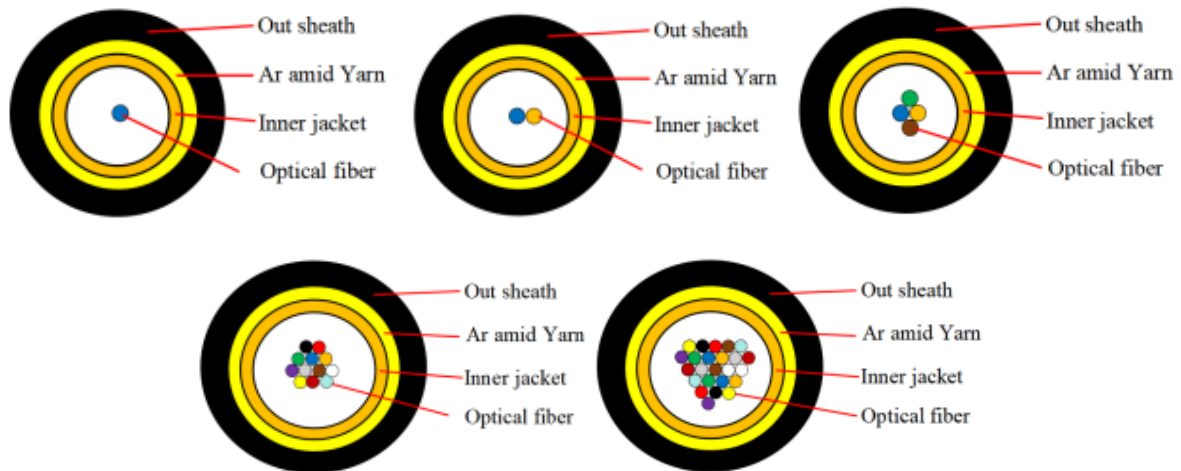


DW-O-D-x-A2-LSOH-1000



DATAWAY self-supporting cable with LSOH Eca jacket (UV resistant) and G.657A2 fiber type is designed for outdoor and indoor use in FTTx systems. The cable is reinforced with aramid fibers, lightweight construction with a small diameter. The construction provides very good tensile properties and also allows easy cable routing and fixing.

1. Cross Section of Cable



2. Fiber parameter

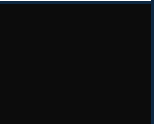
Items		Unit	Specification
Fiber Type			G.657A2
Attenuation Coefficient	1310nm	dB/km	≤0.35
	1383nm	dB/km	≤0.35
	1460nm	dB/km	≤0.25
	1550nm	dB/km	≤0.21
	1625nm	dB/km	≤0.23

A change in attenuation relative to the wavelength	1285~1330nm, 1310nm	dB/km	≤ 0.03
	1525~1575nm, 1550nm	dB/km	≤ 0.02
Dispersion in the wavelength range	1285~1340nm	ps/(nm·km)	-3.5~3.5
	1550nm	ps/(nm·km)	≤ 18
	1625nm	ps/(nm·km)	≤ 22
Zero dispersion wavelength(λ_0)		nm	1300~1324
Zero dispersion slope(S_0)		ps/(nm ² ·km)	≤ 0.092
Typical value of zero dispersion slope		ps/(nm ² ·km)	0.086
Polarization mode dispersion coefficient (PMD)	The maximum value of a single fiber	ps/ $\sqrt{\text{km}}$	≤ 0.1
	Fiber link value(M=20,Q=0.01%)	ps/ $\sqrt{\text{km}}$	≤ 0.06
	Typical values	ps/ $\sqrt{\text{km}}$	0.04
Cut-off wavelength of optical cable (λ_{cc})		nm	≤ 1260
Mode Field Diameter (MFD)	1310nm	μm	8.4~9.2
	1550nm	μm	9.3~10.3
Effective Group refractive index (N_{eff})	1310nm	--	1.466
	1550nm	--	1.467
Point discontinuity	1310nm	dB	≤ 0.05
	1550nm	dB	≤ 0.05
Cladding Diameter		μm	125.0 $\pm$ 0.7
Cladding Non-Circularity		%	≤ 0.7
Coating Diameter		μm	235~245
Cladding-Coating Concentricity Error		μm	≤ 12.0
Coating Non-Circularity		%	≤ 6.0
Core-Cladding Concentricity Error		μm	≤ 0.5
Warpage (radius)		m	≥ 4
Macro bending additional loss	10 turn, radius 15mm@1550nm	dB	≤ 0.03
	10 turn, radius 15mm@1625nm	dB	≤ 0.1
	1 turn, radius 7.5mm@1550nm	dB	≤ 0.5
	1 turn, radius 7.5mm@1625nm	dB	≤ 1.0
Peel force of coating	Typical average	N	1.5
	Peak	N	1.3~8.9

3.Cable Performance

Item		Parameters
Fiber Count		1-24
Colored coated fiber	Dimension	250μm±15μm
	Color	Blue、Orange、Green、Brown、Gray、White、Red、Black、Yellow、Purple、Pink、Aqua
	Color +Marking	Blue、Orange、Green、Brown、Gray、White、Red、Black、Yellow、Purple、Pink、Aqua; Blue、Orange、Green、Brown、Gray、White、Red、Black、Yellow、Purple、Pink、Aqua（+Marking）
Inner jacket	Material	PVC/LSZH
	Color	Yellow
Strength Member	Material	Aramide yarn（Import）
	Number	10*1100D
Outer jacket	Dimension 1F-4F	3.0mm±0.2mm
	Dimension 6F-24F	3.6mm±0.2mm
	Material	LSZH
	Color	Black

4.Fiber & Tube Color

NO.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
						
	7	8	9	10	11	12
	Red	Black	Yellow	Purple	Pink	Aqua
						

5.Mechanical and Environmental Characteristics

Item	Unit	Specifications
Tension (Long Term) (1F-24F)	N	240
Tension (Short Term) (1F-4F)	N	700
Tension (Short Term) (6F-24F)	N	900
Crush (Long Term) (1F-24F)	N/100mm	300
Crush (Short Term) (1F-4F)	N/100mm	700
Crush (Short Term) (6F-24F)	N/100mm	900
Min. Bend Radius (Static)	mm	10D
Min.Bend Radius (Dynamic)	mm	20D
Installation Temperature	°C	-5 ~ +40
Transport/storage/service temperature	°C	-20 ~ +60