

Fiber Optic Cables

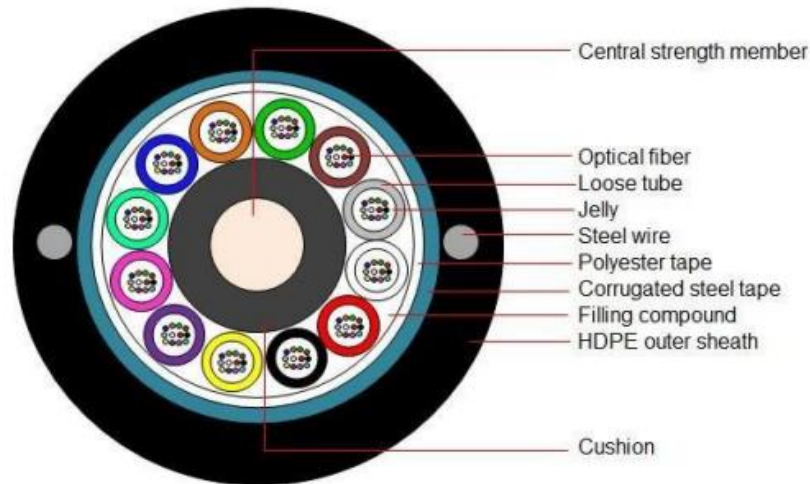
Technical data pages by Spectrum

Outdoor Armored with Two Steel Wire, Single Jacket
144 F, Single-mode OS2



Part Number: 0233144

Traditional Cable Single Jacket with 2 Steel Wires



Loose tube construction, tubes jelly filled, elements (tubes and filler rods) laid up around non-metallic central strength member with cushion if necessary, filling compound filled in the apertures of the cable core, polyester tape wrapped longitudinally, then corrugated steel tape armored and HDPE outer sheath incorporating with two parallel steel wires.

Key Structural Features

- Fiber Structure: Multi-loose-tube construction with gel-filled tubes to protect fibers from moisture and hydrolysis.
- Central Strength Member: Non-metallic Fiber Reinforced Polymer (FRP) central strength member.
- Armor: Longitudinal Corrugated Steel Tape (PSP) armor providing crush and impact resistance.
- Tensile Strength: Two parallel steel wires embedded in the outer sheath acting as peripheral strength members.
- Outer Jacket: UV-resistant High-Density Polyethylene (HDPE) single jacket.

Applications

- Long-distance communication and local trunk networks.
- Aerial, duct, and direct-buried environments.

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Technical Descriptions

General Specifications	
Environment	Outdoor
Application	Aerial, Direct Buried, Duct
Cable Type	Loose Tube
Product Type	Armored
Fiber Category	Single-mode (OS2)

Cable Design	
Central Element	Dielectric
Fiber Count	144
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Maximum Fibers per Tube	12
Number of Active Tubes	12
Central strength member	FRP
Peripheral strength member	Two steel wires
Buffer Tube Diameter	2.5 mm
Number of Ripcords	2
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Outer Jacket Material	HDPE
Outer Jacket Color	Black

Optical Characteristics (cabled)	
Fiber Type	Single-mode
Fiber Core Diameter	9/125 µm
Fiber Category	OS2 (ITU G652D / G657-A1 / G657-A2)
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.35 dB/km / 0.35 dB/km / 0.25 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

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Technical Descriptions

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Mechanical Characteristics Cable	
Max. Tensile Strengths, Short-Term	2700 N
Max. Tensile Strengths, Long-Term	890 N
Weight	213 kg/km
Nominal Outer Diameter	15.2 mm