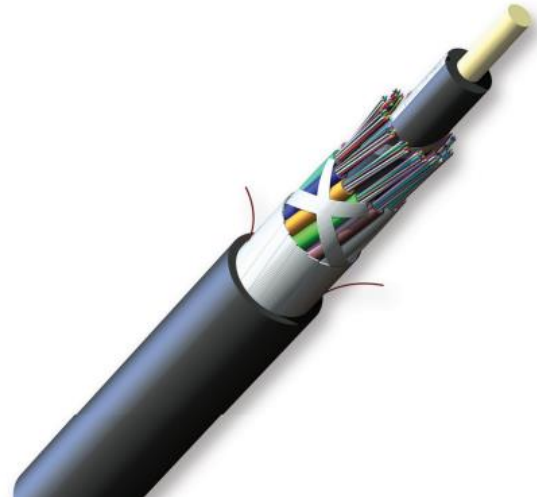


Loose Tube, Gel-Filled, Single Jacket, Single-Armored Cable

144 F, Single-mode OS2

Spectrum Cable & Systems armoured loose tube cables are designed for outdoor use for campus, city and intercity backbones in duct installations. The loose -tube cable construction, by isolating the fibres from installations and environmental rigors, provides stable and highly reliable transmission parameters. The 2.0 mm buffer tubes and fibres in each tube are colour -coded for quick and easy identification. The SZ -stranded construction further reduces installation and environmental influences on the transmission parameters and allows mid -span access. These slim and lightweight cables are designed with a 1.1mm HDPE outer jacket for easy installation in conduits and ducts.



Features and Benefits

2.0 mm buffer tubes

Smaller cable diameter

1.1 mm HDPE jacket thickness

Smaller cable diameter with rugged design for easy blowing in smaller ducts

Laminated glass yarns

For improved rodent resistance

All-dielectric cable construction

Requires no grounding or bonding

UV and microbe resistant

Can be installed in ducts

Waterblocking technology

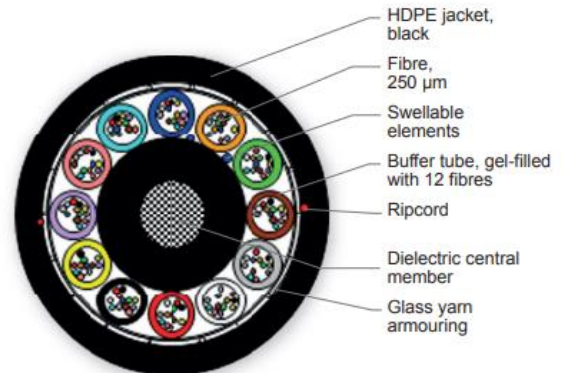
Outside Plant (OSP) applications

Fibres/buffer tubes colour coded to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

Dry cable core by means of water-swellable tape and elements

Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications



Standards

Common Installations

Outdoor lashed aerial, duct and direct-buried; indoor when installed according

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Specifications

General Specifications

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

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)

Cable Design

Central element	Jacketed GRP
Central element diameter	6.0mm(3.0mm GRP with PE overcoat)
Fibre count	144
Fibre colouring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibres per tube	12
Number of tube positions	12
Number of active tubes	12
Buffer tube colour coding	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer tube diameter	2.0mm
Tape	Water-swellaable
Number of ripcords	2
Outer jacket material	High Density Polyethylene(HDPE)
Outer jacket colour	Black
Outer jacket nominal thickness	1.1mm

Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	4000 N
Max. Tensile Strengths, Long-Term	1500 N
Weight	130 kg/km
Nominal Outer Diameter	12.6 mm (0.48 in)

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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Single-mode
Fiber Core Diameter	8.2 μm
Fiber Category	OS2 (ITU G652D / G657-A1 / G657-A2)
Fiber Code	E
Performance Option Code	00
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

Ordering Information

Part Number	8301743-144
Product Description	Spectrum Cables & Systems UK Loose Tube, Gel-Filled, Single-Jacket, Single-Armored Cable, 144 F, Single-mode (OS2)

Notes



Spectrum Cables & Systems

www.spectrum-sys.uk

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