25.07.2025

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

ID: A20TxC

Cable Design	Purpose	Properties
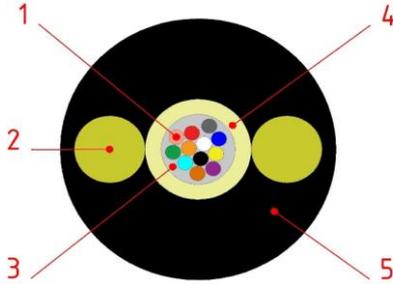
Aerial

UV resistant

All-dielectric

1.	Optical fiber	Single-mode Rec. ITU-T G.652.D
2.	Peripheral strength member	FRP rod
3.	Filler	Thixotropic filling compound (gel)
4.	Loose Tube	Polybutylene terephthalate (PBT)
5.	Outer jacket	Polyethylene (HDPE), black, UV-resistance

Technical data

		A20T1C	A20T2C	A20T3C	A20T5C	A20T7C	A20TEC
Optical fiber/Manufacturer		Single-mode Rec. ITU-T G.652.D					
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					
Number of optical fibers		1	2	4	8	12	24
Central tube diameter	(±0,2), mm	1,8			2,5		3,0
Cable diameter	(±0,4), mm	5,8			6,5		7,0
Cable weight	(±5%), kg/km	30			37		43
Max. Tension	Installation , kN	2,0					
	Operational, kN	1,0					
Crush resistance, N/10 cm		3000					
Cable modulus of elasticity, N/mm²		6520			5449		4864
Effective cable area, mm²		25,3			30,6		34,7
Thermal expansion coefficient, °C⁻¹		1,14E-05			1,28E-05		1,39E-05
Delivery Lengths	(±100) , m	2000 / 4000 *					
Temperature range	Operation, °C	-40 ... +70					
	Installation, °C	-10 ... +50					
	Storage, °C	-40 ... +70					
Min. bending radius		15xOD					

* - other lengths available upon agreement

Identification

Optical fibers	1 RD, 2 GN, 3 BU, 4 YE, 5 WH, 6 GY, 7 BN, 8 VT, 9 TQ, 10 BK, 11 OG, 12 PK 13 RD, 14 GN, 15 BU, 16 YE, 17 WH, 18 GY, 19 BN, 20 VT, 21 TQ, 22 NAT, 23 OG, 24 PK
Central Loose Tube	1 NAT
Cable marking	The cable is marked in yellow every 1 meter of length by inkjet printing UTEX 20yy A-D(ZN-2P)2Y xE 2,0kN A20TxC ZZZZZ m where: yyyy - year; xx - the number of optical fibers in the cable; ZZZZZ - sequential length mark.