

Fiber Optic Cable

KCEP
30 YEARS
AMONG
THE FIRST



ABOUT US



30 years
success



100 000 m²
production
area



> 250
employees



> 3,5 mio. km.
of fiber
expendet



> 50 000 km.
of FOC exported
to Europe

Production capacity per year



Fiber optic
cable
72 000 km.



LAN
cable
42 000 km.



Fiber optic
patchcords
200 000 pc.

KCEP - the first **fiber optic** &
LAN cable producer
in Kazakhstan

HISTORY

The first fiber optic & LAN cable producer in Kazakhstan

We follow the principles of proper quality of products and a high level of service – this is a business culture that every employee of the company cultivates, and which is crucial for the long-term success, both ours and our customers.

1993
Establishment of the company



2016
Production of fiber optic microcable



2003
ISO 9001 is implemented

ISO

2018
Testing of FOC according to IEC



2009
Production of FOC



2019
«Digital Kazakhstan» project supplier



2010
A new workshop was build



2020
Introduction of LEAN

LEAN

2011
Production of FTTH product range

FTTH

2021
Equipment fleet renovation



2015
Testing of LAN cable according to IEC



2022
Export share > 50%



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AIR BLOWN MICRO CABLE max. 12F

Cable type A-D(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Optical fiber
- 2 Gel filled optical loose tube
- 3 Aramid yarns
- 4 Outer sheath

● Technical data

Code of cable type	7211	7216		7201	7212	7213	7203
Number of fibers	2-4	2	4	2-4	6-12		
Cable outer diameter, mm	2,0±0,1	2,4±0,2			2,0±0,1	2,4±0,2	
Fiber type, μm	200/250						
Minimum bending radius	15D						
Installation tensile strength, N	60	80	150	200	100	80	200
Operating temperature, °C	-30 +70						
Installation temperature, °C	-10 +60						
Microtube, OD/ID	5/3,5	7/4			5/3,5	7/4	

More information on kcep.kz 

AIR BLOWN MICRO CABLE max. 24F

Cable type A-D(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Optical fiber
- 2 Gel filled optical loose tube
- 3 Aramid yarns
- 4 Outer sheath

● Technical data

Code of cable type	7207	7206	7204	7215
Number of fibers	2-24			
Cable outer diameter, mm	2,4±0,2	2,9±0,2	3,4±0,2	2,9±0,2
Fiber type, μm	200		200/250	
Minimum bending radius	15D			
Installation tensile strength, N	200	250		
Operating temperature, °C	-20 +70			
Installation temperature, °C	-10 +60			
Microtube, OD/ID	7/4		10/6	

More information on kcep.kz 

AIR BLOWN MINI CABLE max. 72F

Cable type A-DQ(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Rip-cord
- 5 Water-blocking element
- 6 Outer sheath

● Technical data

Code of cable type	1038	1081b	1081a
Number of fibers		12-72	
Number of loose tube		1 ... 6	
Number of fillers		5 ... 0	
Cable outer diameter, mm	4,2±0,2	5,3±0,2	5,6±0,2
Fiber type, μm	200	200/250	
Minimum bending radius		20D	
Installation tensile strength, N	600	700	1 000
Operating temperature, °C	-20 +70	-40 +70	
Installation temperature, °C		-10 +50	
Microtube, OD/ID	10/6	10/8 or 12/8	

More information on kcep.kz 

AIR BLOWN MINI CABLE max. 96F

Cable type A-DQ(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Rip-cord
- 5 Water-blocking element
- 6 Outer sheath

● Technical data

Code of cable type	10139	1035c/1036c	1035b/1036b
Number of fibers		12-96	
Number of loose tube		1 ... 8	
Number of fillers		7 ... 0	
Cable outer diameter, mm	4,4±0,2	5,8±0,2	6,0±0,2
Fiber type, μm	200	200/250	
Minimum bending radius	20D		
Installation tensile strength, N	1 400	2 000	
Operating temperature, °C	-20 +70	-40 +70	
Installation temperature, °C	-10 +50		
Microtube, OD/ID	10/8	10/8 or 12/8	

More information on kcep.kz 

AIR BLOWN MINI CABLE max. 144F

Cable type A-DQ(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Rip-cord
- 5 Water-blocking element
- 6 Outer sheath

● Technical data

Code of cable type	10145	10199	1077
Number of fibers	24-144	12-144	
Number of loose tube	1 ... 6	1 ... 12	
Number of fillers	5 ... 0	11 ... 0	
Cable outer diameter, mm	5,7±0,2	6,2±0,2	7,6±0,2
Fiber type, μm	200		200/250
Minimum bending radius	20D		
Installation tensile strength, N	800	2 000	3 000
Operating temperature, °C	-30 +70		
Installation temperature, °C	-5 +50	-15 +50	
Microtube, OD/ID	10/8 or 12/8		14/10

More information on kcep.kz 

AIR BLOWN MINI CABLE max. 192F

Cable type A-DQ(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Water-blocking element
- 5 Rip-cord
- 6 Outer sheath

● Technical data

Code of cable type	10135/10136	10134	10137
Number of fibers		24-192	
Number of loose tube		1 ... 8	
Number of fillers		7 ... 0	
Cable outer diameter, mm	6,4±0,2	7,4±0,2	7,6±0,2
Fiber type, μm		200	200/250
Minimum bending radius	20D	15D	20D
Installation tensile strength, N	2 000	4 000	2 500
Operating temperature, °C		-30 +70	
Installation temperature, °C		-15 +50	
Microtube, OD/ID	10/8 or 12/8		14/10

More information on kcep.kz 

AIR BLOWN MINI CABLE max. 192F

Cable type A-DQ(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Water-blocking element
- 5 Rip-cord
- 6 Outer sheath

● Technical data

Code of cable type	1098	1079
Number of fibers		12-192
Number of loose tube		1 ... 16
Number of fillers		15 ... 0
Cable outer diameter, mm	6,5±0,2	7,8±0,2
Fiber type, μm	200	200/250
Minimum bending radius		20D
Installation tensile strength, N	500	800
Operating temperature, °C		-20 +70
Installation temperature, °C		-15 +50
Microtube, OD/ID		14/10

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AIR BLOWN MINI CABLE max. 288F

Cable type A-DQ(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Water-blocking element
- 5 Rip-cord
- 6 Outer sheath

● Technical data

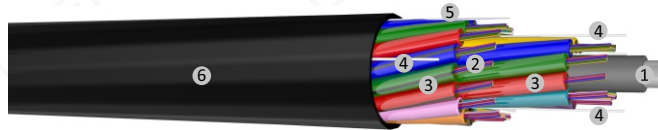
Code of cable type	1080	1091
Number of fibers	24-216	24-288
Number of loose tube	1 ...9	1 ... 12
Number of fillers	8 ... 0	11 ... 0
Cable outer diameter, mm	7,0±0,2	8,0±0,2
Fiber type, μm	200	
Minimum bending radius	20D	
Installation tensile strength, N	2 500	3 500
Operating temperature, °C	-30 +70	
Installation temperature, °C	-10 +60	-15 +50
Microtube, OD/ID	14/10	16/12

More information on kcep.kz 

AIR BLOWN MINI CABLE max. 288F

Cable type A-DQ(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Water-blocking element
- 5 Rip-cord
- 6 Outer sheath

● Technical data

Code of cable type	10102	10124a
Number of fibers		12-288
Number of loose tube		1 ...24
Number of fillers		23 ... 0
Cable outer diameter, mm	7,9±0,2	9,2±0,2
Fiber type, μm	200	200/250
Minimum bending radius		20D
Installation tensile strength, N	2 000	2 500
Operating temperature, °C		-20 +70
Installation temperature, °C	-10 +50	-15 +50
Microtube, OD/ID	14/10	16/12

More information on kcep.kz 

AIR BLOWN MINI CABLE max. 576F

Cable type A-DQ(ZN)2Y / 4Y

Application Optical fiber cable for microduct installation by blowing



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Water-blocking element
- 5 Rip-cord
- 6 Outer sheath

● Technical data

Code of cable type	10118	10129	10128
Number of fibers	24-432	24-576	
Number of loose tube	1 ... 18	1 ... 24	
Number of fillers	17 ... 0	23 ... 0	
Cable outer diameter, mm	9,4±0,2	9,8±0,2	11,4±0,2
Fiber type, μm	200		250
Minimum bending radius	20D		
Installation tensile strength, N	2 000	3 000	4 000
Operating temperature, °C	-20 +70		-30 +70
Installation temperature, °C	-10 +50		
Microtube, OD/ID	16/12		20/15

More information on kcep.kz 



ARMORED MINI CABLE WITH GLASS YARNS max. 24F

Cable type A-DQ(ZN)B2Y

Application Optical fiber cable for cabling in ducts and utility tunnels



- 1 Optical fiber
- 2 Gel filled optical loose tube
- 3 Glass yarns
- 4 Rip-cord
- 5 Outer sheath

● Technical data

Code of cable type	6211b
Number of fibers	2-24
Cable outer diameter, mm	7,2±0,2
Fiber type, μm	250
Minimum bending radius	20D
Installation tensile strength, N	3 000
Operating temperature, °C	-40 +70
Installation temperature, °C	-5 +50

More information on kcep.kz 

ARMORED MINI CABLE WITH GLASS YARNS max. 72F

Cable type A-DQ(ZN)B2Y

Application Optical fiber cable for cabling in ducts and utility tunnels



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Glass yarns
- 5 Outer sheath

● Technical data

Code of cable type	6314	6322	6325
Number of fibers	12-60	12-72	
Number of loose tube	1 ... 5	1 ... 6	
Number of fillers	4 ... 0	5 ... 0	
Cable outer diameter, mm	10,2±0,2	10,0±0,2	11,5±0,2
Fiber type, μm	250		
Minimum bending radius	20D		
Installation tensile strength, N	4 000	3 000	6 000
Operating temperature, °C	-40 +70	-20 +70	-40 +70
Installation temperature, °C	-10 +50		

More information on kcep.kz 

ARMORED MINI CABLE WITH GLASS YARNS max. 96F

Cable type A-DQ(ZN)B2Y

Application Optical fiber cable for cabling in ducts and utility tunnels



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Glass yarns
- 5 Outer sheath

● Technical data

Code of cable type	6329	6308	6326
Number of fibers		12-96	
Number of loose tube		1 ... 8	
Number of fillers		7 ... 0	
Cable outer diameter, mm	11,1±0,2	12,1±0,2	13,0±0,2
Fiber type, μm		250	
Minimum bending radius		20D	
Installation tensile strength, N	3 000	3 500	7 000
Operating temperature, °C	-20 +70		-40 +70
Installation temperature, °C	-5 +50		-10 +50

More information on kcep.kz 

ARMORED MINI CABLE WITH GLASS YARNS max. 144F

Cable type A-DQ(ZN)B2Y

Application Optical fiber cable for cabling in ducts and utility tunnels



- 1 Central strength element
- 2 Optical fiber
- 3 Rip-cord
- 4 Gel filled optical loose tube
- 5 Glass yarns
- 6 Outer sheath

● Technical data

Code of cable type	6305	6327
Number of fibers	12-144	
Number of loose tube	1 ... 12	
Number of fillers	11 ... 0	
Cable outer diameter, mm	11,6±0,2	16,0±0,2
Fiber type, μm	250	
Minimum bending radius	20D	
Installation tensile strength, N	3 000	7 000
Operating temperature, °C	-30 +70	-40 +70
Installation temperature, °C	-10 +50	

More information on kcep.kz 

ARMORED MINI CABLE WITH GLASS YARNS max. 192F

Cable type A-DQ(ZN)B2Y

Application Optical fiber cable for cabling in ducts and utility tunnels



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Glass yarns
- 5 Outer sheath

● Technical data

Code of cable type	6320
Number of fibers	24-192
Number of loose tube	1 ... 8
Number of fillers	7 ... 0
Cable outer diameter, mm	12,8±0,2
Fiber type, μm	250
Minimum bending radius	20D
Installation tensile strength, N	4 000
Operating temperature, °C	-30 +70
Installation temperature, °C	-10 +50

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ARMORED MINI CABLE WITH GLASS YARNS max. 288F

Cable type A-DQ(ZN)B2Y

Application Optical fiber cable for cabling in ducts and utility tunnels



- 1 Central strength element
- 2 Optical fiber
- 3 Rip-cord
- 4 Gel filled optical loose tube
- 5 Water-blocking element
- 6 Glass yarns
- 7 Outer sheath

● Technical data

Code of cable type	6323	6318	6374
Number of fibers	24-288	12-288	
Number of loose tube	1 ... 12	1 ... 24	
Number of fillers	11 ... 0	23 ... 0	
Cable outer diameter, mm	9,7±0,2	10,4±0,2	14,3±0,2
Fiber type, μm	200	250	
Minimum bending radius	20D		
Installation tensile strength, N	2 500		5 000
Operating temperature, °C	-30 +70		
Installation temperature, °C	-15 +50	-15 +60	-10 +50

More information on kcep.kz 

ARMORED MINI CABLE WITH GLASS YARNS max. 432F

Cable type A-DQ(ZN)B2Y

Application Optical fiber cable for cabling in ducts and utility tunnels



- 1 Central strength element
- 2 Optical fiber
- 3 Rip-cord
- 4 Gel filled optical loose tube
- 5 Water-blocking element
- 6 Core-filler
- 7 Glass yarns
- 8 Outer sheath

● Technical data

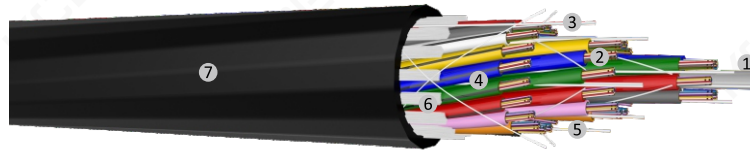
Code of cable type	6309	6321
Number of fibers	12-216	24-432
Number of loose tube	1 ... 18	
Number of fillers	17 ... 0	
Cable outer diameter, mm	13,1±0,2	18,2±0,2
Fiber type, μm	250	
Minimum bending radius	20D	
Installation tensile strength, N	3 000	9 000
Operating temperature, °C	-30 +70	-40 +70
Installation temperature, °C	-15 +50	-10 +50

More information on kcep.kz 

ARMORED MINI CABLE WITH GLASS YARNS max. 864F

Cable type A-DQ(ZN)B2Y

Application Optical fiber cable for cabling in ducts and utility tunnels



- 1 Central strength element
- 2 Optical fiber
- 3 Rip-cord
- 4 Gel filled optical loose tube
- 5 Water-blocking element
- 6 Glass yarns
- 7 Outer sheath

● Technical data

Code of cable type	6313
Number of fibers	24-864
Number of loose tube	1 ... 36
Number of fillers	35 ... 0
Cable outer diameter, mm	19,3±0,2
Fiber type, μm	250
Minimum bending radius	20D
Installation tensile strength, N	4 000
Operating temperature, °C	-20 +70
Installation temperature, °C	-15 +50

More information on kcep.kz 

ARMORED CABLE WITH STEEL TAPE max. 24F

Cable type A-DF(SR)2Y

Application For installation in ducts, pipes, blocks, collectors, on bridges, in mines, in case of damage danger by rodents, in places with long-term flooding conditions



- ① Optical fiber
- ② Gel filled optical loose tube
- ③ Corrugated steel tape
- ④ Peripheral strength member
- ⑤ Outer sheath

● Technical data

Code of cable type	2207	2205
Number of fibers	2-24	
Number of loose tube	1	
Number of fillers	0	
Cable outer diameter, mm	7,8±0,3	8,5±0,3
Fiber type, μm	250	
Minimum bending radius	20D	
Installation tensile strength, N	2 000	3 000
Operating temperature, °C	-40 +70	
Installation temperature, °C	-10 +50	

More information on kcep.kz 

ARMORED CABLE WITH STEEL TAPE max. 144F

Cable type A-DF(ZN)(SR)2Y

Application For installation in ducts, pipes, blocks, collectors, on bridges, in mines, in case of damage danger by rodents, in places with long-term flooding conditions



- 1 Central strength member
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Corrugated steel tape
- 5 Outer sheath

● Technical data

Code of cable type	2041	2042	2043	2044	2045
Number of fibers	4-24	6-36	8-48	12-96	12-144
Number of loose tube		1 ... 6		1 ... 8	1 ... 12
Number of fillers		5 ... 0		7 ... 0	11 ... 0
Cable outer diameter, mm		7,9±0,3		10,0±0,3	12,8±0,3
Fiber type, μm			250		
Minimum bending radius			20D		
Installation tensile strength, N		3 000		3 500	3 000
Operating temperature, °C			-40 +70		
Installation temperature, °C			-10 +50		

More information on kcep.kz 

DOUBLE SHEATH ARMORED CABLE WITH STEEL TAPE max. 12F

Cable type A-DQ(ZN)2Y(SR)2Y

Application For installation in ducts, pipes, blocks, collectors, on bridges, in mines, in case of damage danger by rodents, in places with long-term flooding conditions



- ① Optical fiber
- ② Gel filled optical loose tube
- ③ Glass yarns
- ④ Rip-cord
- ⑤ Inner sheath
- ⑥ Corrugated steel tape
- ⑦ Outer sheath

● Technical data

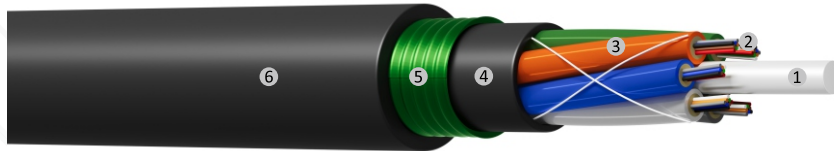
Code of cable type	2208	2206
Number of fibers	2-12	
Number of loose tube	1	
Number of fillers	0	
Cable outer diameter, mm	10,0±0,2	10,4±0,2
Fiber type, μm	250	
Minimum bending radius	20D	
Installation tensile strength, N	2 700	1 500
Operating temperature, °C	-30 +70	-25 +70
Installation temperature, °C	-10 +50	-5 +50

More information on kcep.kz 

DOUBLE SHEATH ARMORED CABLE WITH STEEL TAPE max. 96F

Cable type A-DQ(ZN)2Y(SR)2Y

Application For installation in ducts, pipes, blocks, collectors, on bridges, in mines, in case of damage danger by rodents, in places with long-term flooding conditions



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Inner sheath
- 5 Corrugated steel tape
- 6 Outer sheath

● Technical data

Code of cable type	2402	2403	2404
Number of fibers	8-48	12-72	12-96
Number of loose tube	1 ... 6		1 ... 8
Number of fillers	5 ... 0		7 ... 0
Cable outer diameter, mm	11,1±0,3	12,5±0,2	13,4±0,2
Fiber type, μm	250		
Minimum bending radius	20D		
Installation tensile strength, N	2 700		3 400
Operating temperature, °C	-40 +70	-30 +70	
Installation temperature, °C	-10 +50		

More information on kcep.kz 

DOUBLE SHEATH ARMORED CABLE WITH STEEL TAPE max. 288F

Cable type A-DQ(ZN)2Y(SR)2Y

Application For installation in ducts, pipes, blocks, collectors, on bridges, in mines, in case of damage danger by rodents, in places with long-term flooding conditions



- 1 Central strength element
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Water-blocking element
- 5 Rip-cord
- 6 Inner sheath
- 7 Corrugated steel tape
- 8 Outer sheath

● Technical data

Code of cable type	24124
Number of fibers	12-288
Number of loose tube	1 ... 24
Number of fillers	23 ... 0
Cable outer diameter, mm	13,0±0,2
Fiber type, μm	250
Minimum bending radius	20D
Installation tensile strength, N	4 000
Operating temperature, °C	-30 +70
Installation temperature, °C	-15 +50

More information on kcep.kz 

ARMORED CABLE WITH STEEL TAPE AND TWISTED PAIR max. 60F

Cable type A-DSQ(ZN)(SR)2Y

Application For installation in ducts, pipes, blocks, collectors, on bridges, in mines, in case of damage danger by rodents, in places with long-term flooding conditions



- ① Central strength element
- ② Optical fiber
- ③ Gel filled optical loose tube
- ④ Twisted pair
- ⑤ Rip-cord
- ⑥ Water-blocking element
- ⑦ Corrugated steel tape
- ⑧ Outer sheath

● Technical data

Code of cable type	2040
Number of fibers	12-60
Number of loose tube	1 ... 5
Number of fillers	4 ... 0
Cable outer diameter, mm	11,3±0,2
Fiber type, μm	250
Minimum bending radius	20D
Installation tensile strength, N	3 500
Operating temperature, °C	-20 +70
Installation temperature, °C	-10 +50

More information on kcep.kz 

DOUBLE SHEATH MINI CABLE max. 144F

Cable type A-DQ(ZN)2Y4Y

Application For installation in ducts, pipes, blocks, collectors, on bridges, in mines, in case of damage danger by rodents, in places with long-term flooding conditions



- ① Central strength element
- ② Optical fiber
- ③ Gel filled optical loose tube
- ④ Rip-cord
- ⑤ Water-blocking element
- ⑥ Inner sheath
- ⑦ Outer sheath

● Technical data

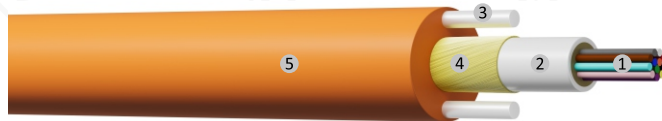
Code of cable type	10125	10126
Number of fibers	12-72	12-144
Number of loose tube	1 ... 6	1 ... 12
Number of fillers	5 ... 0	11 ... 0
Cable outer diameter, mm	11,2±0,2	15,5±0,2
Fiber type, μm		250
Minimum bending radius		20D
Installation tensile strength, N	1 500	2 500
Operating temperature, °C		-40 +70
Installation temperature, °C		-5 +60

More information on kcep.kz 

ADSS CABLE

Cable type ADSS

Application Single-module suspended dielectric optical cable is intended for suspension between houses, lighting poles on 0,4-10 kV power lines, laying in pipes



- ① Optical fiber
- ② Gel filled optical loose tube
- ③ Peripheral strength element
- ④ Aramid yarns
- ⑤ Outer sheath

● Technical data

Code of cable type	1226	7301	7302	7303
Number of fibers	2-6		8-12	24
Number of loose tube	1			
Number of fillers	0			
Cable outer diameter, mm	4,6±0,2	5,5±0,2	5,8±0,2	6,2±0,2
Fiber type, μm	250			
Minimum bending radius	20D			
Installation tensile strength, N	1 200			
Operating temperature, °C	-20 +60			-30 +70
Installation temperature, °C	-10 +50			-20 +50

More information on kcep.kz 

ADSS CABLE

Cable type ADSS

Application For aerial installation between communication, electric and railway poles



- 1 Central strength element
- 2 Optical fiber
- 3 Rip-cord
- 4 Gel filled optical loose tube
- 5 Inner sheath
- 6 Aramid yarns
- 7 Outer sheath

● Technical data

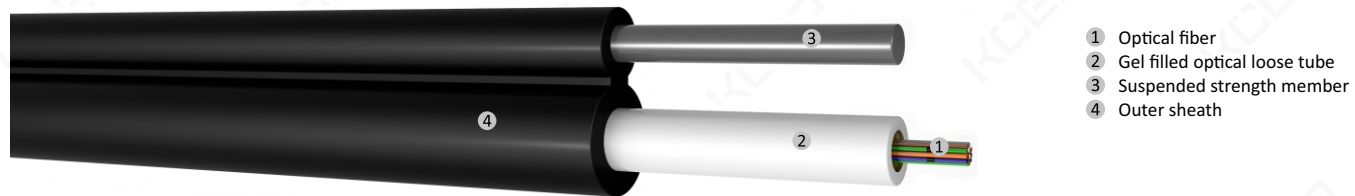
Code of cable type	7008	7129	7128	7127	7126
Number of fibers	2-24	12-72	12-96	12-144	12-288
Number of loose tube	1 ... 6		1 ... 8	1 ... 12	1 ... 24
Number of fillers	5 ... 0		7 ... 0	11 ... 0	23 ... 0
Cable outer diameter, mm	9,2±0,3	11,7±0,3	11,8±0,3	13±0,3	14,4±0,3
Fiber type, μm	250				
Minimum bending radius	20D				
Installation tensile strength, N	8 000	7 000		7 400	
Operating temperature, °C	-40 +50		-20 +70		
Installation temperature, °C	-10 +50		-15 +50		

More information on kcep.kz 

FIGURE 8 CABLE

Cable type A-DF2Y

Application For suspension on communication poles, public lighting poles and between buildings



● Technical data

Code of cable type	3209	3210	3213	3212
Number of fibers	2-24			
Number of loose tube	1			
Number of fillers	0			
Cable outer sizes, mm	4,8x8,1±0,3	4,7x10,5±0,3	4,9x10,0±0,3	5,5x11,0±0,3
Fiber type, μm	250			
Minimum bending radius	20D			
Installation tensile strength, N	2 000	4 000	3 500	6 500
Operating temperature, °C	-40 +70		-50 +70	
Installation temperature, °C	-10 +50			

More information on kcep.kz 

FIGURE 8 CABLE

Cable type A-DF2Y

Application For suspension on communication poles, public lighting poles and between buildings



- ① Central strength member
- ② Optical fiber
- ③ Gel filled optical loose tube
- ④ Suspended strength member
- ⑤ Outer sheath

● Technical data

Code of cable type	3049a	3049	3047a	3047
Number of fibers	4-24	8-48	4-24	8-48
Number of loose tube	1 ... 6			
Number of fillers	5 ... 0			
Cable outer sizes, mm	8,5x13,6±0,3		8,5x13,8±0,3	
Fiber type, μm	250			
Minimum bending radius	20D			
Installation tensile strength, N	5 000		7 000	
Operating temperature, °C	-50 +70			
Installation temperature, °C	-10 +50			

More information on kcep.kz 

DIELECTRIC FIGURE 8 CABLE

Cable type A-DF(ZN)2Y

Application For suspension on communication poles, public lighting poles and between buildings



- 1 Central strength member
- 2 Optical fiber
- 3 Gel filled optical loose tube
- 4 Suspended strength member
- 5 Outer sheath

● Technical data

Code of cable type	3049a	3047
Number of fibers		4-24
Number of loose tube		1 ... 6
Number of fillers		5 ... 0
Cable outer sizes, mm	8,6x14,6±0,3	8,6x16,1±0,3
Fiber type, μm		250
Minimum bending radius		20D
Installation tensile strength, N	4 000	7 000
Operating temperature, °C		-50 +70
Installation temperature, °C		-10 +50

More information on kcep.kz 

FLAT CABLE

Cable type A-D(ZN)2Y

Application For suspension between communication poles, installation in cable racks, on the walls of building



- 1 Optical fiber
- 2 Gel filled optical loose tube
- 3 Peripheral strength member
- 4 Outer sheath

● Technical data

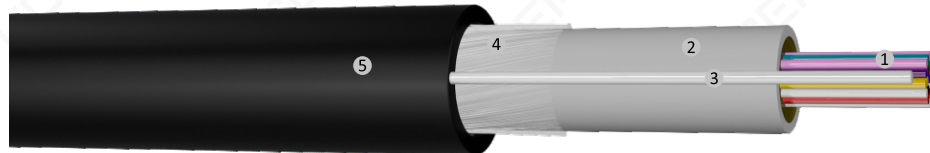
Code of cable type	1221	1222	1223	1201	1210	1224	1225
Number of fibers	1-2	2-4	8-16	2-16	2-24		4-48
Number of loose tube	1			2		1	2
Number of fillers	0						
Cable outer sizes, mm	2,4x5,2±0,3	2,8x6,5±0,3	3,6x7,2±0,3	5,5x8,0±0,2	3,6x11,0±0,2	3,6x8,1±0,2	4,5x10,5±0,2
Fiber type, μm	250						
Minimum bending radius	20D						
Installation tensile strength, N	500	1 100	1 500	1 500		2 000	2 200
Operating temperature, °C	-50 +70			-40 +70		-50 +70	-40 +70
Installation temperature, °C	-10 +50						

More information on kcep.kz 

SUSPENDED CABLE WITH GLASS YARNS

Cable type A-DQ(ZN)B2Y

Application for suspension between buildings, on lighting poles, on 0,4-10 kV power lines, in cable ducts, pipes, blocks, collectors, on bridges and in shafts



- ① Optical fiber
- ② Gel filled optical loose tube
- ③ Rip-Cord
- ④ Glass yarns
- ⑤ Outer sheath

● Technical data

Code of cable type	6210
Number of fibers	2-24
Number of loose tube	1
Number of fillers	0
Cable outer diameter, mm	5,9±0,3
Fiber type, μm	250
Minimum bending radius	20D
Installation tensile strength, N	2 000
Operating temperature, °C	-50 +70
Installation temperature, °C	-10 +50

More information on kcep.kz 

SUSPENDED CABLE WITH GLASS YARNS

Cable type A-DQ(ZN)B2Y

Application for suspension between buildings, on lighting poles, on 0,4-10 kV power lines, in cable ducts, pipes, blocks, collectors, on bridges and in shafts



- ① Central strength member
- ② Optical fiber
- ③ Gel filled optical loose tube
- ④ Glass yarns
- ⑤ Outer sheath

● Technical data

Code of cable type	6307a	6307	6328	6319	6324
Number of fibers	4-24	8-48	12-72	12-96	12-144
Number of loose tube		1 ... 6		1 ... 8	1 ... 12
Number of fillers		5 ... 0		7 ... 0	11 ... 0
Cable outer diameter, mm		9,0±0,3	9,6±0,3	11,1±0,3	12,0±0,3
Fiber type, μm			250		
Minimum bending radius			20D		
Installation tensile strength, N		4 700	4 300	4 700	5 500
Operating temperature, °C			-50 +70		
Installation temperature, °C			-10 +50		

More information on kcep.kz 

SUSPENDED CABLE WITH GLASS YARNS

Cable type A-DQ(ZN)B2Y

Application for suspension between buildings, on lighting poles, on 0,4-10 kV power lines, in cable ducts, pipes, blocks, collectors, on bridges and in shafts



- ① Central strength member
- ② Optical fiber
- ③ Gel filled optical loose tube
- ④ Glass yarns
- ⑤ Outer sheath

● Technical data

Code of cable type	6330a	6330	6331
Number of fibers	4-24	8-48	12-96
Number of loose tube	1 ... 6		1 ... 8
Number of fillers	5 ... 0		7 ... 0
Cable outer diameter, mm	10,2±0,2		11,2±0,3
Fiber type, μm	250		
Minimum bending radius	20D		
Installation tensile strength, N	7 000		
Operating temperature, °C	-50 +70		
Installation temperature, °C	-10 +50		

More information on kcep.kz 

ARMORED CABLE WITH STEEL WIRE

Cable type A-DQ(SW)2Y

Application For installation in soils of all categories, except soils tend to negative temperature deformations



- 1 Optical fiber
- 2 Rip-cord
- 3 Gel filled optical loose tube
- 4 Steel wires
- 5 Outer sheath

● Technical data

Code of cable type	6102	6103
Number of fibers	2-24	
Number of loose tube	1	
Number of fillers	0	
Cable outer diameter, mm	11,4±0,3	
Fiber type, μm	250	
Minimum bending radius	20D	
Installation tensile strength, N	7 000	8 000
Operating temperature, °C	-40 +70	
Installation temperature, °C	-10 +50	

More information on kcep.kz 

ARMORED CABLE WITH STEEL WIRE

Cable type A-DF2Y(SW)2Y

Application For installation in soils of all categories, except soils tend to negative temperature deformations



- ① Central strength member
- ② Optical fiber
- ③ Gel filled optical loose tube
- ④ Inner sheath
- ⑤ Steel wires
- ⑥ Outer sheath

● Technical data

Code of cable type	6054	6060	6057	6058	6059
Number of fibers	6-24	12-48	12-72	12-96	12-144
Number of loose tube	1 ... 4		1 ... 6	1 ... 8	1 ... 12
Number of fillers	3 ... 0		5 ... 0	7 ... 0	11 ... 0
Cable outer diameter, mm	11,4±0,3		12,4±0,3	14,0±0,3	16,6±0,3
Fiber type, μm	250				
Minimum bending radius	20D				
Installation tensile strength, N	9 200	13 000	15 000		
Operating temperature, °C	-50 +70				
Installation temperature, °C	-10 +50				

More information on kcep.kz 

DIELECTRIC ARMORED CABLE

Cable type A-DF(ZW)2Y

Application For installation in soils of all categories, except soils tend to negative temperature deformations










- ① Central strength member
- ② Optical fiber
- ③ Gel filled optical loose tube
- ④ FRP armor
- ⑤ Outer sheath

● Technical data

Code of cable type	6315	6316
Number of fibers	4-16	12-96
Number of loose tube	1 ... 4	1 ... 8
Number of fillers	3 ... 0	7 ... 0
Cable outer diameter, mm	10,0±0,3	12,2±0,3
Fiber type, μm	250	
Minimum bending radius	20D	
Installation tensile strength, N	3 000	
Operating temperature, °C	-50 +70	
Installation temperature, °C	-10 +50	

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● GENERAL SPECIFICATION

	Outer sheath	UV-resistant PE ■ or PA ■
	Fiber type	Single Mode 250 μm fiber according to ITU-T, G.652.D+G.657.A1, G.652.D, G.657.A1, G.657.A2 Single Mode 200 μm fiber according to ITU-T, G.652.D+G.657.A1, G.657.A1
	Standards	DIN VDE 0888 / IEC 60304 / IEC 60794 / IEC 60794 5-10
	Package type	Plywood coil / Wooden drum
	Length tolerance	±3,0%
	Short lengths	Maximum 5%
	Marking accuracy	±0,5%

* Packaging is based on cable length 6 km. Length could be changed according to Customer's requirements.
Length changes effects on packaging choice.

There are two options for drums' coverage that KCEP offer:

- WP (wooden package) – package of the drum using wooden planks fixed by nails through stelltape to drums flanges;
- SP (soft package) – package of the cable on a drum using packing mat made of polymer tape with wooden battens.

● PACKAGE



Package type	Dimensions, mm	Code of cable type
Coil OKKO №1	490x445x490	7201, 7203, 7207, 7211, 7212
Coil OKKO №2	600x448x600	7206, 7204
Coil OKKO №3	650x448x650	7205
Drum №8	800x620x800	1038
Drum №10	1000x630x1000	1081a, 1036c/1035c, 1036b/1035b, 10145, 10199
Drum №10a	1000x880x1000	1098, 10136/10135(O)
Drum №12a	1200x855x1200	1077, 10134/10134(O), 10137/10137(O), 1080, 1091, 10102, 6211b
Drum №14	1400x815x1400	10124a, 10118, 10129
Drum №14g	1400x1015x1400	6314, 6325, 6305, 6318
Drum №17	1700x965x1700	6308
Drum №18	1800x1200x1800	6326
Drum №18a	1800x1370x1800	6327, 6313 (4 km)
Drum №18b	1800x1370x1800	6309

The delivery of cable on plywood drums is possible by client request

● **PACKAGE**



Package type	Dimensions, mm	Code of cable type
Drum №10	1000x690x1000	3209, 6210, 1201, 1222, 1223, 1224
Drum №10a	1000x910x1000	1210,
Drum №12a	1220x914x1220	2205, 2207, 2041, 2042, 2043, 2206, 2208, 3212, 3213, 6307, 6307a, 1225
Drum №14	1400x914x1400	2044, 2401, 2403, 7008, 6319, 6328, 6330, 6057, 6315
Drum №14g	1400x1115x1400	2402, 2404, 3047, 3047a, 3049, 3049a, 3051, 3052, 6331, 6054, 6060, 6058
Drum №17	1700x965x1700	2045, 24124, 7127, 7128, 7129, 6324, 6316
Drum №18a	1800x1370x1800	6059
Drum №18b	1800x1370x1800	7126
Coil OKKO №3	650x448x650	1221

The delivery of cable on plywood drums is possible by client request



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