

DESCRIPTION

Bellcom OptiMax 24-core ADSS drop fiber is an all-dielectric self-supporting flat loose-tube cable for aerial access and drop installations. It uses twenty-four color-coded Corning Photonic OS2 fibers in two gel-filled tubes, reinforced with aramid yarn and FRP strength members, and protected by a black LSZH outer jacket for indoor and outdoor deployment.

KEY FEATURES

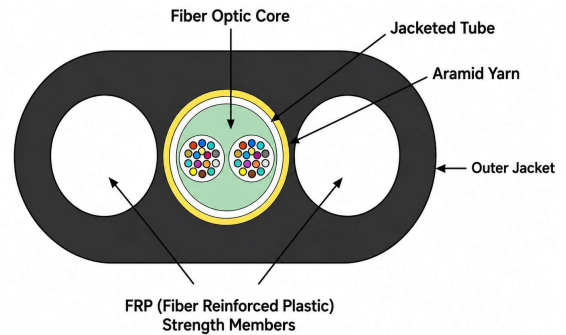
- 24 color-coded single-mode OS2 fibers (9/125 µm)
- All-dielectric self-supporting flat drop construction
- Corning Photonic optical fiber
- Gel-filled loose tube for water blocking
- Aramid yarn and FRP dielectric strength members
- Black LSZH jacket suitable for indoor and outdoor use
- IEC 60332-1 / IEC 60332-3 and RoHS compliant

APPLICATIONS

- Aerial drop and access links
- FTTH, FTTB and FTTx distribution
- Campus and building-to-building networks
- Telecommunications and data networks
- Indoor and outdoor transition installations

PRODUCT SUMMARY

Property	Specification
Product Type	ADSS Flat Drop Fiber Cable
Fiber Type	Single-Mode OS2 (9/125 µm)
Fiber Count	24
Construction	Loose Tube, Gel-Filled
Strength Members	Aramid Yarn + FRP
Jacket	LSZH, Black
Outer Dimensions	7.8 x 4.3 ±0.3 mm
SKU	BFSEN924

ADSS FLAT DROP CABLE CONSTRUCTION**CONSTRUCTION & CHARACTERISTICS**

Component	Property	Specification
Fiber	Type / Standard	Single-Mode OS2 / 9/125 µm
Fiber	Count / Manufacturer	24 / Corning Photonic
Fiber	Cladding	125 ±1.0 µm; non-circularity ≤1.0%
Fiber	Coating Diameter	245 ±1.0 µm
Loose Tube	Count / Fill	2 / Gel-filled
Strength	Aramid Yarn	Included
Strength	FRP Members	All-dielectric strength members
Jacket	Material	LSZH
Jacket	Color	Black
Cable	Outer Dimensions	7.8 x 4.3 ±0.3 mm
Cable	Nominal Weight	35 kg/km
Mechanical	Minimum Bend Radius	Dynamic 20H / Static 10H
Mechanical	Maximum Tension	500 N short term / 200 N long term
Mechanical	Crush Resistance	1000 N/100 mm² short / 300 N/100 mm² long
Mechanical	Maximum Rated Cable Load	1335 N
Environmental	Operating / Storage Temperature	-40 to +70 °C / -40 to +70 °C

FIBER COLOR CONFIGURATION

Fiber	Color	Fiber	Color
Fiber 1/13	Blue	Fiber 7/19	Red
Fiber 2/14	Orange	Fiber 8/20	Black
Fiber 3/15	Green	Fiber 9/21	Yellow
Fiber 4/16	Brown	Fiber 10/22	Violet
Fiber 5/17	Gray	Fiber 11/23	Rose/Pink
Fiber 6/18	White	Fiber 12/24	Aqua

Twenty-four standards-based color-coded fibers are arranged in two gel-filled loose tubes. The color sequence supports efficient identification during splicing, testing and field maintenance.

OPTICAL PERFORMANCE

Property	Specification
Optical Fiber	Corning Photonic
Fiber Standard	OS2, 9/125 μm
Operating Wavelengths	1310 / 1550 nm
Attenuation at 1310 nm	≤ 0.35 dB/km
Attenuation at 1550 nm	≤ 0.20 dB/km
Zero Dispersion Wavelength	1304~1324 nm
Dispersion at 1550 nm	≤ 18 ps/(nm·km)
Dispersion at 1625 nm	≤ 22 ps/(nm·km)

AERIAL SPAN & INSTALLATION DATA

Storm Loading Region	1% Sag - Max Span	1% Sag - Installation Tension	3% Sag - Max Span / Tension
Heavy	42 m	190 N	53 m / 80 N
Medium	80 m	350 N	108 m / 160 N
Light	90 m	400 N	120 m / 185 N

Installation values are based on the storm loading regions and midspan sag conditions shown above.

STANDARDS & APPROVALS

- IEC 60332-1 flame propagation compliance
- IEC 60332-3 flame spread compliance
- RoHS compliant
- LSZH cable construction
- All-dielectric self-supporting (ADSS) design
- Single-mode OS2, 9/125 μm fiber

ORDERING INFORMATION

SKU	Product Description
BFSEN924	24-Core ADSS Drop Fiber Cable, OS2, LSZH, Black

Installation span and cable construction should be confirmed against project loading requirements.