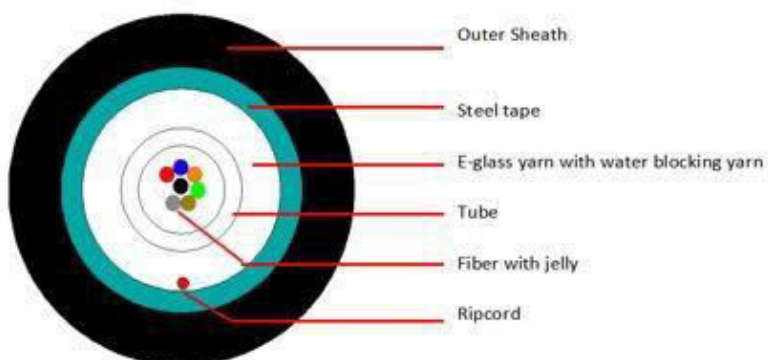


Outdoor A-DQ(ZN)SR2Y Loose Tube Fiber Optic Installation Cable



1. Cable Description

The fibers are positioned in a loose tube made of a high modulus plastic. The tubes are filled with Buffer tubes filled with thixotropic gel. E-glass yarn inside steel tape with PE outer jacket.

2. Application

This specification covers the general requirements of Center Tube Optical cable for aerial, overhead, duct.

3. Characteristics

1. Steel tape armored anti -rodent
2. Proven loose tube design for good performance.
3. Excellent mechanical and environmental characteristics
4. Small outer diameter, light weigh for easy installation
5. E-glass yarn to increase the tensile strength.
6. Each core will also be wrapped with 250-micron diameter sheath.
7. Compliant with Standard EN 60794.

4. Cable construction details

Number of fibers	4~24core	
Loosetube	material	PBT
	diameter	2.0mm+/-0.2mm (4~12core) 2.8mm+/-0.2mm (24core)
Filled buffer material	Thixotropic gel	
Strength member	E-glass yarn	
armored	steel tape	
Overall cable diameter	7.5±0.2mm	
Material	PE	
Cable weight per km	65kg/km	

Fiber color

Number of fiber per tube 12cores	1	2	3	4	5	6	
	Blue	Orange	Green	Brown	Grey	White	
	7	8	9	10	11	12	
	Red	Black	Yellow	Violet	Pink	Aqua	
Color 13~24 will be marked with a black tracer. For black color, none need marked black tracer, will use a nature color instead.							

5. Cable Mechanical characteristic

core	Cablediameter	weight
4~24	7.5±0.2mm	65kg/km
Temperaturerange	-40+70	----
MinBendingRadius(mm)	Longterm	10D
MinBending Radius(mm)	Shortterm	20D
Minallowable Tensile Strength(N)	Longterm	600
Minallowable Tensile Strength(N)	Shortterm	1200
Operation temperature (°C)	-40+70	
Installation temperature (°C)	-20+60	
Storage temperature (°C)	-40+70	

6. Fiber characteristic

Fiberstyle	Unit	SM G652	SM G652D	MM 50/125	MM 62.5/125	MM OM3-300
condition	nm	1310/1550	1310/1550	850/1300	850/1300	850/1300
attenuation	dB/km	≤	≤	≤	≤3.0/1.0	≤3.0/1.0
		0.36/0.23	0.36/0.23	3.0/1.0	----	----
Dispersion	1550nm m	Ps/(nm*km) ----	≤18	----	----	Dispersion
	1625nm m	Ps/(nm*km) ----	≤22	----	----	
Bandwidth	850nm	MHZ.KM	----	≥400	≥160	Bandwidth
	1300nm m	MHZ.KM	----	≥800	≥500	
Zerodispersionwavelength	nm	1300-1324	≥1302, ≤1322	----	----	≥1295, ≤1320
Zerodispersionslope	nm	≤0.092	≤0.091	----	----	----
PMDMaximumIndividualFibr		≤0.2	≤0.2	----	----	≤0.11
PMDDesignLinkValue	Ps(nm ² *km) m)	≤0.12	≤0.08	----	----	----
Fibre cutoff wavelength λc	nm	≥1180, ≤1330	≥1180, ≤1330	----	----	----
Cablesutoff wavelength λcc	nm	≤1260	≤1260	----	----	----
MFD	1310nm m	um	9.2+/-0.4	9.2+/-0.4	----	----
	1550nm m	um	10.4+/-0.8	10.4+/-0.8	----	----
Numerical Aperture(NA)		----	----	0.200+/-0.015	0.275+/-0.015	0.200+/-0.015

Step(meanofbidirectional measurement)	dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10
Irregularitiesoverfiber lengthand point	dB	≤0.05	≤0.05	≤0.10	≤0.10	≤0.10

7. Dicontinuity

Difference backscatter coefficient	dB/km	≤0.05	≤0.03	≤0.08	≤0.10	≤0.08
Attenuation uniformity	dB/km	≤0.01	≤0.01			
Corediameter	um			50+/-1.0	62.5+/-2.5	50+/-1.0
Cladding diameter	um	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1	125.0+/-0.1
Claddingnon-circularity	%	≤1.0	≤1.0	≤1.0	≤1.0	≤1.0
Coatingdiameter	um	250	250	250	250	250
Coating/chaffinch concentrically error	um	≤12.0	≤12.0	≤12.0	≤12.0	≤12.0
Coatingnoncircularity	%	≤6.0	≤6.0	≤6.0	≤6.0	≤6.0
Core/cladding concentricity error	um	≤0.6	≤0.6	≤1.5	≤1.5	≤1.5
Curl(radius)	um	≤4	≤4	---	---	---

8. Part Number Information

DK-39041-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,4cores,SM,PE
DK-39061-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,6cores,SM,PE
DK-39081-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,8cores,SM,PE
DK-39121-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,12cores,SM,PE
DK-39241-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,24cores,SM,PE