UTEX UKRAINE

FIBER OPTIC CABLE CATALOG

Fiber optic cables by UTEX – arteries of your connections

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ABOUT THE COMPANY

Igor Mazur
Founder of the UTEX Company

The cable industry is developing dynamically and is actualized adapting to modern times. As manufacturer of cable products, we must also renew our-selves and be one-step ahead.

Our company has already achieved one of the main goals - we are well-known manufacturer of optical cables and have a solid team of professionals. The use of our innovative technologies and high-quality materials has allowed us to come to the market in 5 years and operate in it along with companies that have been going for a long period. We have occupied a significant share of Ukrainian market and are never going to stop moving.

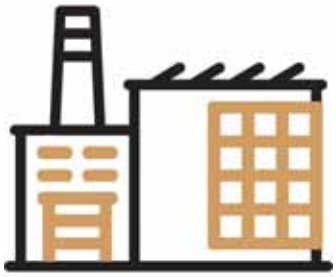
Our priority is to be a leader among manufacturers of high-quality optical cables.

Now we are already expanding our production capacities and making ambitious plans for the future.

Utex Ukraine is something greater than just a company is. It is an image of stability and quality, an impeccable work of like-minded people.

To be the best choice for our clients and to keep getting better is our goal number one.

1
FACTORY
UKRAINE, CHERNIHIV



6.000 km
OF CABLES
PER MONTH

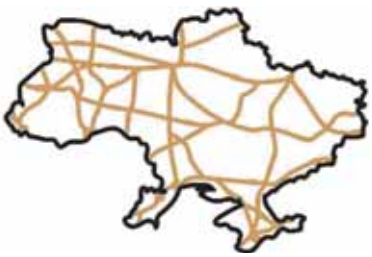
223
OF CABLES MODELS

EACH
4th km
OF CABLE IN UKRAINE
IS THE UTEX CABLE

COOPERATION WITH
10
COUNTRIES
AROUND THE WORLD

7
REGIONAL
REPRESENTATIVE
OFFICES IN UKRAINE

1
REPRESENTATIVE
OFFICE
IN NORTH AMERICA



THE LENGTH OF THE OPTICAL NETWORKS CONSTRUCTED ON THE **UTEX** CABLE

= 70%

OF THE TOTAL LENGTH OF ALL ROADS OF UKRAINE

UTEX's ADVANTAGES

USE OF MATERIALS ONLY FROM WORLD LEADERS

CORNING DOW BOREALIS

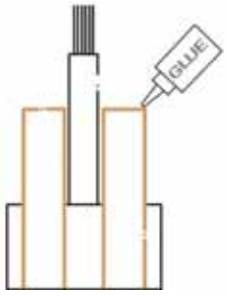
SUSPENSION CABLES: FIBERS ARE NOT PULLED IN!

To compensate to the natural tension of the suspended cable, we provide an EFL (excess fiber length), with prevent the fiber from being stretched internally and causing the effect of "pulling in" the fibers.

CONTROL

The Company controls the quality of our products at all technological stages of production

E.A.A. COATED RODS



The use of fiber-glass rods with gluing gives the DROP cable a better structural integrity, smaller diameter and lower weight. This allows you to increased cable tensile strength.

TECHNOLOGY AND INNOVATION

The Company regularly allocates 5% of incomings for innovative solutions.

SUPPORT SERVICE

Prompt response to any question from customers

OPERATIONAL ACTIVITY

The average production time is 14 days
The minimum one is 24 hours

WARRANTY OF QUALITY

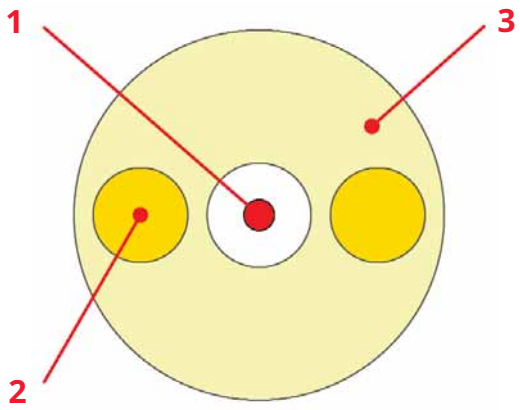
The warranty period is 4 years

THE QUALITY OF THE UTEX FIBER CABLE AND ITS STRUCTURE ADAPTATION FLEXIBILITY ARE RECOGNIZED ON THE EUROPEAN MARKET

TUV NORD company, according to ISO9001, certifies UTEX UKRAINE:2015 and ISO14001:2015. UTEX cables compliant CPR EN 50575

OPTICAL CABLE
J-(ZN-2P)H 1E 0,1/0,3kN

ID:A03F19



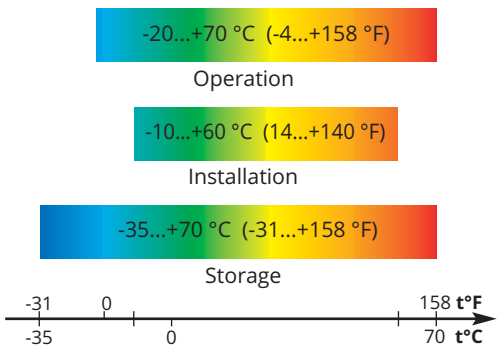
Indoor

Flame resistant

All-dielectric

Compression resistant

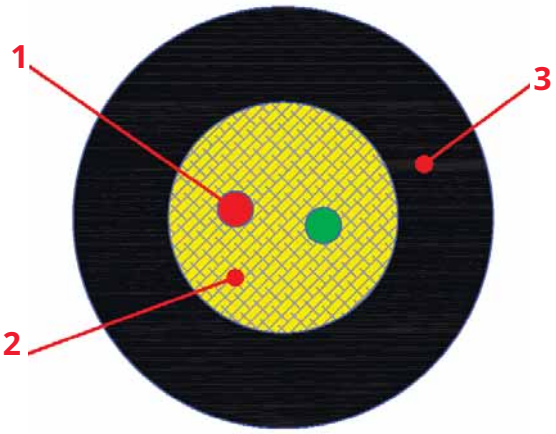
1	Optical fiber		**Single-mode Rec. ITU-T G.657.A1** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/km	≤ 0,32
		(λ= 1550 nm), dB/km	≤ 0,22
2	Tensile Strength Element		FRP rod
3	Outer Jacket		Compound LSZH, white



Fiber Count		1
Cable diameter	mm (in)	3,0±0,2 (0,12)
Cable weight	(±5%), kg/km (lbs/kft)	10,3 (6,9)
Max. tensile load	Installation, N (lbs)	300 (67)
	Operational, N (lbs)	100 (22)
Crush resistance,	N/10 cm	2500
Cable modulus of elasticity,	N/mm²	2563,0
Effective cable area,	mm²	6,4
Thermal expansion coefficient,	°C⁻¹	2,01E-05
Min. bending radius		5 x Ø cable

[1] - There are other types of fibers available for this cable according to the customer's request.

OPTICAL CABLE
A/J-(ZN-AY)H xE 0,3/0,8kN



Aerial, self-support

Indoor

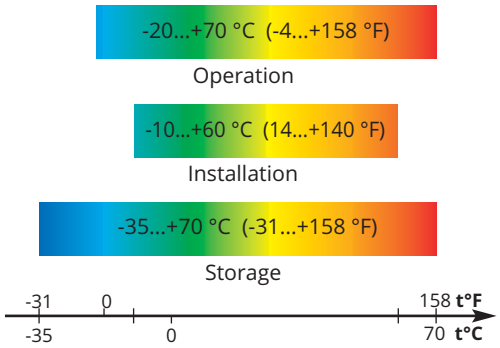
Flame resistant

Outdoor

UV resistant

All-dielectric

1	Optical fiber		**Single-mode Rec. ITU-T G.657.A2** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,4
		(λ= 1550 nm), dB/км	≤ 0,3
2	Peripheral strength elements		Aramid yarn
3	Outer jacket		Thermoplastic LSZH, black, UV resistance

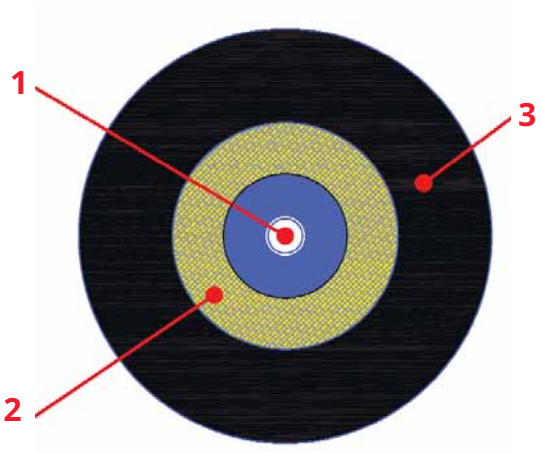


		A08F1K	A08F2K	A08F3K
Fiber Count (x)		1	2	4
Cable diameter	mm (in)	3,0±0,2 (0,12)		
Cable weight	(±5%), kg/km (lbs/kft)	9,0 (6,0)		
Max. tensile load	Installation, N (lbs)	800 (180)		
	Operational, N (lbs)	300 (67)		
Crush resistance,	N/10 cm	2500		
Cable modulus of elasticity,	N/mm²	9268,7		
Effective cable area,	mm²	4,9		
Thermal expansion coefficient,	°C⁻¹	8,48E-07		
Min. bending radius		7 x Ø cable		

[1] - There are other types of fibers available for this cable according to the customer's request.

OPTICAL CABLE
A/J-V(ZN-AY)H xE 0,3/0,8kN

ID: A08Bx4



Aerial, self-support

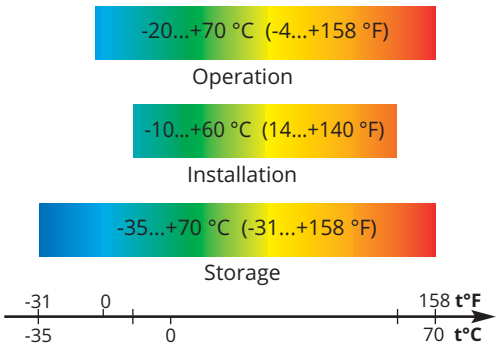
Indoor

Flame resistant

Outdoor

UV resistant

All-dielectric



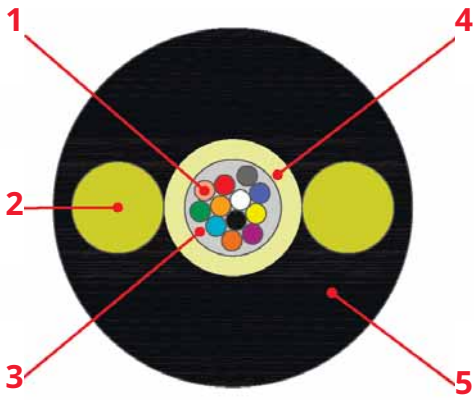
1	Optical fiber in a buffer coating		**Single-mode Rec. ITU-T G.657.A2** (default[1])
	Cladding Diameter (±0,7), µm		125
	Coating Diameter (±5), µm		242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,4
		(λ= 1550 nm), dB/км	≤ 0,3
2	Peripheral strength elements		Aramid yarn
3	Outer jacket		Thermoplastic LSZH, black, UV resistance

Fiber Count (x)		1	2
Buffer diameter	mm (in)	0,9±0,05 (0,035)	0,9±0,05 (0,035)
Cable diameter	mm (in)	3,0±0,2 (0,12)	3,5±0,2 (0,14)
Cable weight	(±5%), kg/km (lbs/kft	10,0 (6,7)	13,4 (9,0)
Max. tensile load	Installation, kN	800 (180)	
	Operational, kN	300 (67)	
Crush resistance,	N/10 cm	2500	
Cable modulus of elasticity, N/mm²		7162,5	
Effective cable area, mm²		6,3	
Thermal expansion coefficient, °C⁻¹		2,14E-06	
Min. bending radius		7 x Ø cable	

[1] - There are other types of fibers available for this cable according to the customer's request.

ID:A11TxS

OPTICAL CABLE
A/J-B(ZN-2PH xE 0,2/1,0kN



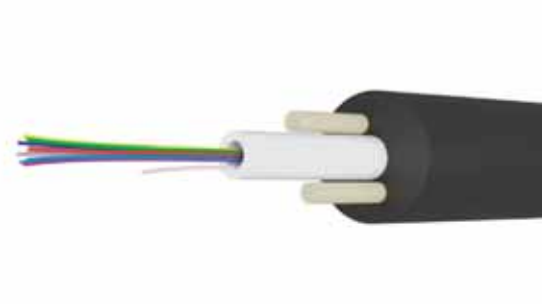
Aerial, self-support

Indoor

UV resistant

Flame resistant

All-dielectric



1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), μm	125
	Coating Diameter	(±5), μm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Tensile strength elements		FRP rods with EAA coating
3	Water blocking element		Water blocking yarn
4	Loose Tube		PBT, Gel-free
5	Outer jacket		Thermoplastic LSZH, black, UV-resistance

-20...+70 °C (-4...+158 °F)
Operation

-10...+60 °C (14...+140 °F)
Installation

-35...+70 °C (-31...+158 °F)
Storage

-31 0 158 t°F
-35 0 70 t°C

	1 -4 FO			8 -12 FO			16 -24 FO		
NESC [2]	Light	Medium	Heavy	Light	Medium	Heavy	Light	Medium	Heavy
Mounting sag,%	1,1			1,4			1,6		
Span,m (ft)	70 (230)	40 (131)	30 (98)	60 (197)	40 (131)	30 (98)	60 (197)	50 (164)	40 (131)
Sag(max),m	2,37	1,90	1,72	2,05	1,90	2,49	2,12	2,55	2,49
Load,N (lbs)	384 (86)	490 (110)	634 (143)	385 (87)	514 (116)	798 (179)	403 (91)	613 (138)	810 (182)

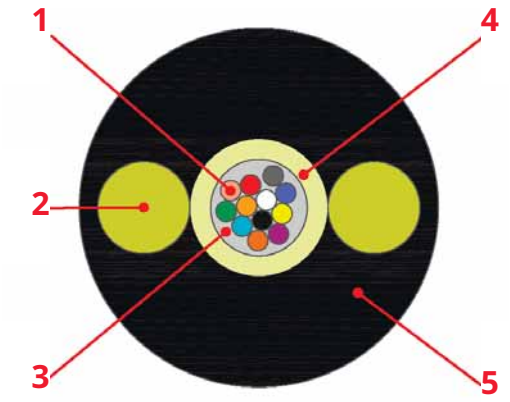
		A11T2S	A11T3S	A11T5S	A11T7S	A11TAS	A11TES
Fiber Count (x)		2	4	8	12	16	24
Central tube diameter	mm (in)	1,8±0,2 (0,07)		2,5±0,2 (0,10)		3,0±0,2 (0,12)	
Cable diameter	mm (in)	4,5±0,3 (0,18)		5,5±0,3 (0,22)		6,0±0,3 (0,24)	
Cable weight	(±5%), kg/km (lbs/kft)	24 (16,1)		35 (23,5)		41 (27,6)	
Max. tensile load	Installation, N (lbs)	1000 (225)					
	Operational, N (lbs)	200 (45)					
Crush resistance,	N/10 cm	2500					
Cable modulus of elasticity, N/mm²		4159		3004		2669	
Effective cable area, mm²		14,8		21,2		24,5	
Thermal expansion coefficient, °C⁻¹		1,54E-05		1,96E-05		2,18E-05	
Min. bending radius		15 x Ø cable					

[1] - There are other types of fibers available for this cable according to the customer's request.

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-D(ZN-2P)2Y xE nkN

ID: A10TxA



Aerial, self-support

Direct burying

UV resistant

All-dielectric

-40...+70 °C (-40...+158 °F)
Operation

-30...+60 °C (-22...+140 °F)
Installation

-40...+70 °C (-40...+158 °F)
Storage

-40 0 158 t°F
-40 0 70 t°C

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Tensile strength elements		FRP rods with EAA coating
3	Water blocking element		Thixotropic filling compound (gel)
4	Loose Tube		Polybutylene terephthalate (PBT)
5	Outer jacket		Polyethylene (HDPE), black, UV-resistance

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag				
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%				
70 (230)	50 (164)	40 (131)	**1**	1200 (270)	400 (90)	0,7	1,8 (0,07)	4,5 (0,18)	17 (11,4)	A10T1A
70 (230)	50 (164)	40 (131)	**2**	1200 (270)	400 (90)	0,7	1,8 (0,07)	4,5 (0,18)	17 (11,4)	A10T2A
70 (230)	50 (164)	40 (131)	**4**	1200 (270)	400 (90)	0,7	1,8 (0,07)	4,5 (0,18)	17 (11,4)	A10T3A
60 (197)	50 (164)	40 (131)	**8**	1200 (270)	400 (90)	0,8	2,5 (0,10)	5,5 (0,22)	25 (16,8)	A10T5A
60 (197)	50 (164)	40 (131)	**12**	1200 (270)	400 (90)	0,8	2,5 (0,10)	5,5 (0,22)	25 (16,8)	A10T7A
70 (230)	50 (164)	40 (131)	**16**	1200 (270)	400 (90)	1,3	3,0 (0,12)	6,0 (0,24)	30 (20,2)	A10TAA
70 (230)	50 (164)	40 (131)	**24**	1200 (270)	400 (90)	1,3	3,0 (0,12)	6,0 (0,24)	30 (20,2)	A10TEA

[1] - There are other types of fibers available for this cable according to the customer's request.

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-D(ZN-2P)2Y xE nkN

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag				
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%				
90 (295)	60 (197)	50 (164)	**1**	1500 (337)	600 (135)	0,8	1,8 (0,07)	5,0 (0,20)	22 (14,8)	A15T1B
90 (295)	60 (197)	50 (164)	**2**	1500 (337)	600 (135)	0,8	1,8 (0,07)	5,0 (0,20)	22 (14,8)	A15T2B
90 (295)	60 (197)	50 (164)	**4**	1500 (337)	600 (135)	0,8	1,8 (0,07)	5,0 (0,20)	22 (14,8)	A15T3B
90 (295)	60 (197)	50 (164)	**8**	1500 (337)	600 (135)	1,1	2,5 (0,10)	6,0 (0,24)	31 (20,8)	A15T5B
90 (295)	60 (197)	50 (164)	**12**	1500 (337)	600 (135)	1,1	2,5 (0,10)	6,0 (0,24)	31 (20,8)	A15T7B
80 (262)	60 (197)	50 (164)	**16**	1500 (337)	600 (135)	1,1	3,0 (0,12)	6,4 (0,25)	35 (23,5)	A15TAB
80 (262)	60 (197)	50 (164)	**24**	1500 (337)	600 (135)	1,1	3,0 (0,12)	6,4 (0,25)	35 (23,5)	A15TEB

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light15	Medium	Heavy		Installation (n)	Operational	Sag				
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%				
130 (427)	90 (295)	70 (230)	**1**	2000 (450)	1000 (225)	1,2	1,8 (0,07)	5,8 (0,23)	30 (20,2)	A20T1C
130 (427)	90 (295)	70 (230)	**2**	2000 (450)	1000 (225)	1,2	1,8 (0,07)	5,8 (0,23)	30 (20,2)	A20T2C
130 (427)	90 (295)	70 (230)	**4**	2000 (450)	1000 (225)	1,2	1,8 (0,07)	5,8 (0,23)	30 (20,2)	A20T3C
130 (427)	90 (295)	70 (230)	**8**	2000 (450)	1000 (225)	1,2	2,5 (0,10)	6,5 (0,26)	37 (24,9)	A20T5C
130 (427)	90 (295)	70 (230)	**12**	2000 (450)	1000 (225)	1,2	2,5 (0,10)	6,5 (0,26)	37 (24,9)	A20T7C
110 (361)	90 (295)	70 (230)	**16**	2000 (450)	1000 (225)	1,2	3,0 (0,12)	7,0 (0,28)	43 (28,9)	A20TAC
110 (361)	90 (295)	70 (230)	**24**	2000 (450)	1000 (225)	1,2	3,0 (0,12)	7,0 (0,28)	43 (28,9)	A20TEC

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag				
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%				
150 (492)	100 (328)	80 (262)	**2**	2500 (562)	1200 (270)	1,0	1,8 (0,07)	6,5 (0,26)	38,1 (25,6)	A25T2D
150 (492)	100 (328)	80 (262)	**4**	2500 (562)	1200 (270)	1,0	1,8 (0,07)	6,5 (0,26)	38,1 (25,6)	A25T3D
140 (459)	100 (328)	80 (262)	**8**	2500 (562)	1200 (270)	1,2	2,5 (0,10)	7,2 (0,28)	45,9 (30,8)	A25T5D
140 (459)	100 (328)	80 (262)	**12**	2500 (562)	1200 (270)	1,2	2,5 (0,10)	7,2 (0,28)	45,9 (30,8)	A25T7D
130 (427)	100 (328)	80 (262)	**16**	2500 (562)	1200 (270)	1,3	3,0 (0,12)	8,0 (0,31)	55,4 (37,2)	A25TAD
130 (427)	100 (328)	80 (262)	**24**	2500 (562)	1200 (270)	1,3	3,0 (0,12)	8,0 (0,31)	55,4 (37,2)	A25TED

Crush resistance — 3000 N/10 cm
Min. bending radius — 15 x Ø cable

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
Flat-A-D(ZN-2P)2Y xE nkN

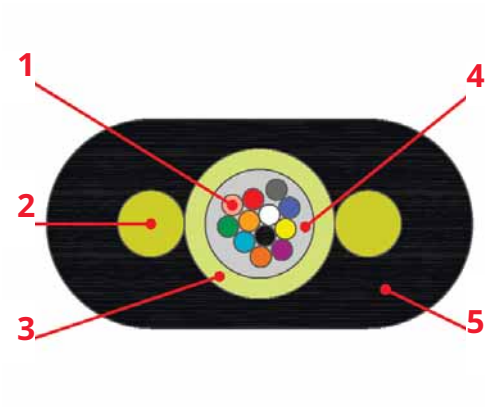
ID: A10TxE

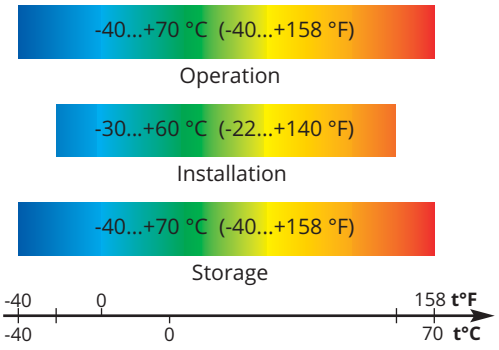
Aerial, self-support

UV resistant

All-dielectric

Direct Burying





1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Tensile strength elements		FRP rods with EAA coating [3]
3	Loose Tube		Polybutylene terephthalate (PBT)
4	Water blocking element		Thixotropic filling compound (gel)
5	Outer jacket		Polyethylene (HDPE), black, UV-resistance

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable size mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag				
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%				
70 (230)	50 (164)	40 (131)	**1**	1000 (270)	400 (90)	0,6	1,8 (0,07)	4,8x2,6 (0,19x0,10)	13 (8,7)	A10T1E
70 (230)	50 (164)	40 (131)	**2**	1000 (270)	400 (90)	0,6	1,8 (0,07)	4,8x2,6 (0,19x0,10)	13 (8,7)	A10T2E
70 (230)	50 (164)	40 (131)	**4**	1000 (270)	400 (90)	0,6	1,8 (0,07)	4,8x2,6 (0,19x0,10)	13 (8,7)	A10T3E
70 (230)	50 (164)	40 (131)	**8**	1000 (270)	400 (90)	0,9	2,5 (0,10)	5,8x3,5 (0,23x0,14)	19 (12,8)	A10T5E
70 (230)	50 (164)	40 (131)	**12**	1000 (270)	400 (90)	0,9	2,5 (0,10)	5,8x3,5 (0,23x0,14)	19 (12,8)	A10T7E
70 (230)	50 (164)	40 (131)	**16**	1000 (270)	400 (90)	1,0	3,0 (0,12)	6,2x4,0 (0,24x0,16)	23 (15,5)	A10TAE
70 (230)	50 (164)	40 (131)	**24**	1000 (270)	400 (90)	1,0	3,0 (0,12)	6,2x4,0 (0,24x0,16)	23 (15,5)	A10TEE

[1] - There are other types of fibers available for this cable according to the customer's request.

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

[3] - FRP rods in ID A13TxA (cables for SPAN 100m/330ft) are not EAA coated

OPTICAL CABLE
Flat-A-D(ZN-2P)2Y xE nkN

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable size mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag				
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%				
100 (330)	76 (250)	46 (150)	**1**	1335 (300)	400 (90)	1,0	2,0 (0,08)	8,0x4,3 (0,32x0,17)	33 (22,2)	A13T1A
100 (330)	76 (250)	46 (150)	**2**	1335 (300)	400 (90)	1,0	2,0 (0,08)	8,0x4,3 (0,32x0,17)	33 (22,2)	A13T2A
100 (330)	76 (250)	46 (150)	**4**	1335 (300)	400 (90)	1,0	2,0 (0,08)	8,0x4,3 (0,32x0,17)	33 (22,2)	A13T3A
100 (330)	76 (250)	46 (150)	**8**	1335 (300)	400 (90)	1,0	2,5 (0,10)	8,0x4,3 (0,32x0,17)	33 (22,2)	A13T5A
100 (330)	76 (250)	46 (150)	**12**	1335 (300)	400 (90)	1,0	2,5 (0,10)	8,0x4,3 (0,32x0,17)	33 (22,2)	A13T7A
100 (330)	76 (250)	46 (150)	**16**	1335 (300)	400 (90)	1,0	3,0 (0,12)	8,0x4,3 (0,32x0,17)	33 (22,2)	A13TAA
100 (330)	76 (250)	46 (150)	**24**	1335 (300)	400 (90)	1,0	3,0 (0,12)	8,0x4,3 (0,32x0,17)	33 (22,2)	A13TEA

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable size mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag				
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%				
150 (492)	90 (295)	70 (230)	**2**	2000 (450)	1000 (225)	0,8	1,8 (0,07)	6,2x2,8 (0,24x0,11)	20 (13,4)	A20T2F
150 (492)	90 (295)	70 (230)	**4**	2000 (450)	1000 (225)	0,8	1,8 (0,07)	6,2x2,8 (0,24x0,11)	20 (13,4)	A20T3F
140 (459)	90 (295)	70 (230)	**8**	2000 (450)	1000 (225)	1,0	2,5 (0,10)	6,2x2,8 (0,24x0,11)	27 (18,1)	A20T5F
140 (459)	90 (295)	70 (230)	**12**	2000 (450)	1000 (225)	1,0	2,5 (0,10)	6,2x2,8 (0,24x0,11)	27 (18,1)	A20T7F
140 (459)	90 (295)	70 (230)	**16**	2000 (450)	1000 (225)	1,0	3,0 (0,12)	7,0x4,0 (0,28x0,16)	29 (19,5)	A20TAF
140 (459)	90 (295)	70 (230)	**24**	2000 (450)	1000 (225)	1,0	3,0 (0,12)	7,0x4,0 (0,28x0,16)	29 (19,5)	A20TEF

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable size mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag				
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%				
170 (558)	100 (328)	80 (262)	**2**	2500 (562)	1200 (270)	0,7	1,8 (0,07)	6,6x3,0 (0,26x0,12)	24 (16,1)	A25T2C
170 (558)	100 (328)	80 (262)	**4**	2500 (562)	1200 (270)	0,7	1,8 (0,07)	6,6x3,0 (0,26x0,12)	24 (16,1)	A25T3C
160 (525)	100 (328)	80 (262)	**8**	2500 (562)	1200 (270)	0,9	2,5 (0,10)	7,4x3,8 (0,29x0,15)	31 (20,8)	A25T5C
160 (525)	100 (328)	80 (262)	**12**	2500 (562)	1200 (270)	0,9	2,5 (0,10)	7,4x3,8 (0,29x0,15)	31 (20,8)	A25T7C
160 (525)	100 (328)	80 (262)	**16**	2500 (562)	1200 (270)	1,0	3,0 (0,12)	8,0x4,4 (0,31x0,17)	37 (24,9)	A25TAC
160 (525)	100 (328)	80 (262)	**24**	2500 (562)	1200 (270)	1,0	3,0 (0,12)	8,0x4,4 (0,31x0,17)	37 (24,9)	A25TEC

Crush resistance — 3000 N/10 cm
Min. bending radius — 50 mm

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
Flat-A-D(ZN-2P)2Y 2Tx 2,0kN

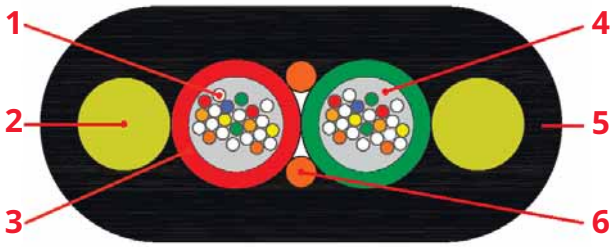
ID:A20TxE

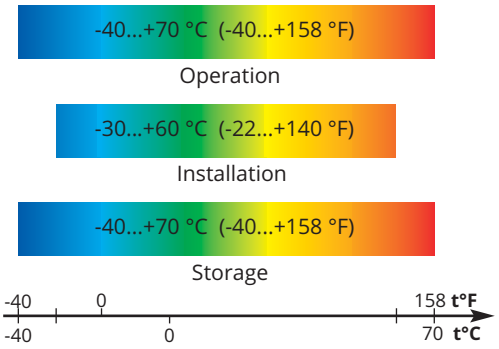
Aerial, self-support

UV resistant

All-dielectric

Direct Burying





1	Optical fiber	**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter (±0,7), µm	125
	Coating Diameter (±5), µm	242
	Attenuation (λ= 1310 nm), dB/км	≤ 0,32
	Attenuation (λ= 1550 nm), dB/км	≤ 0,22
2	Tensile strength elements	FRP rods with EAA coating
3	Loose Tube	Polybutylene terephthalate (PBT)
4	Water blocking element	Thixotropic filling compound (gel)
5	Outer jacket	Polyethylene (HDPE), black, UV-resistance
6	Ripcord	Polyester yarn

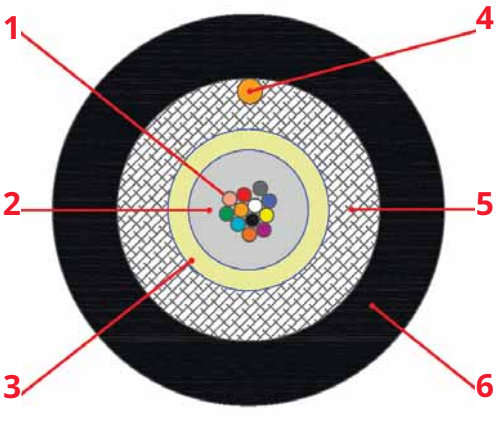
	2x8 FO; 2x12 FO			2x16 FO; 2x24 FO		
NESC [2]	Light	Medium	Heavy	Light	Medium	Heavy
Mounting sag,%	1,2			2		
Span, m (ft)	110 (360)	90 (295)	70 (230)	85 (279)	80 (262)	70 (230)
Sag(max),m	3,28	4,03	3,81	2,60	3,68	3,95
Load, N (lbs)	753 (169)	1201 (270)	1579 (355)	618 (139)	1110 (250)	1581 (355)

		A20TAE	A20TEE	A20TJE	A20TNE
Fiber Count (x)		16	24	32	48
Central tube diameter	mm (in)	2,0±0,2 (0,08)		2,5±0,2 (0,10	
Size	mm (in)	8,0x3,4 (0,31x0,13)		10,0x4,5 (0,39x0,18)	
Cable weight	(±5%), kg/km (lbs/kft)	30 (26,2)		48 (32,2)	
Max. tensile load	Installation, N (lbs)	2000 (450)			
	Operational, N (lbs)	800 (180)		1000 (225)	
Crush resistance, N/10 cm		3500			
Cable modulus of elasticity,	N/mm²	3954		4418	
Effective cable area, mm²		43,1		55,2	
Thermal expansion coefficient, °C⁻¹		1,57E-05		1,47E-05	
Min. bending radius		70 mm		100 mm	

[1] - There are other types of fibers available for this cable according to the customer's request.

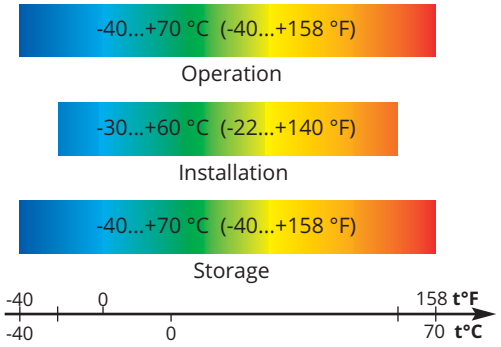
[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-D(ZN-RGY)2Y xE 0,8/1,5kN



- Aerial, self-support
- Outdoor
- UV resistant
- Rodent protection
- Cable duct
- All-dielectric

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), μm	125
	Coating Diameter	(±5), μm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Water blocking element		Thixotropic filling compound (gel)
3	Loose Tube		Polybutylene terephthalate (PBT)
4	Ripcord		Polyester yarn
5	Tensile strength elements		Glass yarn
6	Outer jacket		Polyethylene (HDPE), black, UV-resistance



	02-08 FO			12-16 FO			24 FO		
NESC [2]	Light	Medium	Heavy	Light	Medium	Heavy	Light	Medium	Heavy
Mounting sag,%	0,6			0,7			0,7		
Span, m (ft)	80 (262)	50 (164)	40 (131)	80 (262)	50 (164)	40 (131)	70 (230)	50 (164)	40 (131)
Sag(max),m	2,00	1,91	1,95	2,08	1,91	1,95	1,72	1,86	1,91
Load, N (lbs)	757 (170)	812 (183)	1029 (231)	790 (178)	831 (187)	1047 (235)	792 (178)	879 (198)	1085 (244)

		U15T2S	U15T3S	U15T4S	U15T5S	U15T7S	U15TAS	U15TES
Fiber count (x)		2	4	6	8	12	16	24
Central tube diameter	mm (in)	2,5±0,2 (0,10)		3,0±0,2 (0,12)			3,5±0,2 (0,14)	
Cable diameter	mm (in)	6,0±0,4 (0,24)		6,2±0,4 (0,24)			6,8±0,4 (0,27)	
Outer sheath thickness	mm (in)	1,0±0,2 (0,04)				1,1±0,2 (0,04)		
Cable weight	(±5%), kg/km (lbs/kft)	30 (20,2)		32 (21,5)		38 (25,5)		
Max. Tension	Installation, N (lbs)	1500 (337)						
	Operational, N (lbs)	800 (180)						
Crush resistance, N/10 cm		2000						
Cable modulus of elasticity, N/mm²		4825		4743		4026		3487
Effective cable area, mm²		22,2		22,8		27,4		32,2
Thermal expansion coefficient, °C⁻¹		1,36E-05		1,41E-05		1,60E-05		1,79E-05
Min. bending radius		10 x ø cable						

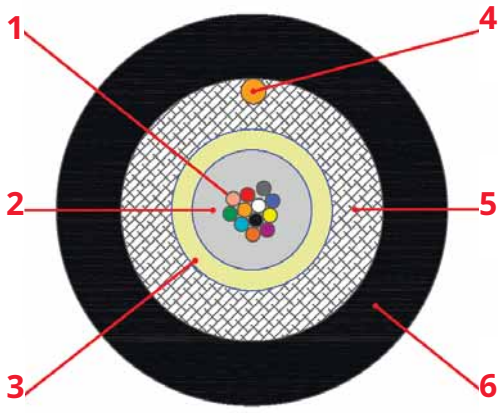
[1] - There are other types of fibers available for this cable according to the customer's request.

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A/J-B(ZN-RGY)H xE 0,8/1,5kN

ID:U16TxH

- Aerial, self-support
- Outdoor
- Indoor
- Flame resistant
- Rodent protection
- Cable duct



-20...+70 °C (-4...+158 °F)
Operation

-10...+60 °C (14...+140 °F)
Installation

-35...+70 °C (-31...+158 °F)
Storage

-31 0 158 t°F
-35 0 70 t°C

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), μm	125
	Coating Diameter	(±5), μm	242
	Attenuation	(λ= 1310 nm), dB/km	≤ 0,32
		(λ= 1550 nm), dB/km	≤ 0,22
2	Water blocking element		Water blocking yarn
3	Loose Tube		PBT, Gel-free
4	Ripcord		Polyester yarn
5	Tensile strength elements		Glass yarn
6	Outer jacket		Thermoplastic LSZH, black, UV-resistance

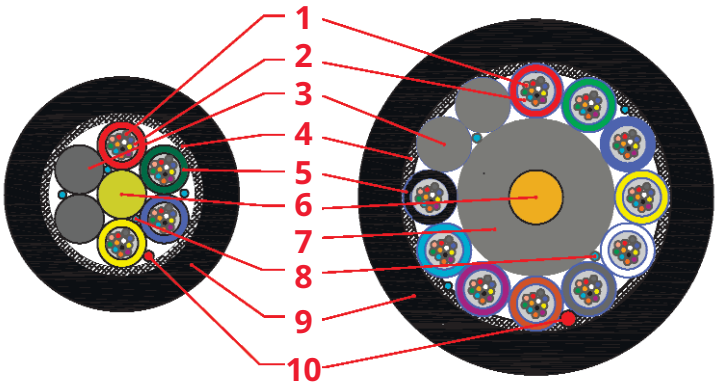
	02-08 FO			12-16 FO			24 FO		
NESC [2]	Light	Medium	Heavy	Light	Medium	Heavy	Light	Medium	Heavy
Mounting sag,%	0,8			0,8			0,9		
Span, m (ft)	80 (262)	50 (164)	40 (131)	80 (262)	50 (164)	40 (131)	80 (262)	50 (164)	40 (131)
Sag(max), m	2,09	1,95	1,97	1,73	1,89	1,93	1,77	1,89	1,93
Load, N (lbs)	742 (167)	808 (182)	1026 (231)	751 (169)	856 (192)	1064 (239)	792 (178)	883 (198)	1087 (244)

		U16T2H	U16T3H	U16T4H	U16T5H	U16T7H	U16TAH	U16TEH
Fiber count (x)		2	4	6	8	12	16	24
Central tube diameter	mm (in)	2,0±0,2 (0,08)		2,5±0,2 (0,10)			3,0±0,2 (0,12)	
Cable diameter	mm (in)	5,6±0,3 (0,22)		6,0±0,3 (0,24)			6,4±0,3 (0,25)	
Outer sheath thickness	mm (in)	1,2±0,15 (0,05)						
Cable weight	(±5%), kg/km (lbs/kft)	38 (25,5)		43 (28,9)			38 (25,5)	
Max. Tension	Installation, N (lbs)	1500 (337)						
	Operational, N (lbs)	800 (180)						
Crush resistance, N/10 cm		2000						
Cable modulus of elasticity, N/mm²		4825		4743		4026		3487
Effective cable area, mm²		22,2		22,8		27,4		32,2
Thermal expansion coefficient, °C⁻¹		1,36E-05		1,41E-05		1,60E-05		1,79E-05
Min. bending radius		10 x ø cable						

[1] - There are other types of fibers available for this cable according to the customer's request.
[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

ID:U21PxK
ID:U28PxC

OPTICAL CABLE
A/J-BQ(ZN-RGY)H xTyE nkN



Aerial, self-support
Indoor
Outdoor
Cable duct
Rodent protection
Flame resistant

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), μm	125
	Coating Diameter	(±5), μm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Water blocking element		Water blocking yarn
3	Filler		Thermoplastic LSZH
4	Peripheral strength elements		Glass yarn
5	Loose Tube		PBT, Gel-free
6	Central strength member		FRP rod
7	FRP jacketing		Thermoplastic LSZH
8	Water blocking element		Water blocking yarn
9	Outer jacket		Thermoplastic LSZH, black, UV-resistance
10	Ripcord		Polyester yarn

-20...+70 °C (-4...+158 °F)
Operation

-10...+60 °C (14...+140 °F)
Installation

-35...+70 °C (-31...+158 °F)
Storage

-31 0 158 t°F
-35 0 70 t°C

SPAN (NESC [2])			Fiber Count	Maximum Tensile Loading			Tube diameter	Design (x*y) tubes*fibers; fillers	Cable diameter	Cable weight	UTEX Code
Light	Medium	Heavy	(x)	Installation (n)	Operational	Sag	mm (in)		mm (in)	kg/km (lbs/kft)	
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%					
70 (230)	50 (164)	40 (131)	**12**	2000 (450)	1000 (225)	1,2	1,8 (0,07)	3*4; 3	8,6 (0,34)	82 (55)	U21P9K
70 (230)	50 (164)	40 (131)	**24**	2000 (450)	1000 (225)	1,2	1,8 (0,07)	6*4; 0	8,6 (0,34)	80 (54)	U21PHK
70 (230)	50 (164)	40 (131)	**24**	2000 (450)	1000 (225)	1,2	2,0 (0,08)	2*12; 4	9,2 (0,36)	94 (63)	U21PEK
70 (230)	50 (164)	40 (131)	**36**	2000 (450)	1000 (225)	1,2	2,0 (0,08)	3*12; 3	9,2 (0,36)	93 (62)	U21PKK
70 (230)	50 (164)	40 (131)	**48**	2000 (450)	1200 (270)	1,2	2,0 (0,08)	4*12; 3	9,2 (0,36)	92 (62)	U21PNK
70 (230)	50 (164)	40 (131)	**72**	2000 (450)	1200 (270)	1,2	2,0 (0,08)	6*12; 0	9,2 (0,36)	90 (60)	U21PRK
80 (262)	60 (197)	40 (131)	**96**	2000 (450)	1200 (270)	1,3	2,0 (0,08)	8*12; 0	10,5 (0,41)	116 (78)	U21PTK
80 (262)	60 (197)	40 (131)	**144**	2000 (450)	1200 (270)	1,4	2,0 (0,08)	12*12; 0	13,0 (0,51)	176 (118)	U21PXK
100 (328)	90 (295)	70 (230)	**12**	2700 (607)	1500 (337)	1,4	1,8 (0,07)	3*4; 3	9,0 (0,35)	91 (61)	U28P9C
100 (328)	90 (295)	70 (230)	**24**	2700 (607)	1500 (337)	1,4	1,8 (0,07)	6*4; 0	9,0 (0,35)	91 (61)	U28PHC
100 (328)	90 (295)	70 (230)	**24**	2700 (607)	1500 (337)	1,4	2,0 (0,08)	2*12; 4	9,2 (0,36)	98 (66)	U28PEC
100 (328)	90 (295)	70 (230)	**36**	2700 (607)	1500 (337)	1,4	2,0 (0,08)	3*12; 3	9,2 (0,36)	96 (65)	U28PKC
100 (328)	90 (295)	70 (230)	**48**	2700 (607)	1500 (337)	1,4	2,0 (0,08)	4*12; 3	9,2 (0,36)	95 (64)	U28PNC
100 (328)	90 (295)	70 (230)	**72**	2700 (607)	1500 (337)	1,4	2,0 (0,08)	6*12; 0	9,2 (0,36)	95 (64)	U28PRC
100 (328)	90 (295)	70 (230)	**96**	2700 (607)	1500 (337)	1,5	2,0 (0,08)	8*12; 0	10,5 (0,41)	121 (81)	U28PTC
100 (328)	90 (295)	70 (230)	**144**	2700 (607)	1500 (337)	1,6	2,0 (0,08)	12*12; 0	13,0 (0,51)	181 (122)	U28PXC

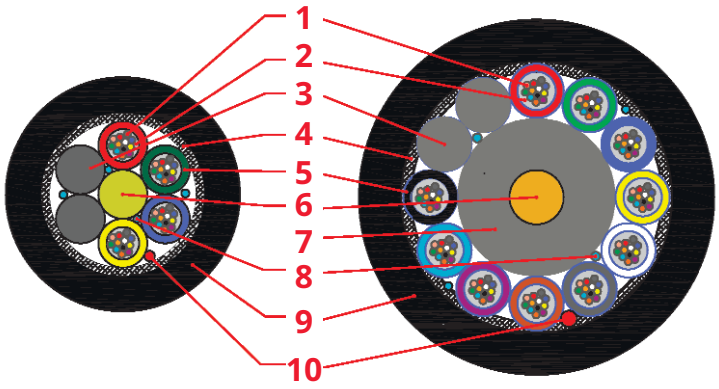
Crush resistance — 2500 N/10 cm ; Min. bending radius — 20 x Ø cable

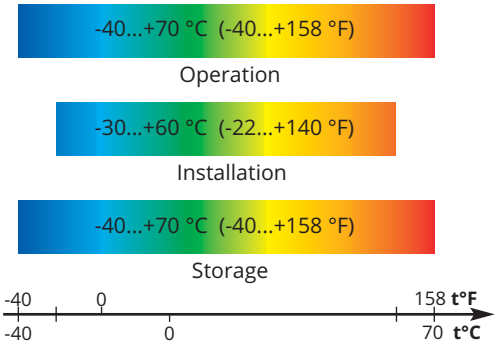
[1] - There are other types of fibers available for this cable according to the customer's request.
[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-DQ(ZN-RGY)2Y xTyE nkN

ID:U20PxJ

- Aerial, self-support
- Outdoor
- Cable duct
- UV resistant
- Rodent protection
- All-dielectric





1	Optical fiber		**Single-mode Rec. ITU-T G.652.D (default[1])**
	Cladding Diameter	(±0,7), μm	125
	Coating Diameter	(±5), μm	242
	Attenuation	(λ= 1310 nm), dB/km	≤ 0,32
	Attenuation	(λ= 1550 nm), dB/km	≤ 0,22
2	Water blocking element		Thixotropic filling compound (gel)
3	Filler		Polyethylene (HDPE)
4	Peripheral strength elements		Glass yarn
5	Loose Tube		Polybutylene terephthalate (PBT)
6	Central strength member		FRP rod
7	FRP jacketing		Polyethylene (HDPE)
8	Water blocking element		Water blocking yarn
9	Outer jacket		Polyethylene (HDPE), black, UV-resistance
10	Ripcord		Polyester yarn

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Design (x*y) tubes*fibers; fillers	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag					
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%					
80 (262)	50 (164)	40 (131)	**12**	2000 (450)	1000 (225)	1,0	1,8 (0,07)	3*4; 3	8,6 (0,34)	59 (40)	U20P9J
80 (262)	50 (164)	40 (131)	**24**	2000 (450)	1000 (225)	1,0	1,8 (0,07)	6*4; 0	8,6 (0,34)	61 (41)	U20PHJ
80 (262)	50 (164)	40 (131)	**24**	2000 (450)	1000 (225)	1,0	2,0 (0,08)	2*12; 4	9,2 (0,36)	67 (45)	U20PEJ
80 (262)	50 (164)	40 (131)	**36**	2000 (450)	1000 (225)	1,0	2,0 (0,08)	3*12; 3	9,2 (0,36)	67 (45)	U20PKJ
80 (262)	50 (164)	40 (131)	**48**	2000 (450)	1200 (270)	1,0	2,0 (0,08)	4*12; 3	9,2 (0,36)	68 (46)	U20PNJ
80 (262)	50 (164)	40 (131)	**72**	2000 (450)	1200 (270)	1,0	2,0 (0,08)	6*12; 0	9,2 (0,36)	70 (47)	U20PRJ
80 (262)	60 (197)	40 (131)	**96**	2000 (450)	1200 (270)	1,0	2,0 (0,08)	8*12; 0	10,5 (0,41)	91 (61)	U20PTJ
80 (262)	60 (197)	50 (164)	**144**	2000 (450)	1200 (270)	1,1	2,0 (0,08)	12*12; 0	13,0 (0,51)	133 (89)	U20PXJ

[1] - There are other types of fibers available for this cable according to the customer's request.

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-DQ(ZN-RGY)2Y xTyE nkN

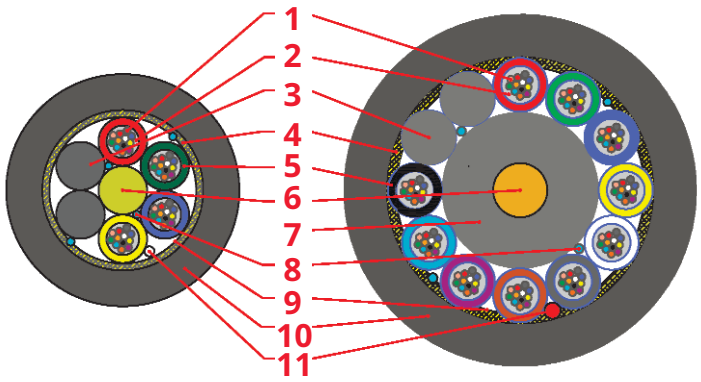
SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Design (x*y) tubes*fibers; fillers	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag					
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%					
110 (361)	90 (295)	70 (230)	**8**	2700 (607)	1500 (337)	1,3	1,8 (0,07)	2*4; 4	9,0 (0,35)	67 (45)	U27P6B
110 (361)	90 (295)	70 (230)	**12**	2700 (607)	1500 (337)	1,3	1,8 (0,07)	3*4; 3	9,0 (0,35)	67 (45)	U27P9B
110 (361)	90 (295)	70 (230)	**16**	2700 (607)	1500 (337)	1,3	1,8 (0,07)	4*4; 2	9,0 (0,35)	68 (46)	U27PBB
110 (361)	90 (295)	70 (230)	**24**	2700 (607)	1500 (337)	1,3	2,0 (0,08)	2*12; 4	9,2 (0,36)	72 (48)	U27PEB
110 (361)	90 (295)	70 (230)	**36**	2700 (607)	1500 (337)	1,3	2,0 (0,08)	3*12; 3	9,2 (0,36)	73 (49)	U27PKB
110 (361)	90 (295)	70 (230)	**48**	2700 (607)	1500 (337)	1,3	2,0 (0,08)	4*12; 3	9,2 (0,36)	73 (49)	U27PNB
110 (361)	90 (295)	70 (230)	**72**	2700 (607)	1500 (337)	1,3	2,0 (0,08)	6*12; 0	9,2 (0,36)	76 (51)	U27PRB
110 (361)	90 (295)	70 (230)	**96**	2700 (607)	1800 (405)	1,4	2,0 (0,08)	8*12; 0	10,5 (0,41)	95 (64)	U27PTB
110 (361)	90 (295)	70 (230)	**144**	2700 (607)	2000 (450)	1,5	2,0 (0,08)	12*12 0	13,0 (0,51)	138 (93)	U27PXB

SPAN (NESC [2])			Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Design (x*y) tubes*fibers; fillers	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
Light	Medium	Heavy		Installation (n)	Operational	Sag					
m (ft)	m (ft)	m (ft)		N (lbs)	N (lbs)	%					
140 (459)	110 (361)	90 (295)	**12**	3500 (787)	1800 (405)	1,5	2,0 (0,08)	2*6; 4	10,0 (0,39)	83 (56)	U35P8D
140 (459)	110 (361)	90 (295)	**12**	3500 (787)	1800 (405)	1,5	2,0 (0,08)	1*12; 5	10,0 (0,39)	83 (56)	U35P7D
140 (459)	110 (361)	90 (295)	**24**	3500 (787)	1800 (405)	1,5	2,0 (0,08)	6*4; 0	10,0 (0,39)	85 (57)	U35PHD
140 (459)	110 (361)	90 (295)	**24**	3500 (787)	1800 (405)	1,5	2,0 (0,08)	2*12; 4	10,0 (0,39)	84 (56)	U35PED
140 (459)	110 (361)	90 (295)	**36**	3500 (787)	2000 (450)	1,5	2,0 (0,08)	3*12; 3	10,0 (0,39)	85 (57)	U35PKD
140 (459)	110 (361)	90 (295)	**48**	3500 (787)	2000 (450)	1,5	2,0 (0,08)	4*12; 3	10,0 (0,39)	85 (57)	U35PND
140 (459)	110 (361)	90 (295)	**72**	3500 (787)	2000 (450)	1,5	2,0 (0,08)	6*12; 0	10,0 (0,39)	87 (58)	U35PRD
140 (459)	110 (361)	90 (295)	**96**	3500 (787)	2000 (450)	1,5	2,0 (0,08)	8*12; 0	11,0 (0,43)	102 (69)	U35PTD
150 (492)	120 (394)	90 (295)	**144**	3500 (787)	2000 (450)	1,5	2,0 (0,08)	12*12; 0	13,5 (0,53)	148 (99)	U35PXD

Crush resistance — 2500 N/10 cm;
Min. bending radius — 20 x Ø cable

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-DQ(ZN-AY)2Y xTyE nkN



ASDD, Long Span

Outdoor

UV resistant

-40...+70 °C (-40...+158 °F)
Operation

-30...+60 °C (-22...+140 °F)
Installation

-40...+70 °C (-40...+158 °F)
Storage

-40 0 158 t°F
-40 0 70 t°C

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Water blocking element		Thixotropic filling compound (gel)
3	Filler		Polyethylene (HDPE)
4	Peripheral strength elements		Aramid yarn
5	Loose Tube		Polybutylene terephthalate (PBT)
6	Central strength member		FRP rod
7	FRP jacketing		Polyethylene (HDPE)
8	Water blocking element		Water blocking yarn
9	Fixing element		Polyester yarn
10	Outer jacket		Polyethylene (HDPE), black, UV-resistance
11	Ripcord		Polyester yarn

ADSS Long Span, Single jacket, NESC [2] Light

SPAN m (ft)	Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
		Installation (n) N (lbs)	Operational N (lbs)	Initial sag %				
up to 100 (328)	**12-72**	2000 (450)	1300 (292)	1,5	2,0 (0,08)	9,5 (0,37)	74 (50)	U300LxB
up to 180 (600)	**12-72**	4700 (1057)	1500 (337)	1,5	2,0 (0,08)	11,0 (0,43)	98 (66)	U600LxB
210 (700)	**12-72**	4700 (1057)	1700 (382)	1,5	2,0 (0,08)	11,0 (0,43)	98 (66)	U700LxB
230 (800)	**12-72**	5200 (1169)	1900 (427)	1,5	2,0 (0,08)	11,2 (0,44)	101 (68)	U800LxB
270 (900)	**12-72**	5700 (1281)	2000 (450)	1,5	2,0 (0,08)	11,5 (0,45)	104 (70)	U900LxB
300 (1000)	**12-72**	6300 (1416)	2100 (472)	1,5	2,0 (0,08)	11,7 (0,46)	107 (72)	U1000LxB
330 (1100)	**12-72**	6800 (1529)	2200 (495)	1,5	2,0 (0,08)	12,0 (0,47)	110 (74)	U1100LxB
365 (1200)	**12-72**	7500 (1686)	2400 (540)	1,5	2,0 (0,08)	12,2 (0,48)	113 (76)	U1200LxB
up to 180 (600)	**96**	4600 (1034)	1500 (337)	1,5	2,0 (0,08)	11,0 (0,43)	95 (64)	U600LTB
210 (700)	**96**	5200 (1169)	2000 (450)	1,5	2,0 (0,08)	11,0 (0,43)	97 (65)	U700LTB
230 (800)	**96**	5700 (1281)	2200 (495)	1,5	2,0 (0,08)	11,2 (0,44)	98 (66)	U800LTB
270 (900)	**96**	6500 (1461)	2500 (562)	1,5	2,0 (0,08)	11,4 (0,45)	100 (67)	U900LTB
300 (1000)	**96**	7500 (1686)	3000 (674)	1,5	2,0 (0,08)	11,8 (0,46)	106 (71)	U1000LTB
330 (1100)	**96**	8500 (1911)	3400 (764)	1,5	2,0 (0,08)	12,0 (0,47)	108 (73)	U1100LTB
365 (1200)	**96**	9500 (2136)	3800 (854)	1,5	2,0 (0,08)	12,4 (0,49)	113 (76)	U1200LTB
up to 120 (400)	**144**	4500 (1012)	1800 (405)	1,5	2,0 (0,08)	13,6 (0,54)	145 (97)	U400LXB
150 (500)	**144**	5000 (1124)	2000 (450)	1,5	2,0 (0,08)	13,7 (0,54)	147 (99)	U500LXB
180 (600)	**144**	5700 (1281)	2300 (517)	1,5	2,0 (0,08)	13,8 (0,54)	148 (99)	U600LXB
210 (700)	**144**	7200 (1619)	2600 (585)	1,5	2,0 (0,08)	14,2 (0,56)	153 (103)	U700LXB
230 (800)	**144**	7800 (1754)	3200 (719)	1,5	2,0 (0,08)	14,4 (0,57)	157 (106)	U800LXB
270 (900)	**144**	8800 (1978)	3500 (787)	1,5	2,0 (0,08)	14,6 (0,58)	160 (108)	U900LXB
300 (1000)	**144**	9800 (2203)	4000 (899)	1,5	2,0 (0,08)	14,9 (0,59)	165 (111)	U1000LXB
365 (1200)	**144**	10700 (2405)	4300 (967)	1,5	2,0 (0,08)	15,1 (0,59)	168 (113)	U1200LXB

[1] - There are other types of fibers available for this cable according to the customer's request.
[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-D(ZN-RGY)2Y xE 0,8/1,5kN

ADSS Long Span, Single jacket, NESC [2] Medium

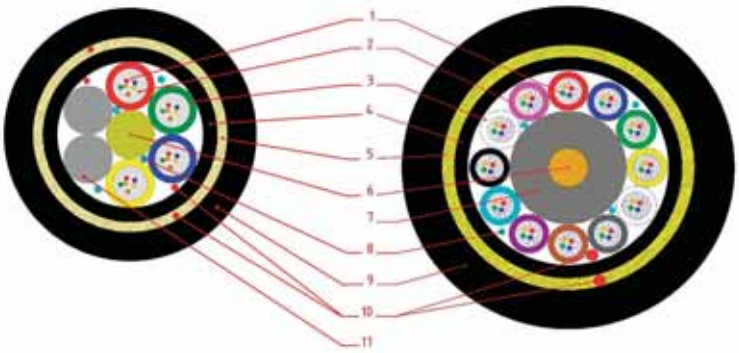
SPAN m (ft)	Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
		Installation (n)	Operational	Initial sag				
		N (lbs)	N (lbs)	%				
up to 150 (500)	**12-72**	4700 (1057)	2000 (450)	1,5	2,0 (0,08)	10,2 (0,40)	82 (55)	U500MxB
up to 180 (600)	**12-72**	5000 (1124)	2100 (472)	1,5	2,0 (0,08)	10,2 (0,40)	83 (56)	U600MxB
210 (700)	**12-72**	6000 (1349)	2500 (562)	1,5	2,0 (0,08)	10,5 (0,41)	87 (58)	U700MxB
230 (800)	**12-72**	7000 (1574)	3000 (674)	1,5	2,0 (0,08)	10,9 (0,43)	91 (61)	U800MxB
270 (900)	**12-72**	8000 (1798)	3400 (764)	1,5	2,0 (0,08)	11,2 (0,44)	95 (64)	U900MxB
300 (1000)	**12-72**	9200 (2068)	3900 (877)	1,5	2,0 (0,08)	11,6 (0,46)	100 (67)	U1000MxB
330 (1100)	**12-72**	10400 (2338)	4400 (989)	1,5	2,0 (0,08)	12,0 (0,47)	105 (71)	U1100MxB
365 (1200)	**12-72**	11700 (2630)	4800 (1079)	1,5	2,0 (0,08)	12,2 (0,48)	108 (73)	U1200MxB
up to 150 (500)	**96**	4600 (1034)	2200 (495)	1,5	2,0 (0,08)	11,2 (0,44)	99 (67)	U500MTB
up to 180 (600)	**96**	5600 (1259)	2700 (607)	1,5	2,0 (0,08)	11,4 (0,45)	103 (69)	U600MTB
210 (700)	**96**	6700 (1506)	3200 (719)	1,5	2,0 (0,08)	11,6 (0,46)	106 (71)	U700MTB
230 (800)	**96**	7800 (1754)	3700 (832)	1,5	2,0 (0,08)	12,0 (0,47)	110 (74)	U800MTB
270 (900)	**96**	8600 (1933)	4200 (944)	1,5	2,0 (0,08)	12,2 (0,48)	113 (76)	U900MTB
300 (1000)	**96**	9800 (2203)	4800 (1079)	1,5	2,0 (0,08)	12,5 (0,49)	117 (79)	U1000MTB
330 (1100)	**96**	11200 (2518)	5400 (1214)	1,5	2,0 (0,08)	12,9 (0,51)	123 (83)	U1100MTB
up to 120 (400)	**144**	4700 (1057)	2500 (562)	1,5	2,0 (0,08)	13,3 (0,52)	141 (95)	U400MXB
150 (500)	**144**	5800 (1304)	3200 (719)	1,5	2,0 (0,08)	13,5 (0,53)	144 (97)	U500MXB
180 (600)	**144**	7000 (1574)	3800 (854)	1,5	2,0 (0,08)	13,7 (0,54)	146 (98)	U600MXB
210 (700)	**144**	8200 (1843)	4500 (1012)	1,5	2,0 (0,08)	14,0 (0,55)	151 (101)	U700MXB
230 (800)	**144**	9200 (2068)	4800 (1079)	1,5	2,0 (0,08)	14,1 (0,56)	153 (103)	U800MXB
270 (900)	**144**	10700 (2405)	6000 (1349)	1,5	2,0 (0,08)	14,4 (0,57)	157 (106)	U900MXB
300 (1000)	**144**	12100 (2720)	6800 (1529)	1,5	2,0 (0,08)	14,7 (0,58)	162 (109)	U1000MXB
330 (1100)	**144**	13500 (3035)	7500 (1686)	1,5	2,0 (0,08)	14,9 (0,59)	165 (111)	U1100MXB

ADSS Long Span, Single jacket, NESC [2] Heavy

SPAN m (ft)	Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
		Installation (n)	Operational	Initial sag				
		N (lbs)	N (lbs)	%				
100 (330)	**12-72**	4800 (1079)	2000 (450)	1,5	2,0 (0,08)	10,2 (0,40)	83 (56)	U330HxB
105 (350)	**12-72**	5000 (1124)	2100 (472)	1,5	2,0 (0,08)	10,2 (0,40)	83 (56)	U350HxB
120 (400)	**12-72**	5700 (1281)	2500 (562)	1,5	2,0 (0,08)	10,5 (0,41)	87 (58)	U400HxB
137 (450)	**12-72**	6300 (1416)	2700 (607)	1,5	2,0 (0,08)	10,7 (0,42)	90 (60)	U450HxB
150 (500)	**12-72**	7000 (1574)	3000 (674)	1,5	2,0 (0,08)	10,9 (0,43)	92 (62)	U500HxB
167 (550)	**12-72**	7800 (1754)	3400 (764)	1,5	2,0 (0,08)	11,2 (0,44)	95 (64)	U550HxB
180 (600)	**12-72**	8500 (1911)	3700 (832)	1,5	2,0 (0,08)	11,5 (0,45)	99 (67)	U600HxB
210 (700)	**12-72**	10000 (2248)	4300 (967)	1,5	2,0 (0,08)	12,0 (0,47)	104 (70)	U700HxB
up to 75 (250)	**96**	4700 (1057)	2200 (495)	1,5	2,0 (0,08)	11,0 (0,43)	99 (67)	U250HTB
90 (300)	**96**	5200 (1169)	2400 (540)	1,5	2,0 (0,08)	11,2 (0,44)	100 (67)	U300HTB
105 (350)	**96**	6300 (1416)	3000 (674)	1,5	2,0 (0,08)	11,6 (0,46)	105 (71)	U350HTB
120 (400)	**96**	7000 (1574)	3200 (719)	1,5	2,0 (0,08)	11,6 (0,46)	106 (71)	U400HTB
137 (450)	**96**	7700 (1731)	3700 (832)	1,5	2,0 (0,08)	12,0 (0,47)	110 (74)	U450HTB
167 (550)	**96**	8700 (1956)	4200 (944)	1,5	2,0 (0,08)	12,2 (0,48)	113 (76)	U550HTB
180 (600)	**96**	9300 (2091)	4400 (989)	1,5	2,0 (0,08)	12,4 (0,49)	116 (78)	U600HTB
210 (700)	**96**	11000 (2473)	5200 (1169)	1,5	2,0 (0,08)	12,8 (0,50)	121 (81)	U700HTB
up to 75 (250)	**144**	4600 (1034)	2500 (562)	1,5	2,0 (0,08)	13,3 (0,52)	141 (95)	U250HXB
90 (300)	**144**	5500 (1236)	3000 (674)	1,5	2,0 (0,08)	13,3 (0,52)	142 (95)	U300HXB
105 (350)	**144**	6400 (1439)	3400 (764)	1,5	2,0 (0,08)	13,6 (0,54)	145 (97)	U350HXB
120 (400)	**144**	7300 (1641)	4000 (899)	1,5	2,0 (0,08)	13,8 (0,54)	148 (99)	U400HXB
137 (450)	**144**	8200 (1843)	4500 (1012)	1,5	2,0 (0,08)	14,0 (0,55)	151 (101)	U450HXB
150 (500)	**144**	9200 (2068)	5100 (1147)	1,5	2,0 (0,08)	14,1 (0,56)	152 (102)	U500HXB
167 (550)	**144**	10100 (2271)	5700 (1281)	1,5	2,0 (0,08)	14,3 (0,56)	155 (104)	U550HXB
180 (600)	**144**	11400 (2563)	6400 (1439)	1,5	2,0 (0,08)	14,5 (0,57)	159 (107)	U600HXB

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-DQ(ZN-AY)2Y2Y xTyE nkN



ASDD, Long Span

Outdoor

UV resistant

-40...+70 °C (-40...+158 °F)
Operation

-30...+60 °C (-22...+140 °F)
Installation

-40...+70 °C (-40...+158 °F)
Storage

-40 0 158 t°F
-40 0 70 t°C

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Water blocking element		Thixotropic filling compound (gel)
3	Loose Tube		Polybutylene terephthalate (PBT)
4	Inner Jacket		Polyethylene (HDPE)
5	Peripheral strength member		Aramid yarn
6	Central strength member		FRP rod
7	FRP jacketing		Polyethylene (HDPE)
8	Water blocking element		Water blocking yarn
9	Outer jacket		Polyethylene (HDPE), black, UV-resistance
10	Ripcord		Polyester yarn
11	Filler		Polyethylene (HDPE)

ADSS Long Span, Dual jacket, NESC [2] Heavy

SPAN m (ft)	Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
		Installation (n)	Operational	Initial sag				
		N (lbs)	N (lbs)	%				
up to 60 (200)	**12-72**	4500 (1012)	1300 (292)	1,5	2,0 (0,08)	13,5 (0,53)	145 (97)	U200HxA
120 (400)	**12-72**	5500 (1236)	1500 (337)	1,5	2,0 (0,08)	14,0 (0,55)	153 (103)	U400HxA
180 (600)	**12-72**	9200 (2068)	2300 (517)	1,5	2,0 (0,08)	14,5 (0,57)	161 (108)	U600HxA
230 (800)	**12-72**	12200 (2743)	3200 (719)	1,5	2,0 (0,08)	15,0 (0,59)	179 (120)	U800HxA
300 (1000)	**12-72**	15100 (3395)	4700 (1057)	1,5	2,0 (0,08)	15,8 (0,62)	200 (134)	U1000HxA
365 (1200)	**12-72**	18300 (4114)	6000 (1349)	1,5	2,0 (0,08)	16,8 (0,66)	215 (144)	U1200HxA
up to 60 (200)	**96**	4500 (1012)	1500 (337)	1,5	2,0 (0,08)	15,5 (0,61)	172 (116)	U200HTA
120 (400)	**96**	6500 (1461)	1600 (360)	1,5	2,0 (0,08)	15,5 (0,61)	176 (118)	U400HTA
180 (600)	**96**	9500 (2136)	1500 (337)	1,5	2,0 (0,08)	16,2 (0,64)	180 (121)	U600HTA
230 (800)	**96**	12300 (2765)	1800 (405)	1,5	2,0 (0,08)	16,7 (0,66)	185 (124)	U800HTA
300 (1000)	**96**	15500 (3485)	2000 (450)	1,5	2,0 (0,08)	17,2 (0,68)	192 (129)	U1000HTA
365 (1200)	**96**	18500 (4159)	2000 (450)	1,5	2,0 (0,08)	17,7 (0,70)	197 (132)	U1200HTA
490 (1600)	**96**	21500 (4833)	4300 (967)	1,5	2,0 (0,08)	18,3 (0,72)	213 (143)	U1600HTA
up to 60 (200)	**144**	4500 (1012)	1800 (405)	1,5	2,0 (0,08)	20,0 (0,79)	188 (126)	U200HXA
120 (400)	**144**	7800 (1754)	3000 (674)	1,5	2,0 (0,08)	20,2 (0,80)	198 (133)	U400HXA
180 (600)	**144**	12000 (2698)	3800 (854)	1,5	2,0 (0,08)	20,5 (0,81)	207 (139)	U600HXA
230 (800)	**144**	16000 (3597)	6300 (1416)	1,5	2,0 (0,08)	21,0 (0,83)	216 (145)	U800HXA
300 (1000)	**144**	20000 (4496)	7700 (1731)	1,5	2,0 (0,08)	21,4 (0,84)	227 (153)	U1000HXA
365 (1200)	**144**	24000 (5395)	9200 (2068)	1,5	2,0 (0,08)	22,3 (0,88)	238 (160)	U1200HXA
490 (1600)	**144**	28000 (6295)	12000 (2698)	1,5	2,0 (0,08)	23,0 (0,91)	250 (168)	U1600HXA

[1] - There are other types of fibers available for this cable according to the customer's request.
[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

OPTICAL CABLE
A-DQ(ZN-AY)2Y2Y xTyE nkN

ADSS Long Span, Dual jacket, NESC [2] Medium

SPAN m (ft)	Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
		Installation (n)	Operational	Initial sag				
		N (lbs)	N (lbs)	%				
up to 150 (500)	**12-72**	4500 (1012)	1300 (292)	1,5	2,0 (0,08)	13,0 (0,51)	137 (92)	U500MxA
180 (600)	**12-72**	5500 (1236)	1500 (337)	1,5	2,0 (0,08)	13,2 (0,52)	143 (96)	U600MxA
210 (700)	**12-72**	6500 (1461)	1700 (382)	1,5	2,0 (0,08)	13,5 (0,53)	148 (99)	U700MxA
230 (800)	**12-72**	7500 (1686)	1900 (427)	1,5	2,0 (0,08)	14,0 (0,55)	153 (103)	U800MxA
270 (900)	**12-72**	8500 (1911)	2000 (450)	1,5	2,0 (0,08)	14,2 (0,56)	159 (107)	U900MxA
300 (1000)	**12-72**	9500 (2136)	2100 (472)	1,5	2,0 (0,08)	14,0 (0,55)	165 (111)	U1000MxA
330 (1100)	**12-72**	10300 (2316)	2200 (495)	1,5	2,0 (0,08)	14,2 (0,56)	170 (114)	U1100MxA
365 (1200)	**12-72**	11500 (2585)	2400 (540)	1,5	2,0 (0,08)	14,5 (0,57)	176 (118)	U1200MxA
400 (1300)	**12-72**	12600 (2833)	2700 (607)	1,5	2,0 (0,08)	14,8 (0,58)	182 (122)	U1300MxA
430(1400)	**12-72**	13600 (3057)	3300 (742)	1,5	2,0 (0,08)	15,0 (0,59)	188 (126)	U1400MxA
460 (1500)	**12-72**	14600 (3282)	3800 (854)	1,5	2,0 (0,08)	15,2 (0,60)	195 (131)	U1500MxA
490 (1600)	**12-72**	15600 (3507)	4300 (967)	1,5	2,0 (0,08)	16,5 (0,65)	201 (135)	U1600MxA
600 (2000)	**12-72**	18500 (4159)	6500 (1461)	1,5	2,0 (0,08)	17,5 (0,69)	207 (139)	U2000MxA
up to 180 (600)	**96**	6000 (1349)	1500 (337)	1,5	2,0 (0,08)	15,5 (0,61)	172 (116)	U600MTA
210 (700)	**96**	7000 (1574)	1600 (360)	1,5	2,0 (0,08)	15,5 (0,61)	176 (118)	U700MTA
230 (800)	**96**	8000 (1798)	1500 (337)	1,5	2,0 (0,08)	15,7 (0,62)	180 (121)	U800MTA
270 (900)	**96**	9100 (2046)	1800 (405)	1,5	2,0 (0,08)	15,7 (0,62)	185 (124)	U900MTA
300 (1000)	**96**	10500 (2360)	2000 (450)	1,5	2,0 (0,08)	16,0 (0,63)	192 (129)	U1000MTA
330 (1100)	**96**	12000 (2698)	2000 (450)	1,5	2,0 (0,08)	16,0 (0,63)	197 (132)	U1100MTA
365 (1200)	**96**	13200 (2967)	2000 (450)	1,5	2,0 (0,08)	16,2 (0,64)	203 (136)	U1200MTA
490 (1600)	**96**	17000 (3822)	4300 (967)	1,5	2,0 (0,08)	17,5 (0,69)	213 (143)	U1600MTA
600 (2000)	**96**	14000 (3147)	6000 (1349)	1,5	2,0 (0,08)	18,5 (0,73)	245 (165)	U2000MTA
up to 120 (400)	**144**	5400 (1214)	1800 (405)	1,5	2,0 (0,08)	20,0 (0,79)	188 (126)	U400MXA
150 (500)	**144**	6500 (1461)	2000 (450)	1,5	2,0 (0,08)	20,1 (0,79)	193 (130)	U500MXA
180 (600)	**144**	7800 (1754)	2300 (517)	1,5	2,0 (0,08)	20,1 (0,79)	197 (132)	U600MXA
210 (700)	**144**	8800 (1978)	2600 (585)	1,5	2,0 (0,08)	20,3 (0,80)	203 (136)	U700MXA
230 (800)	**144**	10300 (2316)	3200 (719)	1,5	2,0 (0,08)	20,3 (0,80)	208 (140)	U800MXA
270 (900)	**144**	10000 (2248)	3500 (787)	1,5	2,0 (0,08)	20,5 (0,81)	213 (143)	U900MXA
300 (1000)	**144**	11800 (2653)	3700 (832)	1,5	2,0 (0,08)	20,8 (0,82)	219 (147)	U1000MXA
365 (1200)	**144**	14700 (3305)	4700 (1057)	1,5	2,0 (0,08)	21,5 (0,85)	231 (155)	U1200MXA
490 (1600)	**144**	17900 (4024)	6000 (1349)	1,5	2,0 (0,08)	22,1 (0,87)	256 (172)	U1600MXA
600 (2000)	**144**	21600 (4856)	7300 (1641)	1,5	2,0 (0,08)	22,7 (0,89)	281 (189)	U2000MXA

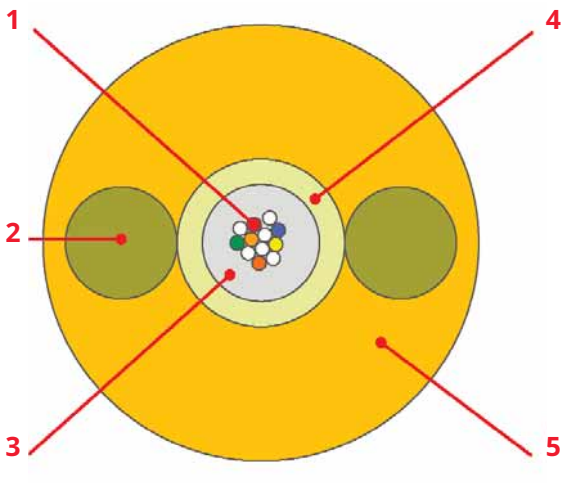
[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

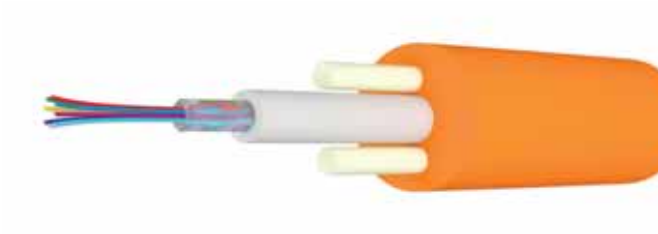
ADSS Long Span, Dual jacket, NESC [2] Light

SPAN m (ft)	Fiber Count (x)	Maximum Tensile Loading			Tube diameter mm (in)	Cable diameter mm (in)	Cable weight kg/km (lbs/kft)	UTEX Code
		Installation (n)	Operational	Initial sag				
		N (lbs)	N (lbs)	%				
up to 100 (328)	**12-72**	4500 (1012)	1300 (292)	1,5	2,0 (0,08)	13,0 (0,51)	130 (87)	U300LxA
180 (600)	**12-72**	5000 (1124)	1500 (337)	1,5	2,0 (0,08)	13,0 (0,51)	135 (91)	U600LxA
210 (700)	**12-72**	5500 (1236)	1700 (382)	1,5	2,0 (0,08)	13,0 (0,51)	140 (94)	U700LxA
230 (800)	**12-72**	6000 (1349)	1900 (427)	1,5	2,0 (0,08)	13,0 (0,51)	144 (97)	U800LxA
270 (900)	**12-72**	6500 (1461)	2000 (450)	1,5	2,0 (0,08)	13,0 (0,51)	149 (100)	U900LxA
300 (1000)	**12-72**	7000 (1574)	2100 (472)	1,5	2,0 (0,08)	14,0 (0,55)	153 (103)	U1000LxA
330 (1100)	**12-72**	7800 (1754)	2200 (495)	1,5	2,0 (0,08)	14,0 (0,55)	157 (106)	U1100LxA
365 (1200)	**12-72**	8500 (1911)	2400 (540)	1,5	2,0 (0,08)	14,0 (0,55)	160 (108)	U1200LxA
400 (1300)	**12-72**	9000 (2023)	2700 (607)	1,5	2,0 (0,08)	14,5 (0,57)	166 (112)	U1300LxA
430(1400)	**12-72**	9500 (2136)	3000 (674)	1,5	2,0 (0,08)	14,5 (0,57)	170 (114)	U1400LxA
460 (1500)	**12-72**	9900 (2226)	3200 (719)	1,5	2,0 (0,08)	15,0 (0,59)	173 (116)	U1500LxA
490 (1600)	**12-72**	10500 (2360)	3600 (809)	1,5	2,0 (0,08)	15,2 (0,60)	177 (119)	U1600LxA
600 (2000)	**12-72**	11000 (2473)	4000 (899)	1,5	2,0 (0,08)	15,5 (0,61)	181 (122)	U2000LxA
up to 180 (600)	**96**	4500 (1012)	1500 (337)	1,5	2,0 (0,08)	13,0 (0,51)	172 (116)	U600LTA
210 (700)	**96**	4800 (1079)	1600 (360)	1,5	2,0 (0,08)	13,0 (0,51)	176 (118)	U700LTA
230 (800)	**96**	5500 (1236)	1500 (337)	1,5	2,0 (0,08)	13,0 (0,51)	180 (121)	U800LTA
270 (900)	**96**	6500 (1461)	1800 (405)	1,5	2,0 (0,08)	13,0 (0,51)	185 (124)	U900LTA
300 (1000)	**96**	7500 (1686)	2000 (450)	1,5	2,0 (0,08)	13,0 (0,51)	192 (129)	U1000LTA
330 (1100)	**96**	9000 (2023)	2000 (450)	1,5	2,0 (0,08)	13,2 (0,52)	197 (132)	U1100LTA
365 (1200)	**96**	10000 (2248)	2000 (450)	1,5	2,0 (0,08)	13,2 (0,52)	203 (136)	U1200LTA
490 (1600)	**96**	12000 (2698)	4300 (967)	1,5	2,0 (0,08)	16,5 (0,65)	213 (143)	U1600LTA
600 (2000)	**96**	14000 (3147)	6000 (1349)	1,5	2,0 (0,08)	18,0 (0,71)	245 (165)	U2000LTA
up to 120 (400)	**144**	4500 (1012)	1800 (405)	1,5	2,0 (0,08)	20,0 (0,79)	220 (148)	U400LXA
150 (500)	**144**	5200 (1169)	2000 (450)	1,5	2,0 (0,08)	20,0 (0,79)	223 (150)	U500LXA
180 (600)	**144**	6500 (1461)	2300 (517)	1,5	2,0 (0,08)	20,0 (0,79)	225 (151)	U600LXA
210 (700)	**144**	7500 (1686)	2600 (585)	1,5	2,0 (0,08)	20,2 (0,80)	230 (155)	U700LXA
230 (800)	**144**	9000 (2023)	3200 (719)	1,5	2,0 (0,08)	20,2 (0,80)	235 (158)	U800LXA
270 (900)	**144**	10000 (2248)	3500 (787)	1,5	2,0 (0,08)	20,2 (0,80)	238 (160)	U900LXA
300 (1000)	**144**	11000 (2473)	3700 (832)	1,5	2,0 (0,08)	20,2 (0,80)	240 (161)	U1000LXA
365 (1200)	**144**	13500 (3035)	4700 (1057)	1,5	2,0 (0,08)	20,5 (0,81)	251 (169)	U1200LXA
490 (1600)	**144**	15700 (3530)	6000 (1349)	1,5	2,0 (0,08)	20,8 (0,82)	263 (177)	U1600LXA
600 (2000)	**144**	18200 (4092)	7300 (1641)	1,5	2,0 (0,08)	21,0 (0,83)	275 (185)	U2000LXA

[2] - NESC LIGHT: ice - 0mm; wind - 94.4km/h; extra load - 0.7N/m. NESC MEDIUM: ice - 6.5mm; wind - 62.8km/h; extra load - 2.5N/m. NESC HEAVY: ice - 12.5mm; wind - 62.8km/h; extra load - 4,4N/m.

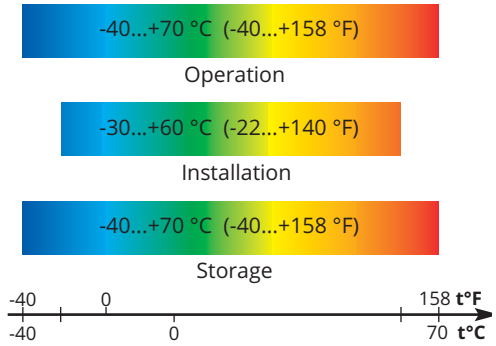
OPTICAL CABLE
A-D(ZN-2PGY)2Y xE 1,0kN





- UV resistant
- Easy strip
- Cable duct
- All-dielectric
- Direct buring

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Peripheral strength elements		FRP rod
3	Water blocking element		Thixotropic filling compound (gel)
4	Loose Tube		Polybutylene terephthalate (PBT)
5	Outer jacket		Polyethylene (HDPE), orange UV-resistance

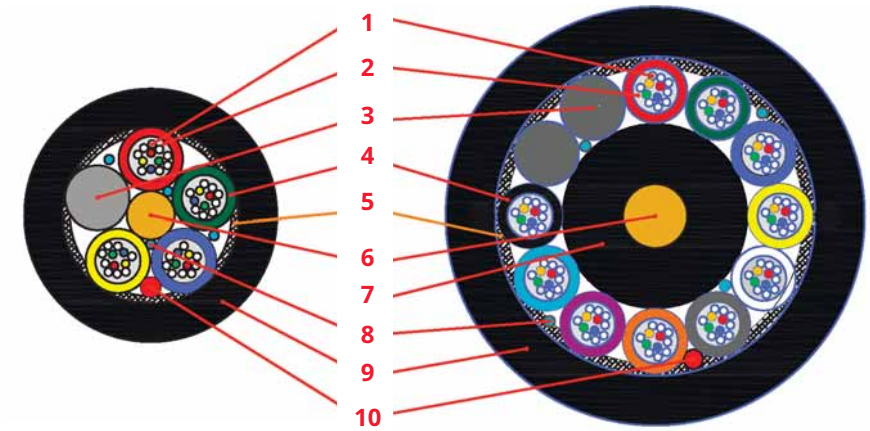


Fiber Count (x)		A10T1R	A10T2R	A10T3R	A10T5R	A10T7R
		1	2	4	8	12
Central tube diameter	mm (in)	1,8±0,2 (0,07)			2,5±0,2 (0,10)	
Cable diameter	mm (in)	5,0±0,3 (0,20)				
Cable weight	(±5%), kg/km (lbs/kft)	21,0 (14,1)				
Max. tensile load	Installation, N (lbs)	1000 (225)				
	Operational, N (lbs)	300 (67)				
Crush resistance,	N/10 cm	3000				
Min. bending radius		20 x Ø cable				

[1] - There are other types of fibers available for this cable according to the customer's request.

OPTICAL CABLE
A-DQ(ZN-GY)2Y xTyE 1,5kN

U15PxG



Cable duct

Direct burying

Outdoor

UV resistant

All-dielectric

-40...+70 °C (-40...+158 °F)
Operation

-30...+60 °C (-22...+140 °F)
Installation

-40...+70 °C (-40...+158 °F)
Storage

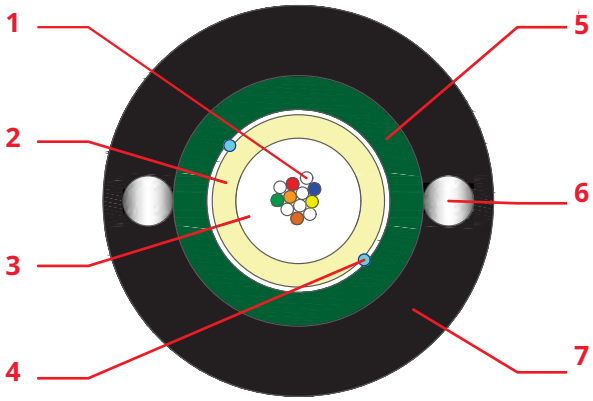
-40 0 158 t°F
-40 0 70 t°C

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/km	≤ 0,32
		(λ= 1550 nm), dB/km	≤ 0,22
2	Water blocking element		Thixotropic filling compound (gel)
3	Filler		Polyethylene (HDPE)
4	Loose Tube		Polybutylene terephthalate (PBT)
5	Peripheral strength elements		Glass yarn
6	Central strength member		FRP rod
7	FRP jacketing		Polyethylene (HDPE)
8	Water blocking element		Water blocking yarn
9	Outer jacket		Polyethylene (HDPE), black, UV-resistance
10	Ripcord		Polyester yarn

		U15P8G	U15P7G	U15PAG	U15PGG	U15PEG	U15PNG	U15PRG	U15PTG	U15PXG
Fiber Count (x)*(y)		12		16	24		48	72	96	144
Design		2x6	1x12	2x8	4x6	2x12	4x12	6x12	8x12	12x12
Number of elements		5						6	8	12
Number of fillers		3	4	3	1	3	1	0		
Loose Tube diameter	mm (in)	2,0±0,2 (0,08)								
Cable diameter	mm (in)	8,0 (0,31)						9,0 (0,35)	10,5 (0,41)	13,0 (0,51)
Outer sheath thickness	mm (in)	1,2 (0,05)						1,4 (0,06)	1,5 (0,06)	
Cable weight	±5%), kg/km (lbs/kft)	49 (33,0)	50 (33,6)	49 (33,0)	50 (33,6)		51 (34,3)	67 (45,0)	87 (58,5)	133 (89,4)
Max. tensile load	Installation, kN	1500 (337)								
	Operational, kN	600 (135)						800 (180)	1000 (225)	
Crush resistance, N/10 cm		2500								
Cable modulus of elasticity, N/mm²		3292	3451	3292	3606	3447	3606	4228	2275	1630
Effective cable area, mm²		41	43	41	38	41	38	48	66	102
Thermal expansion coefficient, °C⁻¹		1,63E-05	1,59E-05	1,63E-05	1,49E-05	1,58E-05	1,49E-05	1,21E-05	2,70E-05	3,81E-05
Min. bending radius		20 x Ø cable								

[1] - There are other types of fibers available for this cable according to the customer's request.

OPTICAL CABLE
A-DQ(ZM-SR)2Y xE nkN



Direct burying

Cable duct

Rodent protection

UV resistant

Outdoor

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Loose Tube		Polybutylene terephthalate (PBT)
3	Water blocking element		Thixotropic filling compound (gel)
4	Water blocking element		Water blocking yarn
5	Corrugated steel armour		Steel tape
6	Peripheral strength elements		Steel wire
7	Outer jacket		Polyethylene (HDPE), black UV resistance

-40...+70 °C (-40...+158 °F)
Operation

-30...+60 °C (-22...+140 °F)
Installation

-40...+70 °C (-40...+158 °F)
Storage

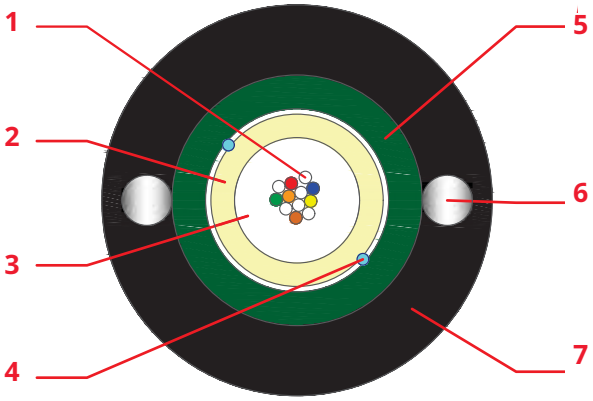
-40 0 158 t°F
-40 0 70 t°C

		G15T18	G15T28	G15T38	G15T58	G15T78	G15TA8	G15TE8	G27T1Q	G27T2Q	G27T3Q	G27T5Q	G27T7Q	G27TAQ	G27TEQ
Fiber Count (x)		**1**	**2**	**4**	**8**	**12**	**16**	**24**	**1**	**2**	**4**	**8**	**12**	**16**	**24**
Max. tension	Installation (n), N (lbs)	1500 (337)							2700 (607)						
	Operational, N (lbs)	800 (180)							1500 (337)						
Cable diameter	mm (in)	7,8±0,4 (0,31)							8,2±0,4 (0,32)						
Central tube diameter	mm (in)	2,5±0,2 (0,10)							2,5±0,2 (0,10)						
Cable weight	±5%, kg/km (lbs/kft)	69 (46,4)		70 (47,0)					79 (53,1)				80 (53,8)		
Crush resistance,	N/10 cm	3000													
Min. bending radius		20 x ø cable													

[1] - There are other types of fibers available for this cable according to the customer's request.

OPTICAL CABLE
A/J-BQ(ZM-SR)H xE nkN

ID:G15Tx9
ID:G27TxK



- Direct burying
- Indoor
- Cable duct
- UV resistant
- Rodent protection
- Flame resistant

-20...+70 °C (-4...+158 °F)
Operation

-10...+60 °C (14...+140 °F)
Installation

-35...+70 °C (-31...+158 °F)
Storage

-31 0 158 t°F
-35 0 70 t°C

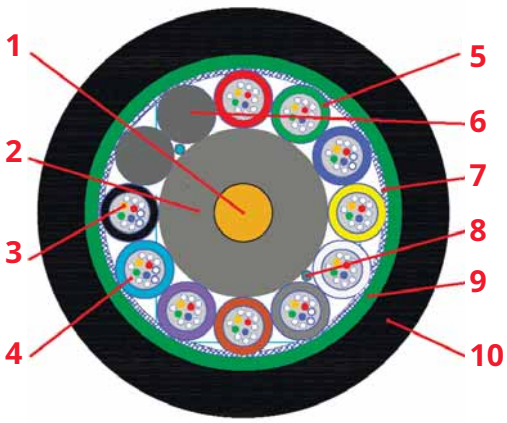
1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/км	≤ 0,32
		(λ= 1550 nm), dB/км	≤ 0,22
2	Loose Tube		PBT, Gel Free
3 4	Water blocking element		Water blocking yarn
5	Corrugated steel armour		Steel tape
6	Peripheral strength elements		Steel wire
7	Outer jacket		Thermoplastic LSZH, black, UV resistance

		G15T19	G15T29	G15T39	G15T59	G15T79	G15TA9	G15TE9	G27T1K	G27T2K	G27T3K	G27T5K	G27T7K	G27TAK	G27TEK
Fiber Count (x)		1	2	4	8	12	16	24	1	2	4	8	12	16	24
Max. tension	Installation (n), N (lbs)	1500 (337)							2700 (607)						
	Operational, N (lbs)	800 (180)							1500 (337)						
Cable diameter	mm (in)	7,8±0,4 (0,31)							8,2±0,4 (0,32)						
Central tube diameter	mm (in)	2,5±0,2 (0,10)							2,5±0,2 (0,10)						
Cable weight	±5%, kg/km (lbs/kft)	87 (58,5)		88 (59,1)					100 (67,2)						
Crush resistance,	N/10 cm	3000													
Min. bending radius		20 x ø cable													

[1] - There are other types of fibers available for this cable according to the customer's request.

ID: G15PxM
ID: G27Px6

OPTICAL CABLE
A-DQ(ZN-GYSR)2Y xTyE nkN



Direct burying

Outdoor

Cable duct

UV resistant

Rodent protection

1	Central strength member		FRP rod
2	FRP jacketing		Polyethylene (HDPE)
3	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), μm	125
	Coating Diameter	(±5), μm	242
	Attenuation	(λ= 1310 nm), dB/km	≤ 0,32
		(λ= 1550 nm), dB/km	≤ 0,22
4	Water blocking element		Thixotropic filling compound (gel)
5	Loose Tube		Polybutylene terephthalate (PBT)
6	Filler		Polyethylene (HDPE)
7	Peripheral strength elements		Glass yarn
8	Water blocking element		Water blocking yarn
9	Corrugated steel armour		Steel tape
10	Outer jacket		Polyethylene (HDPE), black, UV-resistance

-40...+70 °C (-40...+158 °F)
Operation

-30...+60 °C (-22...+140 °F)
Installation

-40...+70 °C (-40...+158 °F)
Storage

-40 0 158 t°F
-40 0 70 t°C

Fiber Count (x)*(y)	8	12		16	24			36	48	72	96	144
Design	2x4	2x6	3x4	4x4	4x6	6x4	2x12	3x12	4x12	6x12	8x12	12x12
Number of elements	6										8	12
Number of fillers	4		3	2		0	4	3	2	0		
Crush resistance, N/10 cm	3000											
Min. bending radius	20 x ø cable											

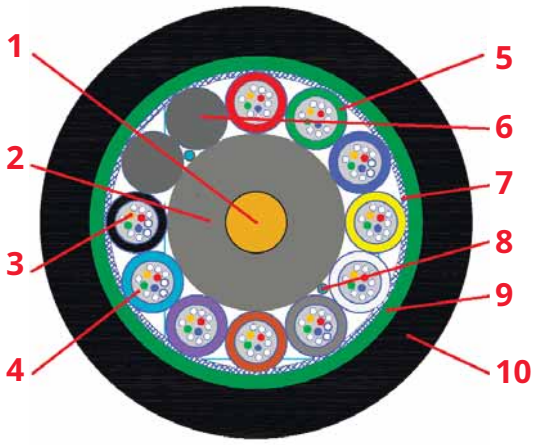
		G15P6M	G15P8M	G15P9M	G15PBM	G15PGM	G15PHM	G15PEM	G15PKM	G15PNM	G15PRM	G15PTM	G15PXM
Max. tension	**Installation(n)**, N (lbs)	**1500 (337)**										**1800 (405)**	**2000 (450)**
	Operational, N (lbs)	400 (90)										500 (112)	600 (135)
Loose Tube diameter, mm (in)		1,5±0,2 (0,06)											
Cable diameter mm (in)		9,2 (0,36)										10,4 (0,41)	12,0 (0,47)
Outer sheath thickness, mm (in)		1,5±0,3 (0,06)											
Cable weight ±5%, kg/km (lbs/kft)		108 (73)				107 (72)			108 (73)		107 (72)	130 (87)	171 (115)

		G27P66	G27P86	G27P96	G27PB6	G27PG6	G27PH6	G27PE6	G27PK6	G27PN6	G27PR6	G27PT6	G27PX6
Max. tension	**Installation(n)**, N (lbs)	**2700 (607)**											
	Operational, N (lbs)	1000 (225)											1200 (270)
Loose Tube diameter, mm (in)		1,8±0,2 (0,07)										2,0±0,2 (0,08)	
Cable diameter mm (in)		10,6 (0,42)										12,0 (0,47)	14,5 (0,57)
Outer sheath thickness, mm (in)		1,5±0,3 (0,06)											
Cable weight ±5%, kg/km (lbs/kft)		103 (69)			104 (70)				105 (71)		107 (72)	128 (86)	193 (130)

[1] - There are other types of fibers available for this cable according to the customer's request.

OPTICAL CABLE
A/J-BQ(ZN-GYSR)H xTyE nkN

ID:G15PxU
ID:G27Px7



Direct burying

Indoor

Cable duct

UV resistant

Rodent protection

Flame resistant

-20...+70 °C (-4...+158 °F)
Operation

-10...+60 °C (14...+140 °F)
Installation

-35...+70 °C (-31...+158 °F)
Storage

-31 0 158 t°F
-35 0 70 t°C

1	Central strength member		FRP rod
2	FRP jacketing		Thermoplastic LSZH
3	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), μm	125
	Coating Diameter	(±5), μm	242
	Attenuation	(λ= 1310 nm), dB/km	≤ 0,32
		(λ= 1550 nm), dB/km	≤ 0,22
4	Water blocking element		Water blocking yarn
5	Loose Tube		PBT, Gel Free
6	Filler		Thermoplastic LSZH
7	Peripheral strength elements		Glass yarn
8	Water blocking element		Water blocking yarn
9	Corrugated steel armour		Steel tape
10	Outer jacket		Thermoplastic LSZH, black, UV-resistance

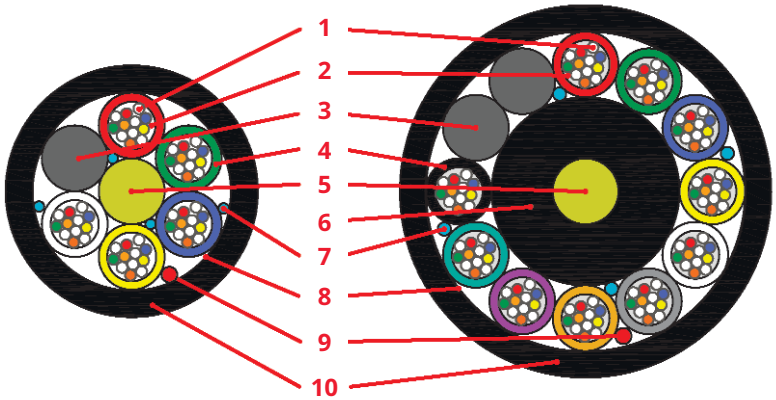
Fiber Count (x)*(y)	8	12		16	24			36	48	72	96	144
Design	2x4	2x6	3x4	4x4	4x6	6x4	2x12	3x12	4x12	6x12	8x12	12x12
Number of elements	6										8	12
Number of fillers	4		3	2		0	4	3	2	0		
Crush resistance, N/10 cm	3000											
Min. bending radius	20 x ø cable											

		G15P6U	G15P8U	G15P9U	G15PBU	G15PGU	G15PHU	G15PEU	G15PKU	G15PNU	G15PRU	G15PTU	G15PXU
Max. tension	**Installation(n)**, N (lbs)	**1500 (337)**										**1800 (405)**	**2000 (450)**
	Operational, N (lbs)	400 (90)										500 (112)	600 (135)
Loose Tube diameter, mm (in)		1,5±0,2 (0,06)											
Cable diameter mm (in)		9,2 (0,36)										10,4 (0,41)	12,0 (0,47)
Outer sheath thickness, mm (in)		1,5±0,3 (0,06)											
Cable weight ±5%, kg/km (lbs/kft)		108 (73)				107 (72)			108 (73)		107 (72)	130 (87)	171 (115)

		G27P67	G27P87	G27P97	G27PB7	G27PG7	G27PH7	G27PE7	G27PK7	G27PN7	G27PR7	G27PT7	G27PX7
Max. tension	**Installation(n)**, N (lbs)	**2700 (607)**											
	Operational, N (lbs)	1000 (225)											1200 (270)
Loose Tube diameter, mm (in)		1,8±0,2 (0,07)										2,0±0,2 (0,08)	
Cable diameter mm (in)		10,6 (0,42)										12,0 (0,47)	14,5 (0,57)
Outer sheath thickness, mm (in)		1,5±0,3 (0,06)											
Cable weight ±5%, kg/km (lbs/kft)		132 (89)			130 (87)				131 (88)		130 (87)	157 (105)	263 (177)

[1] - There are other types of fibers available for this cable according to the customer's request.

OPTICAL CABLE
Micro-A-DQ(ZN)2Y xTyE 1,0kN



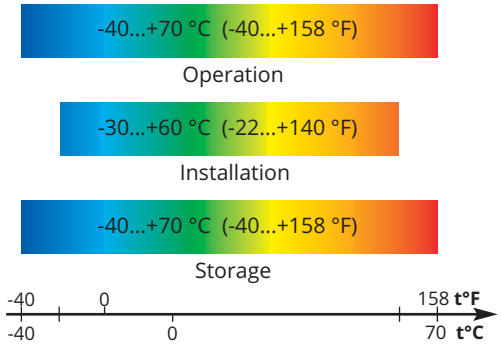
Blowing installation

UV resistant

All-dielectric

Outdoor

1	Optical fiber		**Single-mode Rec. ITU-T G.652.D** (default[1])
	Cladding Diameter	(±0,7), µm	125
	Coating Diameter	(±5), µm	242
	Attenuation	(λ= 1310 nm), dB/km	≤ 0,32
		(λ= 1550 nm), dB/km	≤ 0,22
2	Water blocking element		Thixotropic filling compound (gel)
3	Filler		Polyethylene (HDPE)
4	Loose Tube		Polybutylene terephthalate (PBT)
5	Central strength member		FRP rod
6	FRP jacketing		Polyethylene (HDPE)
7	Water blocking element		Water blocking yarn
8	Fixing element		Aramid yarn
9	Ripcord		Polyester yarn
10	Outer jacket		Polyethylene (HDPE), black, UV-resistance



	B10P7S	B10P8S	B10PGS	B10PES	B10PKS	B10PNS	B10PRS	B10PTS	B10PXS
Fiber Count (x)	12		24		36	48	72	96	144
Design	1x12	2x6	4x6	2x12	3x12	4x12	6x12	8x12	12x12
Number of elements	6							8	12
Number of fillers	5	4	2	4	3	2	0		
Loose Tube diameter mm (in)	1,5 (0,06)								
Cable diameter mm (in)	5,6 (0,22)							6,6 (0,26)	8,4 (0,33)
Outer sheath thickness mm (in)	0,5 (0,02)								
Cable weight (±5%), kg/km (lbs/kft)	24 (16,1)		25 (16,8)			26 (17,5)	27 (18,1)	38 (25,5)	59 (39,6)
Max. tensile load Installation, kN	700 (157)						1000 (225)	1200 (270)	1500 (337)
Crush resistance, N/10 cm	500								
Min. bending radius	20 x Ø cable								

[1] - There are other types of fibers available for this cable according to the customer's request.

FIBER TYPES

ONE-MODE FIBERS:

Type of optical fiber according ITU-IT	Description	Maximum attenuation of the optical fiber (dB / km)						
		1310 nm	1383 nm	1410 nm	1450 nm	1490 nm	1550 nm	1625 nm
G.652.D ***Analogue of OS2***	Standard single-mode optical fiber with zero attenuation at "water peak"*	≤ 0.34	≤ 0.31	-	-	≤ 0.24	≤ 0.20	≤ 0.23
G.652.D LL (Low Loss)	Single-mode optical premium fiber with reduced losses at "water peak" and reduced attenuation at all the optical range	≤ 0.32	≤ 0.31	-	-	≤ 0.21	≤ 0.18	≤ 0.20
G.655 - A, B, C, D	Single-mode long-distance optical fiber with non-zero offset tightening for CWDM and DWDM systems with spectral compression of 10G, 40G and 100G channels	-	≤ 0.40	≤ 0.32	≤ 0.26	-	≤ 0.19	≤ 0.21
G.657.A1	Single-mode optical fiber resistant to microbending and fully compliant with the G.652.D standard, the minimum bending radius is 10-15 mm	≤ 0.35	≤ 0.35	-	-	≤ 0.24	≤ 0.20	≤ 0.23
G.657.A2	Single-mode optical fiber resistant to microbending and fully compliant with the G.652.D standard, the minimum bending radius is 7.5 mm	≤ 0.35	≤ 0.35	-	-	≤ 0.24	≤ 0.20	≤ 0.23
G.657.B3	Single-mode optical fiber resistant to microbending and fully compliant with the G.652.D standard, the minimum bending radius is 5 mm	≤ 0.35	≤ 0.35	-	-	≤ 0.24	≤ 0.20	≤ 0.23
G.657.B3 Plus	Single-mode optical fiber resistant to microbending and fully compliant with the G.652.D standard, the minimum bending radius is 2.5 mm	≤ 0.35	≤ 0.35	-	-	≤ 0.24	≤ 0.21	≤ 0.23

* The "water peak" separates the windows of transparency in the bandwidth of single-mode optical fibers in the ranges of 1300 nm and 1550 nm.

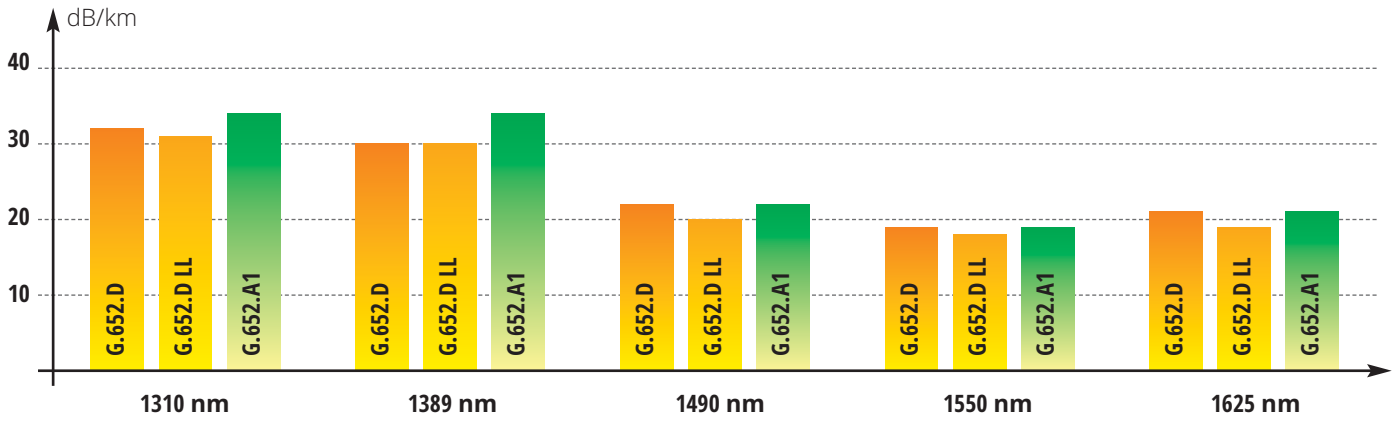
MULTI-MODE FIBERS:

Type of optical fiber according ITU-T	Bandwidth, MHz/km		Transmission distance, m			Attenuation, dB/km		Bending losses, 10 laps, dB				Bending losses, 10 laps, dB	
	850 nm	1300 nm	1GBase-SR	10GBase-SR	40GBase-SR4 / 100GBase-SR10	850 nm	1300 nm	Radius 7.5 mm		Radius 15 mm		Radius 30 mm	
								850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm
62.5/125 OM1	≥ 160	≥ 500	275	-	-	2.6	0.5	-				≥ 0.5	
50/125 OM2 *resistant to microbendings*	≥ 500	≥ 500	600	83	-	2.3	0.5	≥ 0.2	≥ 0.5	≥ 0.1	≥ 0.3	-	
50/125 OM3 *resistant to microbendings*	≥ 1500	≥ 500	1000	300	140	2.4	0.5	≥ 0.2	≥ 0.5	≥ 0.1	≥ 0.3	-	
50/125 OM4 *resistant to microbendings*	≥ 3500	≥ 500	1100	550	170	2.4	0.6	≥ 0.2	≥ 0.5	≥ 0.1	≥ 0.3	-	

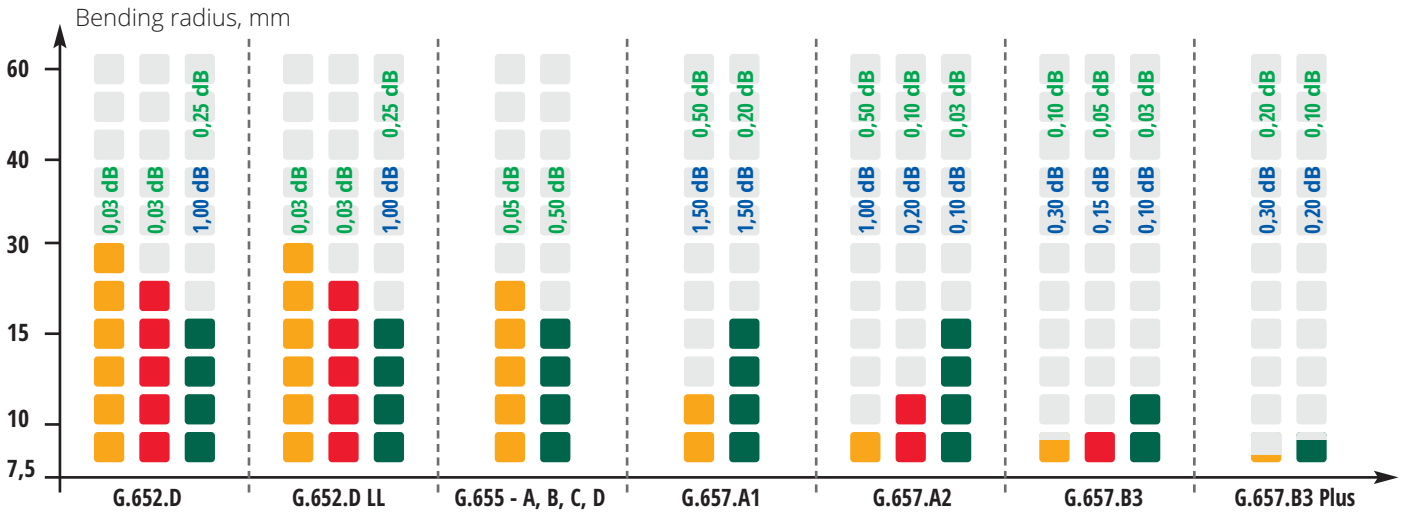
BENDING RESISTANCE

G.652.D Analogue of OS2	Bending radius 30mm, 10 laps 1550/1625nm ≤ 0.03dB	Bending radius 25mm, 100 laps 1310/1550nm ≤ 0.03dB	Bending radius 15mm, 10 laps 1550nm ≤ 0.25dB 1625nm ≤ 1.0dB
G.652.D LL (Low Loss)	Bending radius 30mm, 100 laps 1550/1625nm ≤ 0.03dB	Bending radius 25mm, 100 laps 1310/1550nm ≤ 0.03dB	Bending radius 15mm, 10 laps 1550nm ≤ 0.25dB 1625nm ≤ 1.0dB
G.655 - A, B, C, D	Bending radius 30mm, 100 laps 1550/1625nm ≤ 0.05dB	Bending radius 15mm, 1 lap 1310/1550nm ≤ 0.5dB	
G.657.A1	Bending radius 15mm, 10 laps 1550nm ≤ 0.2dB 1625nm ≤ 0.5dB	Bending radius 10mm, 1 lap 1550nm ≤ 0.5dB 1625nm ≤ 1.5dB	
G.657.A2	Bending radius 15mm, 10 laps 1550nm ≤ 0.03dB 1625nm ≤ 0.1dB	Bending radius 10mm, 1 lap 1550nm ≤ 0.1dB 1625nm ≤ 0.2dB	Bending radius 7.5mm, 1 lap 1550nm ≤ 0.5dB 1625nm ≤ 1.0dB
G.657.B3	Bending radius 10mm, 1 lap 1550nm ≤ 0.03dB 1625nm ≤ 0.1dB	Bending radius 7.5mm, 1 lap 1550nm ≤ 0.05dB 1625nm ≤ 0.15dB	Bending radius 5mm, 1 lap 1550nm ≤ 0.1dB 1625nm ≤ 0.3dB
G.657.B3 Plus	Bending radius 5mm, 1 lap 1550nm ≤ 0.1dB 1625nm ≤ 0.2dB	Bending radius 2.5mm, 1 lap 1550nm ≤ 0.2dB 1625nm ≤ 0.3dB	

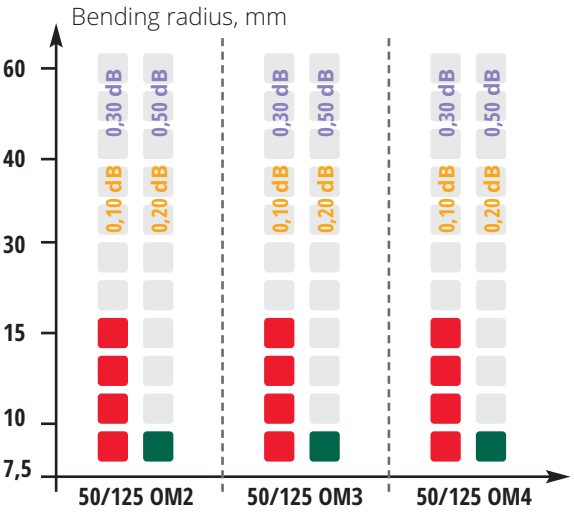
ATTENUATION dB/km



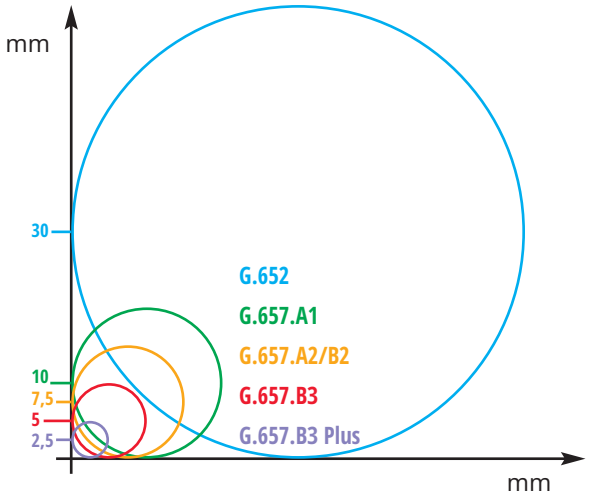
MAXIMUM ATTENUATION IN FUNCTION OF BENDING RADIUS
1550nm and 1625nm



BENDING LOSSES
850nm and 1300nm



ACCEPTED BENDING RADIUS, MM



COLOR CODING

- with marking rings

Default UTEX
DIN VDE 0888
(Equivalent of IEC 60304)

1	2	3	4	5	6	7	8	9	10	11	12
RD	GN	BU	YE	WH	GY	BN	VT	TQ	BK	OG	PK
13	14	15	16	17	18	19	20	21	22	23	24
RD	GN	BU	YE	WH	GY	BN	VT	TQ	NT	OG	PK

EIA-598
(Equivalent of
TIA / ANSI / IEEE 802.8)

1	2	3	4	5	6	7	8	9	10	11	12
BU	OG	GN	BN	GY	WH	RD	BK	YE	VT	PK	TQ
13	14	15	16	17	18	19	20	21	22	23	24
BU	OG	GN	BN	GY	WH	RD	NT	YE	VT	PK	TQ

Poland

1	2	3	4	5	6	7	8	9	10	11	12
RD	GN	BU	WH	VT	OG	GY	YE	BN	PK	BK	TQ
13	14	15	16	17	18	19	20	21	22	23	24
RD	GN	BU	WH	VT	OG	GY	YE	BN	PK	NT	TQ

EN-50174-1

1	2	3	4	5	6	7	8	9	10	11	12
BU	YE	RD	WH	GN	VT	OG	GY	TQ	BK	BN	PK
13	14	15	16	17	18	19	20	21	22	23	24
BU	YE	RD	WH	GN	VT	OG	GY	TQ	NT	BN	PK

ISO

1	2	3	4	5	6	7	8	9	10	11	12
BU	OG	GN	RD	GY	YE	BN	VT	WH	BK	PK	TQ
13	14	15	16	17	18	19	20	21	22	23	24
BU	OG	GN	RD	GY	YE	BN	VT	WH	NT	PK	TQ

Swisscom

1	2	3	4	5	6	7	8	9	10	11	12
RD	GN	YE	BU	WH	VT	OG	BK	GY	BN	PK	TQ
13	14	15	16	17	18	19	20	21	22	23	24
RD	GN	YE	BU	WH	VT	OG	NT	GY	BN	PK	TQ

CODING OF OPTICAL FIBER CABLES (BASED ON DIN 0888)

Flat flat outdoor cable
Micro cable with micro tubes
8 External strength member (outdoor cable figure 8 shape)

A Outdoor cable
J Indoor cable
A/J Universal outdoor and indoor cable

Q The cable contains a special waterproof elements
F Cable core filled in with gel

n Fiber quantity in monotube design
nTm n - quantity of tubes, m - fiber quantity in each tube

E Single-mode fiber
G Multi-mode fiber

Type of optical fiber
G.652.D
G.657.A1
G.657.A2
OM2
OM3
OM4

CODING | **ADDITIONAL CODING**

Flat - A - D Q (ZN - GY) 2Y | **xTy E 2,0kN G.652.D**

B Several fibers in loose tube without gel
H Single fiber in loose tube without gel
W Single fiber in loose tube filled in with gel
D Several fibers in loose tube filled in with gel
K Fiber in a semi-dense buffer (without gel)
V Fiber in tight buffer

nS Conductive elements of construction in the central part of the cable, n - quantity of conductive elements

ZM Metallic strength member
ZN Non-metallic strength member

Y P.V.C. outside jacket
2Y Polyethylene (PE) outside jacket
4Y Polyamide (PA) outside jacket
9Y Polypropylene (PP) outside jacket
11Y Polyurethane (PUR) outside jacket
H LSZH outside jacket - with low smoke emission and zero halogen content

Maximum tension load

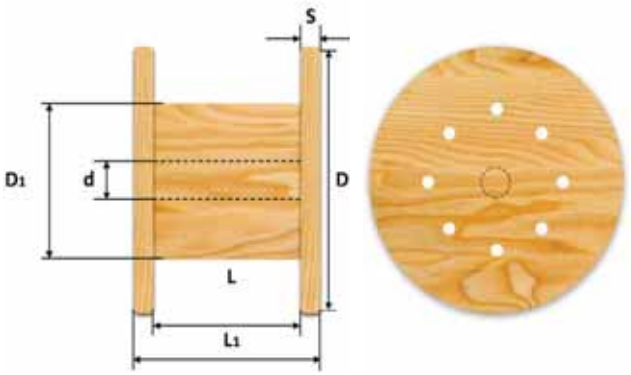
SR Inner jacket with corrugated steel tape
nP FRP rods, n-quantity
R Antirodent protection
GY Glass yarn
AY Aramid yarn

EXAMPLE OF MARKING OF OPTICAL CABLES MANUFACTURED BY UTEX UKRAINE:

yy - year of manufacture; xE - the in the cable; ZZZZZ - meter marks.

CABLE DRUMS

Drum identification	Flange diameter (excluding covering), mm D	Barrel diameter of drum, mm D1	Traverse width of drum, mm L	Flange thickness, mm S	Overall drum width, mm L1	Spindle hole diameter, mm d	Drum weight (excluding covering), kg
8	800	450	230	38	350	50	34
8a	800	450	400	38	520	50	36,5
8b	800	450	500	38	620	50	36,5
10	1000	545	500	50	646	50	39
10a	1000	500	710	50	864	50	55
12	1220	650	500	50	650	70	99
12a	1220	650	710	50	864	70	107
12b	1220	600	600	50	746	70	110
14	1400	750	710	58	875	70	165
14a	1400	900	500	58	665	70	152
14b	1400	1000	600	58	770	70	186
14c	1400	750	710	70	904	70	172
14d	1400	750	900	58	1065	70	202
16	1600	1200	600	58	770	70	241
16a	1600	800	800	58	970	80	237
17	1700	900	750	70	944	80	277
17a	1700	900	900	70	1094	80	295
18	1800	1120	900	80	1120	80	422
18a	1800	900	900	80	1122	80	422
18b	1800	1120	1100	80	1222	80	470
18c	1800	1120	1150	70	950	80	342
20	2000	1220	1000	90	1250	80	584
20a	2000	1000	1060	90	1302	80	555
20b	2000	1500	1000	90	1242	80	720



CABLE REELS

Reel identification	Flange diameter, mm D	Sleeve diameter, mm D1	Sleeve length, mm L	Overall reel width, mm L1	Reel weight, kg
300a	300	152	250	270	2,2
300	500	200	300	320	2,8
350a	370	200	350	370	2,8
350	500	200	350	370	3,2
500	500	200	500	520	4,5
530	500	200	530	550	4,5
600	500	200	600	620	5,1
700	500	200	700	720	6,0

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