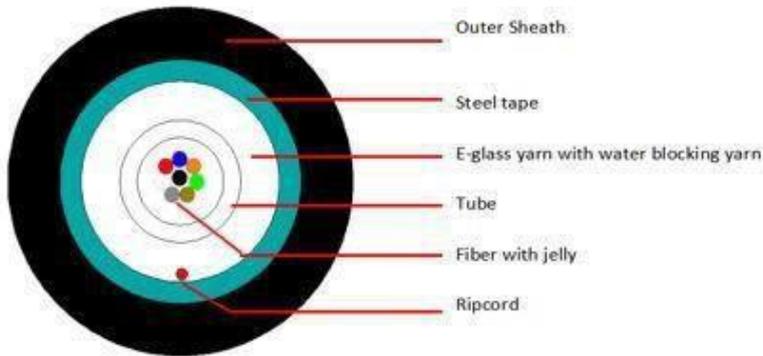


Outdoor A-DQ(ZN)SR2Y Loose Tube Fiber Optic Installation Cable



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

Numberof fibers	4~24core	
Loosetube	material	PBT
	diameter	2.0mm+/-0.2mm (4~12core) 2.8mm+/-0.2mm (24core)
Filledbuffermaterial	Thixotropicgel	
Strengthmember	E-glassyarn	
armored	steeltape	
Overallcablediameter	7.5±0.2mm	
Material	PE	
Cableweightperkm	65kg/km	

Fiber color

Numberoffiberper 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	
Color13~24willbemarkedwithablacktracer.Forblackcolornoneedmarkedblacktracer,will usenaturecolorinstead.							

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	Ps/(nm*km)	----	≤18	----	----	Dispersion
	1625nm	Ps/(nm*km)	----	≤22	----	----	
Bandwidth	850nm	MHZ.KM	----	----	≥400	≥160	Bandwidth
	1300nm	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)	≤0.12	≤0.08	----	----	----
Fibre cutoff wavelength λ _c		nm	≥1180, ≤1330	≥1180, ≤1330	----	----	----
Cablesutoff wavelength λ _{cc}		nm	≤1260	≤1260	----	----	----
MFD	1310nm	um	9.2+/-0.4	9.2+/-0.4	----	----	----
	1550nm	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 concentricity 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-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
DK-35041-3-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,4cores,OM3,PE
DK-35081-3-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,8cores,OM3,PE
DK-35121-3-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,12cores,OM3,PE
DK-35241-3-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,24cores,OM3,PE
DK-35041-4-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,4cores,OM4,PE
DK-35081-4-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,8cores,OM4,PE
DK-35121-4-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,12cores,OM4,PE
DK-35241-4-OS	FOUnitube(CentralLoose)OutdoorCableArmoredCable,24cores,OM4,PE