

## OADSS-48OS2HDPE

### Description

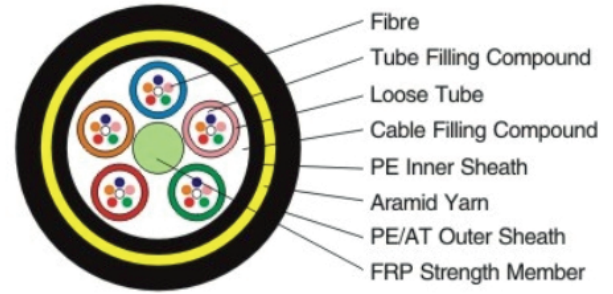
Osilan's Outdoor All-Dielectric Self-supporting cable, Double Jacket with Aramid Yarn, Is the optimal choice for any backbone in Outside Plant (OSP) Installations. The Outdoor All-Dielectric Self-supporting design is perfect for Aerial Applications and all outdoor installations. The cable quality and structure offer reliable transmission performance with additional crush and rodent protection.

### Features

- Double Jacket, All-Dielectric cable.
- Aramid Yarn provide Water-blocking and rodent proof.
- Single Fibre Reinforced Plastic (FRP) as a central strength member.
- Gel-Filled Loose Tubes – to block the ingress of water.

### Application

- Suitable for Aerial Applications.
- Suitable for Direct bury & outdoor duct installation.
- Suitable for installation in harsh environments.



### Standards

- ISO 11801 2nd Edition
- IEC 60794-1
- EN 50173-1

#### MECHANICAL AND ENVIRONMENTAL CHARACTERISTICS

REF. OUTER DIAMETER (MM)	REF. WEIGHT (KG/KM)		REC.DAILY MAX WORKING TENSION (KN)	MAX ALLOWABLE WORKING TENSION (KN)	STRENGTH MEMBER CSA MM <sup>2</sup>	MOULUS OF ALASTICITY (KN/MM <sup>2</sup> )	HEAT EXPANSION COEFFICIENT (X10 <sup>-6</sup> /K)	SUITABLE SPAN (NESC STANDARD.M)			
	HDPE SHEATH	AT SHEATH						A	B	C	D
12.5	5/4	136	4	20	4.6	7.6	1.8	160	100	140	100
13	5/11	142	6	15	7.6	8.3	1.5	230	150	200	150
13.3	137	148	8	20	10.35	9.45	1.3	300	200	290	200
13.6	145	156	10	24	13.8	10.8	1.2	370	250	350	250
13.8	147	159	12	30	14.3	11.8	1	420	280	400	280
14.5	164	177	15	36	18.4	13.6	0.9	480	320	460	320
14.9	171	185	18	45	22	16.4	0.6	570	380	550	380
15.1	179	193	22	53	26.4	18	0.3	670	460	650	460
15.5	190	204	26	60	32.2	19.1	0.1	750	530	750	510
15.6	194	208	28	70	33	19.6	0.1	800	560	800	560
16.3	211	226	34	85	40	20.1	0.1	880	650	880	650
16.8	226	242	41	103	48	24	-0.4	1000	750	1000	760
17.2	236	253	45	108	51	25.1	-0.5	1100	800	1100	830
17.9	249	266	50	120	58.8	26.1	-0.8	1180	880	1180	900

#### Cable Parameters

Items	Specifications
Loose Tube	1.95mm±0.05mm
Loose Tube Material	PBT
Outer Jacket Material	HDPE
Outer Jacket Colour	UV Black
Temperature range	-20°C to +60°C
Operating Temperature	-40°C to +70°C
Storage Temperature	-40°C to +70°C

#### Fibre Parameters

Items	Specifications
Cladding Diameter	124.8±0.7 µm
Cladding Non-Circularity	≤0.7%
Core-Cladding Concentricity Error	≤0.5 µm
Coating Diameter	245±5 µm
Coating Non-Circularity	≤6.0%
Cladding-Coating Concentricity Error	≤12.0 µm
ITU-T Standards	G.652.D for SM G.651.1 for MM
Attenuation	1310nm ≤0.36 dB/km
	1550nm ≤0.25 dB/km
	850 nm ≤3 dB/km
	1300nm ≤1 dB/km

#### ORDERING INFORMATION

Part No.	Description
OADSS-48OS2HDPE	Outdoor All-Dielectric Self-supporting cable, Double Jacket with Aramid Yarn, 48 fibre core, OS2, HDPE