

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. 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	7211	7212	7201/7203	7207	7206	7204	7205
Number of fibers	2-4	6-12	2-12	2-24			
Cable outer diameter, mm	2,0±0,1		2,4±0,2		2,9±0,2	3,4±0,2	3,6±0,2
Fiber type, μm	200/250			200		200/250	
Minimum bending radius	15D						
Installation tensile strength, N	60	45	200		250	200	300
Operating temperature, °C	-30 +70	-20 +70	-30 +70	-20 +70			-30 +70
installation temperature, °C	-10 +60						
Microtube, OD/ID	5/3,5		7/4		10/6		

More information on kcep.kz 

AIR BLOWN CABLE MINI 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 Water-blocking element
- 5 Outer sheath

● Technical data

Code of cable type	1038	1081a	1081
Number of fibers		12-72	
Number of loose tube		1 ... 6	
Number of fillers		5 ... 0	
Cable outer diameter, mm	4,2±0,2	5,6±0,2	6,0±0,2
Fiber type, μm	200	200/250	
Minimum bending radius		20D	
Installation tensile strength, N	600	750	1 000
Operating temperature, °C	-20 +70		-40 +70
installation temperature, °C	-10 +50		-15 +70
Microtube, OD/ID	10/6	10/8 or 12/8	

More information on kcep.kz 

AIR BLOWN CABLE MINI 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 Water-blocking element
- 5 Outer sheath

● Technical data

Code of cable type	1036c/1035c	1036b/1035b	1036/1035	1034
Number of fibers	12-96			
Number of loose tube	1 ... 8			
Number of fillers	7 ... 0			
Cable outer diameter, mm	5,8±0,2	6,0±0,2	6,6±0,2	7,3±0,2
Fiber type, μm	250	200/250		
Minimum bending radius	20D			
Installation tensile strength, N	2 000			1 000
Operating temperature, °C	-40 +60			-20 +60
installation temperature, °C	-10 +50			-10 +70
Microtube, OD/ID	10/8 or 12/8		14/10	

More information on kcep.kz 

AIR BLOWN CABLE MINI 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 Water-blocking element
- 5 Outer sheath

● Technical data

Code of cable type	1078	1077	1037
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	6,2±0,2	7,6±0,2	9,1±0,2
Fiber type, μm	200	200/250	
Minimum bending radius	20D		
Installation tensile strength, N	1 000	3 000	2 500
Operating temperature, °C	-20 +70	-30 +60	-40 +60
installation temperature, °C	-10 +60	-15 +50	-10 +50
Microtube, OD/ID	10/8 or 12/8	14/10	16/12

More information on kcep.kz 

AIR BLOWN CABLE MINI max. 144F

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

Application Optical fiber cable for microduct installation by blowing



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

● Technical data

Code of cable type	1099
Number of fibers	12-144
Number of loose tube	1 ... 12
Number of fillers	11 ... 0
Cable outer diameter, mm	6,2±0,2
Fiber type, μm	200
Minimum bending radius	20D
Installation tensile strength, N	500
Operating temperature, °C	-20 +70
installation temperature, °C	-15 +50
Microtube, OD/ID	10/8 or 12/8

More information on kcep.kz 

AIR BLOWN CABLE MINI 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 Outer sheath

● Technical data

Code of cable type	10136/10135(O)	10134/10134(O)	10137/10137(O)
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	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 CABLE MINI 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 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	7,1±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

More information on kcep.kz 

AIR BLOWN CABLE MINI 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 Outer sheath

● Technical data

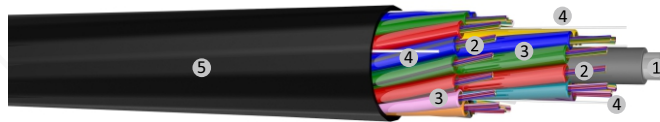
Code of cable type	1080	1091
Number of fibers	24-216	24-288
Number of loose tube	1 ...9	1 ... 12
Number of fillers	8 ... 0	11 ... 0
Cable outer diameter, mm	7,0±0,2	8,2±0,2
Fiber type, μm	200	
Minimum bending radius	20D	
Installation tensile strength, N	2 500	3 500
Operating temperature, °C	-30 +70	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

More information on kcep.kz 

AIR BLOWN CABLE MINI 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 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	1 600
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 CABLE MINI max. 576F

Cable type A-DQ(ZN)B2Y / 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 Outer sheath

● Technical data

Code of cable type	10118	10129
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
Fiber type, μm	200	
Minimum bending radius	20D	
Installation tensile strength, N	2 000	3 000
Operating temperature, °C	-20 +60	-20 +70
installation temperature, °C	-10 +50	
Microtube, OD/ID	16/12	

More information on kcep.kz 

AIR BLOWN CABLE MINI max. 48F

Cable type A-DQ(ZN)B2Y / 4Y

Application Optical fiber cable for microduct installation



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

● Technical data

Code of cable type	1033
Number of fibers	12-48
Number of loose tube	1 ... 4
Number of fillers	3 ... 0
Cable outer diameter, mm	4,2±0,2
Fiber type, μm	200/250
Minimum bending radius	20D
Installation tensile strength, N	750
Operating temperature, °C	-20 +60
installation temperature, °C	-5 +50
Microtube, OD/ID	10/6

More information on kcep.kz 



ARMORED CABLE MINI 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 Rip-cord
- 3 Gel filled optical loose tube
- 4 Glass yarns
- 5 Outer sheath

● Technical data

Code of cable type	6212	6213	6211
Number of fibers	2-12	2-24	
Cable outer diameter, mm	6,3±0,2	6,5±0,2	7,2±0,2
Fiber type, μm	250		
Minimum bending radius	20D		
Installation tensile strength, N	1 750		3 000
Operating temperature, °C	-25 +70	-25 +60	
installation temperature, °C	-5 +50		

More information on kcep.kz 

ARMORED CABLE MINI 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	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	10,3±0,2	11,5±0,2
Fiber type, μm	250	
Minimum bending radius	20D	
Installation tensile strength, N	4 000	6 000
Operating temperature, °C	-40 +60	
installation temperature, °C	-10 +50	

More information on kcep.kz 

ARMORED CABLE MINI 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	6308	6326
Number of fibers	12-96	
Number of loose tube	1 ... 8	
Number of fillers	7 ... 0	
Cable outer diameter, mm	12,1±0,2	13,0±0,2
Fiber type, μm	200/250	250
Minimum bending radius	20D	
Installation tensile strength, N	3 500	7 000
Operating temperature, °C	-40 +60	
Installation temperature, °C	-10 +50	

More information on kcep.kz 

ARMORED CABLE MINI 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	200/250	250
Minimum bending radius	20D	
Installation tensile strength, N	4 000	7 000
Operating temperature, °C	-30 +60	-40 +60
installation temperature, °C	-10 +50	

More information on kcep.kz 

ARMORED CABLE MINI WITH GLASS YARNS max. 216F

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
Number of fibers	12-216
Number of loose tube	1 ... 18
Number of fillers	17 ... 0
Cable outer diameter, mm	13,8±0,2
Fiber type, μm	200/250
Minimum bending radius	20D
Installation tensile strength, N	3 000
Operating temperature, °C	-30 +70
installation temperature, °C	-15 +50

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More information on kcep.kz

ARMORED CABLE MINI 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

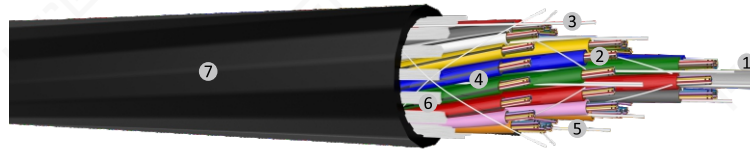
Code of cable type	1069	1074	6374
Number of fibers		12-288	
Number of loose tube		1 ... 24	
Number of fillers		23 ... 0	
Cable outer diameter, mm	10,5±0,5	13,75±0,2	14,5±0,2
Fiber type, μm	250	200/250	250
Minimum bending radius		20D	
Installation tensile strength, N	1 500	3 000	5 000
Operating temperature, °C	-30 +70	-30 +70	-30 +70
installation temperature, °C	-15 +60	-5 +50	-10 +50

More information on kcep.kz 

ARMORED CABLE MINI 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 

ADSS CABLE max. 60F

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 Water-blocking element
- 6 Aramid yarns
- 7 Outer sheath

● Technical data

Code of cable type	7120
Number of fibers	12-60
Number of loose tube	1 ... 5
Number of fillers	4 ... 0
Cable outer diameter, mm	9,8±0,3
Fiber type, μm	250
Minimum bending radius	20D
Installation tensile strength, N	4 000
Operating temperature, °C	-40 +70
installation temperature, °C	-15 +60

More information on kcep.kz 

ADSS CABLE max. 24F

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	7114
Number of fibers	4-24
Number of loose tube	1 ... 6
Number of fillers	5 ... 0
Cable outer diameter, mm	11,9±0,3
Fiber type, μm	250
Minimum bending radius	20D
Installation tensile strength, N	6 000
Operating temperature, °C	-40 +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.

● PACKAGING



Package type	Dimensions, mm	Code of cable type
Cable coil OKKO №1	490x445x490	7201, 7203, 7207, 7211, 7212
Cable coil OKKO №2	600x448x600	7206
Cable coil OKKO №3	650x448x650	7204, 7205
Cable drum №8	800x620x800	1038, 1033
Cable drum №10	1000x630x1000	1081a, 1081, 1036c/1035c, 1036b/1035b, 1036/1035, 1078, 1099
Cable drum №10A	1000x880x1000	1098, 10136/10135(O)
Cable drum №12A	1200x855x1200	1034, 1077, 10134/10134(O), 10137/10137(O), 1079, 1080, 1091, 10102, 6211
Cable drum №14	1400x815x1400	1037, 10124a, 10118, 10129, 7120
Cable drum №14G	1400x1015x1400	6314, 6325, 6305, 1069
Cable drum №17	1700x965x1700	6308, 7114
Cable drum №18	1800x1200x1800	6326
Cable drum №18A	1800x1370x1800	6327, 6313 (4 km)
Cable drum №18B	1800x1370x1800	6309

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



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