0.065 (97)	0.085 (126)	0.134 (199)
Number of Fiber per Tube	/	12	12	12	12
Number of Tube Position	/	5	6	8	12
Number of Active Tube	/	1~5	6	8	12
Number of Filler	/	0~4	0	0	0
Max. Rated Cable Load	lbs (kgf)	582 (264)	580 (263)	699 (317)	941 (427)
Approx. Breaking Load	lbs (kgf)	1,146 (520)	1,144 (519)	1,351 (613)	1,810 (821)
Fiber Coloring	/	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua			
Tube Coloring (1~12)	/	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Aqua			
Jacket Material	/	Indent type with white color, 1m interval			
Storage Temperature	Storage	-40°C to +70°C			
Installation Temperature	Installation	-10°C to +40°C			
Operation Temperature	Operation	-40°C to +70°C			
Min. Bending Radius	With Load	20 X Outer Diameter of Cable			
	Without Load	10 X Outer Diameter of Cable			

All values are nominal and subject to correction

Optical Fiber, Gel-filled Multi-Tube Stranded(S/Z), Dry Core, Single Jacket, ADSS Cable



TRANSMISSION PERFORMANCE

Fiber type	Single-Mode Fiber- G.652D
Mode filed diameter (μm)	9.2±0.5 at 1310nm
Mode field concentricity error (μm)	≤ 0.7
Cladding diameter (μm)	125±1.0
Cladding non circularity (%)	≤ 1.0
Coating diameter (μm)	242±10 (Uncolored) / 250±10 (Colored)
Wavelengths for attenuation (nm)	1310/1550
Attenuation (dB/km)	≤ 0.35/0.25
Wavelengths for dispersion (nm)	1285~1330/1550
Dispersion (ps/(nm.km))	≤ 3.5/18.0
Zero dispersion wavelength (nm)	1300-1324
Cable cut off wavelength (nm)	≤ 1260
Zero dispersion slope (ps/(nm^2.km))	≤ 0.092
Fiber proof test level (kpsi)	100 (0.69GPa)

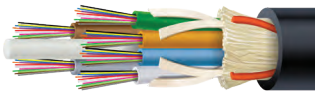
Sag and Tension Chart for Reference (12-60C)

Span	Installation at 16°C		NESC Light		NESC Medium		NESC Heavy	
	Vert-Sag	Tension	Vert-Sag	Tension	Vert-Sag	Tension	Vert-Sag	Tension
ft (m)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)
200 (61)	3.02 (0.92)	93 (42)	1.18 (0.36)	273 (124)	5.38 (1.64)	370 (168)	8.17 (2.49)	538 (244)
250 (76)	3.77 (1.15)	117 (53)	1.57 (0.48)	322 (146)	7.15 (2.18)	434 (197)	-	-
300 (91)	4.53 (1.38)	139 (63)	2.00 (0.61)	366 (166)	9.09 (2.77)	494 (224)	-	-
350 (107)	5.25 (1.60)	163 (74)	2.43 (0.74)	412 (187)	11.1 (3.37)	553 (251)	-	-
400 (122)	6.00 (1.83)	187 (85)	2.85 (0.87)	454 (206)	-	-	-	-
450 (137)	6.66 (2.03)	209 (95)	3.31 (1.01)	496 (225)	-	-	-	-
500 (152)	7.55 (2.30)	231 (105)	3.81 (1.16)	536 (243)	-	-	-	-

Sag and Tension Chart for Reference (72C)

Span	Installation at 16°C		NESC Light		NESC Medium		NESC Heavy	
	Vert-Sag	Tension	Vert-Sag	Tension	Vert-Sag	Tension	Vert-Sag	Tension
ft (m)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)
200 (61)	2.99 (0.91)	108 (49)	1.31 (0.40)	287 (130)	5.45 (1.66)	384 (174)	8.20 (2.50)	551 (250)
250 (76)	3.77 (1.15)	134 (61)	1.74 (0.53)	340 (154)	7.25 (2.21)	450 (204)	-	-
300 (91)	4.53 (1.38)	161 (73)	2.17 (0.66)	388 (176)	9.19 (2.80)	511 (232)	-	-
350 (107)	5.25 (1.60)	190 (86)	2.62 (0.80)	437 (198)	11.2 (3.41)	573 (260)	-	-
400 (122)	6.00 (1.83)	216 (98)	3.12 (0.95)	481 (218)	-	-	-	-
450 (137)	6.76 (2.06)	245 (111)	3.61 (1.10)	527 (239)	-	-	-	-
500 (152)	7.51 (2.29)	271 (123)	4.13 (1.26)	569 (258)	-	-	-	-

Optical Fiber, Gel-filled Multi-Tube Stranded(S/Z), Dry Core, Single Jacket, ADSS Cable



Sag and Tension Chart for Reference (96C)

Span	Installation at 16°C		NESC Light		NESC Medium		NESC Heavy	
	Vert-Sag	Tension	Vert-Sag	Tension	Vert-Sag	Tension	Vert-Sag	Tension
ft (m)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)
200 (61)	2.99 (0.91)	141 (64)	1.41 (0.43)	337 (153)	5.35 (1.63)	432 (196)	7.91 (2.41)	611 (277)
250 (76)	3.77 (1.15)	176 (80)	1.87 (0.57)	399 (181)	7.12 (2.17)	507 (230)	-	-
300 (91)	4.53 (1.38)	209 (95)	2.36 (0.72)	456 (207)	9.02 (2.75)	578 (262)	-	-
350 (107)	5.25 (1.60)	247 (112)	2.85 (0.87)	514 (233)	11.0 (3.34)	648 (294)	-	-
400 (122)	6.04 (1.84)	282 (128)	3.38 (1.03)	569 (258)	-	-	-	-
450 (137)	6.79 (2.07)	317 (144)	3.94 (1.20)	622 (282)	-	-	-	-
500 (152)	7.51 (2.29)	351 (159)	4.46 (1.36)	672 (305)	-	-	-	-

Sag and Tension Chart for Reference (144C)

Span	Installation at 16°C		NESC Light		NESC Medium		NESC Heavy	
	Vert-Sag	Tension	Vert-Sag	Tension	Vert-Sag	Tension	Vert-Sag	Tension
ft (m)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)	ft (m)	lbs (kgf)
200 (61)	2.99 (0.91)	223 (101)	1.64 (0.50)	454 (206)	5.12 (1.56)	549 (249)	7.35 (2.24)	754 (342)
250 (76)	3.77 (1.15)	278 (126)	2.13 (0.65)	538 (244)	6.79 (2.07)	646 (293)	-	-
300 (91)	4.53 (1.38)	333 (151)	2.69 (0.82)	617 (280)	8.56 (2.61)	739 (335)	-	-
350 (107)	5.25 (1.60)	390 (177)	3.25 (0.99)	697 (316)	10.4 (3.17)	829 (376)	-	-
400 (122)	6.00 (1.83)	445 (202)	3.84 (1.17)	772 (350)	-	-	-	-
450 (137)	6.76 (2.06)	500 (227)	4.43 (1.35)	844 (383)	-	-	-	-
500 (152)	7.51 (2.29)	556 (252)	5.02 (1.53)	917 (416)	-	-	-	-

PRIORITY WIRE & CABLE, INC.

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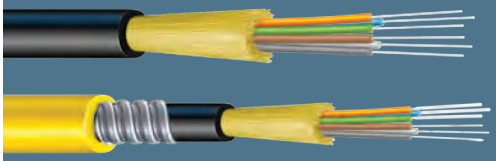
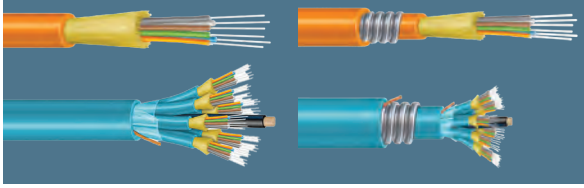
FIBER OPTIC CABLE PRODUCT LINE

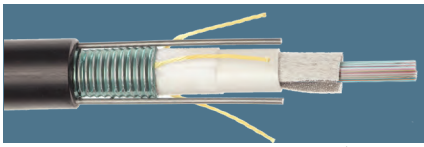


GenSPEED® Distribution Indoor-Outdoor Tight Buffered

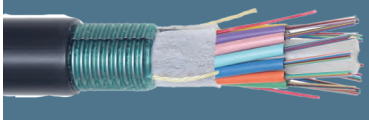


GenSPEED® Distribution Indoor Tight Buffered

Dry FusionLink™ Ribbon Central Tube (Dry) Cable



Dry FusionLink™ Armored Ribbon Central Tube (Dry) Cable



ExpressLT™ Dry Dry Loose Tube Cable

ResiLink™ ADF All-Dielectric Flat Drop Cable

ResiLink™ TF Toneable Flat Drop Cable

Long Span ADSS