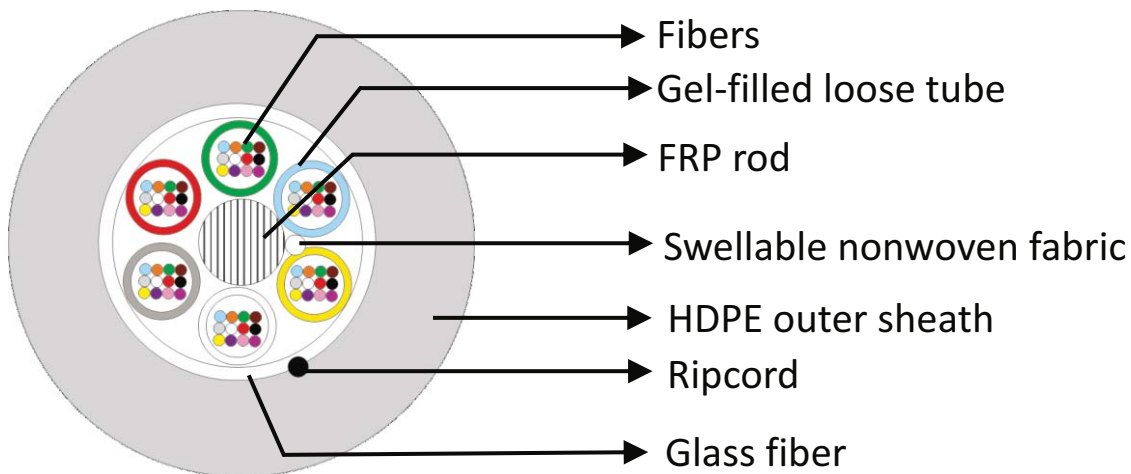


Product Information

Outdoor optical cable, gel filled and dry core – A-DQ(ZN)B2Y, 1500-3000N, the equivalent of Z-XOTKtsdD, rodent protection.

12-144 single-mode optical fibers; loose-tube structure; 12 fibers in a tube 1.8 mm. in diameter; outer sheath: black HDPE UV-resistant, for pulling, blowing and direct burial the ground.

PI_102331XY.Z_01.15



Application

Outdoor use.
For building vast telecommunications, cable television and city surveillance networks.

Standards

EN 187 000
IEC 60794-3, PN EN 60794-3; 2002 (U)
PN EN 60793-1-1; 2003 (U)
IEC 60794-1-2
IEC 60794-3-10
IEC 60794-3-12
ISO 11801 2-nd Edition
PN EN 50173-1
PN EN 41003; 2001
ITU-T G.652D

Structure

Central strength member	Ø 1.8 - 2.5 mm - dielectric FRP rod
Loose tube	Ø 1.8 mm filled with thixotropic gel, 12 fibers per tube
Water resistance	Cable core filled with water swellable nonwoven fabric
Cord for slitting the sheath	Ripcord - polyester cord for easy sheath slitting
Rodent protection	Layer of glass fiber
Cable sheath	Nominal thickness - 1.0 mm black HDPE UV - resistant

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Mechanical properties

Property	Testing methodology	Value
Maximum tensile strength	E1	Cables 12-72J: 1500N, cable 96J: 2500N, cable 144J: 3000N
Impact	E4	15Nm
Torsion	E7	± 360°
Temperature range	F1	Operation: -40°C +70°C
		Installation: -10°C +50°C
		Storage: -40°C +70°C
Minimum bend radius		Short term: 15 x D
		Long term: 20 x D
Fibers' colours*		Colour RE GR BL YE WH GR BR VIO TUR BL OR PI
Tubes' colours*		Colour RE GR BL YE WH GR BR VIO TUR BL OR PI

*There is a possibility of the Customer's own choice of colours and arrangement of fibers and tubes.

transmission parameters

Parameter	
Fiber type	G.652D (OS2)
Attenuation for 1310 nm wave	≤ 0.35 dB/km
Attenuation for 1550 nm wave	≤ 0.22 dB/km
Attenuation for 1383 nm (± 3 nm) wave	≤ 0.35 dB/km
Attenuation for 1625 nm wave	≤ 0.25 dB/km
Cut-off wavelength	≤ 1260 nm
Chromatic dispersion 1285 - 1330 nm	≤ 3.5 ps/nm/km
Chromatic dispersion 1550 nm	≤ 18 ps/nm/km
Chromatic dispersion 1625 nm	≤ 22 ps/nm/km
Fiber cladding diameter	125.0 ± 0.7 μm
Sheath diameter, colourless	245.0 ± 5 μm
Mode field diameter: 1310 nm	9.2 ± 0.4 μm
Mode field diameter: 1310 nm	10.4 ± 0.5 μm

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Number of fibers (number of fibers per tube)	Cable nominal diameter	Cable nominal weight
12J (1x12)	9.0 mm	60 ± 5 kg/km
24J (2x12)	9.0 mm	60 ± 5 kg/km
48J (4x12)	9.0 mm	60 ± 5 kg/km
72J (6x12)	9.0 mm	60 ± 5 kg/km
96J (7x12)	10.0 mm	80 ± 5 kg/km
144 (12x12)	12.5 mm	125 ± 5 kg/km

Ordering information

Index	Number of fibers	Product description
10233165.1	12J (1x12)	Cable FO BKT A-DQ(ZNB)2Y 12E 9/125 2x6 9/125 1500N
10233185.2	24J (2x12)	Cable FO BKT A-DQ(ZN)B2Y 24E 9/125 2x12E 9/125 1500N
102331B5.4	48J (4x12)	Cable FO BKT A-DQ(ZN)B2Y 48E 9/125 4x12E 9/125 1500N
102331G5.6	72J (6x12)	Cable FO BKT A-DQ(ZN)B2Y 72E 9/125 6x12E 9/125 1500N
102331H5.8	96J (8x12)	Cable FO BKT A-DQ(ZN)B2Y 96E 9/125 8x12E 9/125 2500N
102331J5.12	144J (12x12)	Cable FO BKT A-DQ(ZN)B2Y 144E 9/125 12x12E 9/125 3000N