VEYRA
FIBRE

Unitube
Fibre Optic Cables

Polyethylene Jacket
Outdoor rated, direct buried

Nylon Jacket
Outdoor rated, termite resistant

LSZH Jacket
I/O rated, flame retardant

www.veyrafibre.com.au
info@veyrafibre.com.au

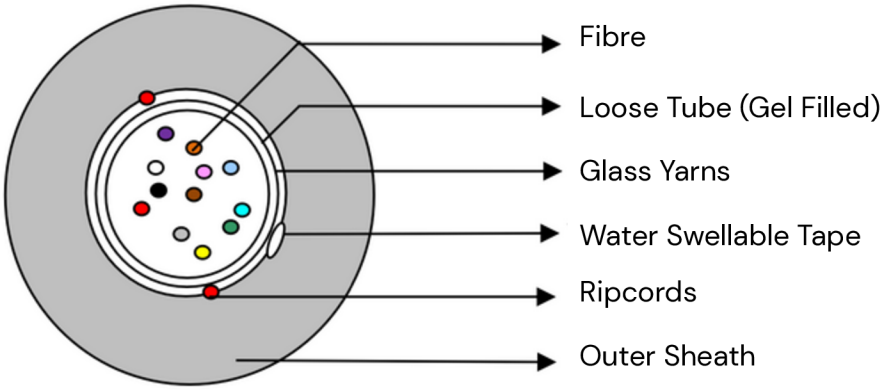
VEYRA FIBRE

PRODUCT SPECIFICATION

LT Unitube PE Jacket Fibre Optic Cable

00xx-xx-01UT2-000-BK

The Unitube PE Jacket Fibre Optic Cable is a robust and versatile solution designed for outdoor use in ducts, direct burial, or aerial drop applications. Featuring a central loose tube construction, the optical fibres are housed in water-blocked loose tubes. The glass roving yarn armor provides added protection, while the polyethylene sheath offers external protection from environmental factors, making it suitable for campus-wide or building-to-building fiber installations.



**Representative diagram, not to scale*

Key Features

- The glass roving yarn armor provides effective resistance against rodents.
- Water-blocking agents inside the loose tubes prevent water ingress
- The polyethylene sheath and rugged design ensure the cable is flexible yet resistant to tensile and crush forces.

Applications

- Ideal for installation in outdoor ducts, aerial drop systems, and direct burial applications.
- Perfect for connecting enterprise campuses, or telecom access and distribution networks.
- Designed for use in environments where cables are exposed to physical stress, UV radiation, and moisture

Cable Construction

Fibre Count	6/12F	24F
Number of fibres per tube	6/12	24
Cable Diameter	6.6 ± 0.5 mm	7.6 ± 0.5 mm
Cable Weight	40.0 ± 10 kg/km	50.0 ± 10 kg/km
Number of loose tubes	1	
Moisture Barrier	Water Blocking Tape	
Peripheral Strength Member	Glass Yarn	
Outer Sheath	HDPE – Black – UV Stabilized	
Ripcords - Polyester	2	

Colour Coding - Fibre and Loose Tubes

Fibre Count	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Fibre Colour EIA/TIA – 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq
Fibre Count	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
Fibre Colour EIA/TIA – 598	Bl*	Or*	Gr*	Br*	Sl*	Wh*	Rd*	Bk*	Yl*	Vi	Pk*	Aq*

*Ring marking on fibres from 13-24 at every 50 mm distance. Natural ring marked fibre instead black fibre

Cable Characteristics

Tensile Strength	Short Term : 1000 N	IEC-60794-1-21-E1
Crush Resistance	1000 N/ 100 x 100 mm	IEC-60794-1-21-E3
Impact Strength	5 Nm	IEC-60794-1-21-E4
Torsion	± 180 °	IEC-60794-1-21-E7
Minimum Bend Radius	20 x D	IEC-60794-1-21-E11
Water Penetration Test	1 m water head, 3 m sample, 24 hours	IEC-60794-1-22-F5
Environmental Performance	Installation -10 °C to + 70 °C Operation -40 °C to + 70 °C Storage. -40 °C to + 70 °C	IEC-60794-1-22-F1

Fibre Characteristics

Fibre Type	ITU-T G.652.D
Attenuation	1310 nm ≤ 0.36 dB/km 1550 nm ≤ 0.23 dB/km
Chromatic Dispersion	1285-1330 nm ≤ 3.5 ps/nm.km 1550 nm ≤ 18 ps/nm.km
PMD (Max. Individual)	≤ 0.2 ps/√km
PMD (Link design value)	≤ 0.06 ps/√km
Cable cut off wavelength λcc	≤ 1260 nm
MFD	1310 nm 9.2 ± 0.4 µm 1550 nm 10.4 ± 0.5 µm

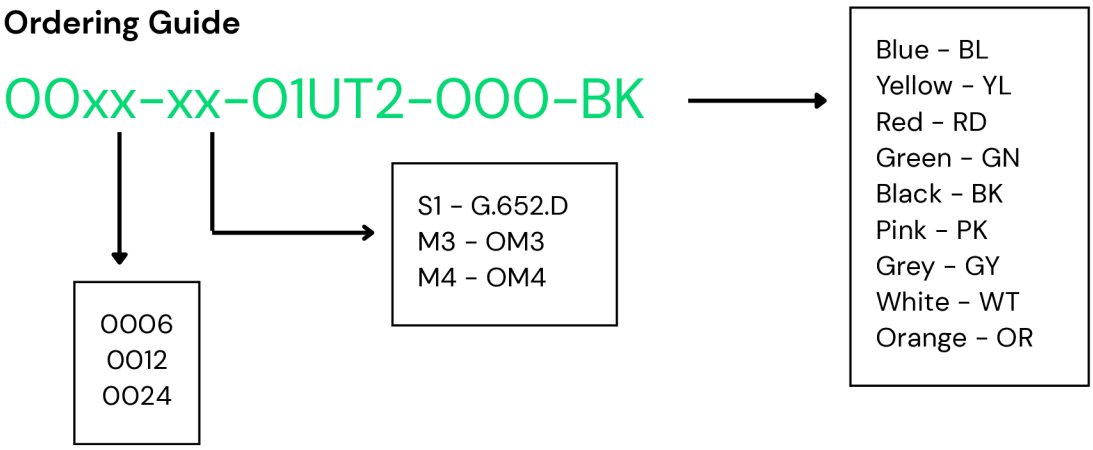
Core-Cladding Concentricity Error	≤ 0.5 µm
Cladding Diameter	125 ± 0.7 µm
Cladding Non Circularity	≤ 0.8 %
Coating Diameter	242 ± 5 µm

Fibre Type	OM3		OM4	
Attenuation	850 nm 1300 nm	≤ 3.0 dB/km ≤ 1.5 dB/km	850 nm 1300 nm	≤ 3.0 dB/km ≤ 1.5 dB/km
Bandwidth	850 nm 1300 nm	≥ 1500 MHz.km ≥ 500 MHz.km	850 nm 1300 nm	≥ 3500 MHz.km ≥ 500 MHz.km
Core Diameter	50.0 ± 2.5 µm			
Core-Cladding Concentricity Error	≤ 1.0 µm			
Cladding Diameter	125 ± 1.0 µm			
Cladding Non Circularity	≤ 1.0 %			
Coating Diameter	242 ± 7 µm			

Applicable Standards

IEC 60793, IEC 60794, ITU-T, RoHS, REACH, AS/CA S008, AS 1049, AS 2857, AS/NZS ISO 9001

Ordering Guide



VEYRA
FIBRE

Unitube
Fibre Optic Cables

Polyethylene Jacket
Outdoor rated, direct buried

Nylon Jacket
Outdoor rated, termite resistant

LSZH Jacket
I/O rated, flame retardant

www.veyrafibre.com.au
info@veyrafibre.com.au

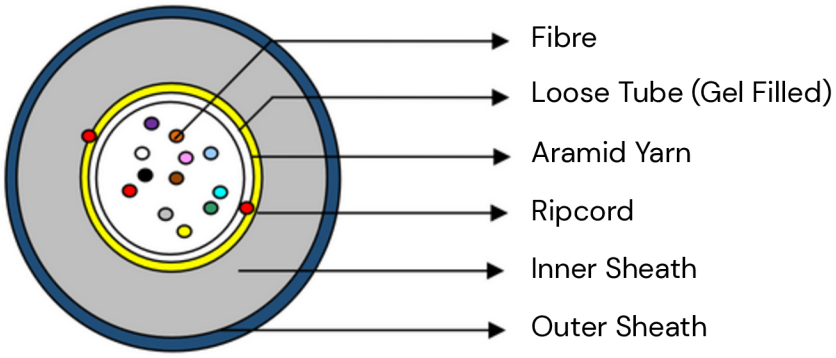
VEYRA FIBRE

PRODUCT SPECIFICATION

LT Unitube Nylon Jacket Fibre Optic Cable

00xx-xx-01UT1-000-xx

This unitube fibre optic cable is designed for outdoor installations in ducts, trays, and conduits. It features colour-coded optical fibres within a central gel-filled loose tube for water blocking and fibre protection. Aramid yarn provides dielectric tensile strength, while a dual-sheath system—polyethylene inner layer and nylon outer jacket—offers resistance to UV, abrasion, and termites. Its compact, flexible construction ensures durability and ease of handling in demanding environments.



**Representative diagram, not to scale*

Key Features

- Unitube Gel-Filled Design: Compact with integrated water blocking
- Aramid Yarn Strength Member: High tensile performance
- Polyethylene + Nylon Jacket: UV, abrasion, and termite resistant

Applications

- Outdoor duct and tray installations
- Utility and telecom distribution networks
- UV- and termite-prone environments
- Access and metro backbone routes
- Industrial and campus fibre runs

Cable Construction

Fibre Count	Number of Fibres per Tube	Number of Loose Tubes - PBT	Cable Diameter	Cable Weight
6	6	1	5.8 ± 0.5 mm	28.0 ± 5 kg/km
12	12	1	5.8 ± 0.5 mm	28.0 ± 5 kg/km
24	24	1	6.8 ± 0.5 mm	35.0 ± 5 kg/km
Moisture Barrier		Water swellable yarn		
Peripheral Strength Member		Aramid Yarn		
Inner Sheath		PE - Black		
Outer Sheath and Colour		Nylon - Blue* – UV Stabilized *other jacket colours available on request		
Number Of Ripcords		2 - Polyester		

Colour Coding - Fibre and Loose Tubes

Fibre Count	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Fibre Colour EIA/TIA – 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq
Fibre Count	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
Fibre Colour EIA/TIA – 598	Bl*	Or*	Gr*	Br*	Sl*	Wh*	Rd*	Bk*	Yl*	Vi	Pk*	Aq*

*Ring marking on fibres from 13-24 at every 50 mm distance. Natural ring marked fibre instead black fibre

Cable Characteristics

Tensile Strength	Short Term: 1000 N	IEC-60794-1-21-E1
Crush Resistance	Short Term: 2000 N/100 mm Long Term: 1000 N/100 mm	IEC-60794-1-21-E3
Impact Strength	2 N.m	IEC-60794-1-21-E4
Torsion	± 180 °	IEC-60794-1-21-E7
Minimum Bend Radius	20 x D	IEC-60794-1-21-E11
Water Penetration Test	1 m water head, 3 m sample, 24 hours	IEC-60794-1-22-F5
Environmental Performance	Installation -0 °C to + 50 °C Operation -10 °C to + 70 °C Storage. -20 °C to + 70 °C	IEC-60794-1-22-F1

Fibre Characteristics

Fibre Type	ITU-T G.652.D
Attenuation (Cabled)	1310 nm ≤ 0.35 dB/km 1550 nm ≤ 0.23 dB/km
Chromatic Dispersion	1285-1330 nm ≤ 3.5 ps/nm.km 1550 nm ≤ 18 ps/nm.km
PMD (Max. Individual)	≤ 0.2 ps/√km
PMD (Link design value)	≤ 0.06 ps/√km
Cable cut off wavelength λcc	≤ 1260 nm
MFD	1310 nm 9.2 ± 0.4 µm 1550 nm 10.4 ± 0.5 µm

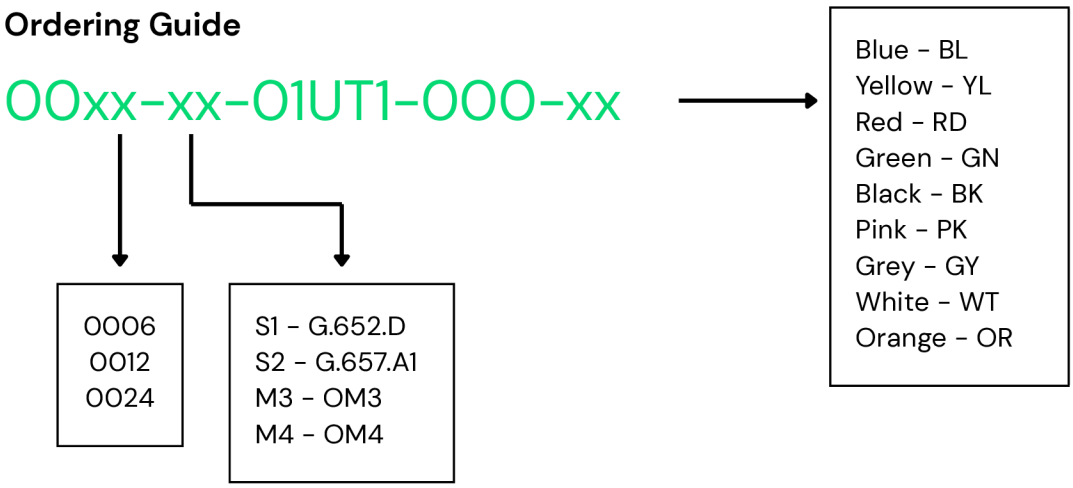
Core-Cladding Concentricity Error	≤ 0.5 µm
Cladding Diameter	125 ± 0.7 µm
Cladding Non Circularity	≤ 0.8 %
Coating Diameter	242 ± 5 µm

Fibre Type	OM3		OM4	
Attenuation	850 nm 1300 nm	≤ 3.0 dB/km ≤ 1.5 dB/km	850 nm 1300 nm	≤ 3.0 dB/km ≤ 1.5 dB/km
Bandwidth	850 nm 1300 nm	≥ 1500 MHz.km ≥ 500 MHz.km	850 nm 1300 nm	≥ 3500 MHz.km ≥ 500 MHz.km
Core Diameter	50.0 ± 2.5 µm			
Core-Cladding Concentricity Error	≤ 1.0 µm			
Cladding Diameter	125 ± 1.0 µm			
Cladding Non Circularity	≤ 1.0 %			
Coating Diameter	242 ± 7 µm			

Applicable Standards

IEC 60793, IEC 60794, ITU-T, RoHS, REACH, AS/CA S008, AS 1049, AS 2857, AS/NZS ISO 9001

Ordering Guide



VEYRA
FIBRE

Unitube
Fibre Optic Cables

Polyethylene Jacket
Outdoor rated, direct buried

Nylon Jacket
Outdoor rated, termite resistant

LSZH Jacket
I/O rated, flame retardant

www.veyrafibre.com.au

info@veyrafibre.com.au

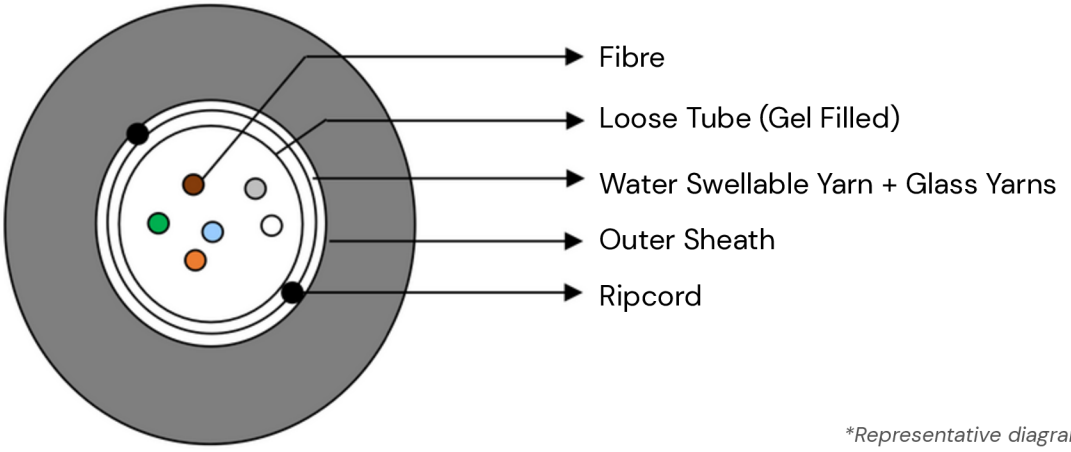
VEYRA FIBRE

PRODUCT SPECIFICATION

LT Unitube Flame-Retardant Fibre Optic Cable

00xx-xx-01UT3-0F10-xx

This unitube single jacket indoor fibre optic cable is designed for use in campus distribution and intra-building links. It features optical fibres housed in a central gel-filled loose tube, providing moisture resistance and stable fibre protection. Dielectric glass yarns are applied as peripheral strength members, delivering tensile strength and basic rodent deterrence. The outer jacket is made of LSZH (Low Smoke Zero Halogen) material, offering flame retardance and low smoke emission - ideal for enclosed spaces and indoor deployments.



Representative diagram, not to scale

Key Features

- Gel-Filled Loose Tube for moisture resistance and fibre protection
- Dielectric Glass Yarn Strength Members provide rodent resistance
- LSZH Outer Sheath: Flame-retardant and halogen-free for safe indoor use, UV stabilised for outdoor exposure.

Applications

- Indoor and riser backbone cabling
- Intra-building and campus fibre networks
- Data distribution in office, commercial, or institutional buildings
- FTTH/FTTB drop cable in shared indoor pathways

Cable Construction

Fibre Count	Number of Fibres per Tube	Number of Loose Tubes - PBT	Cable Diameter	Cable Weight
6	6	1	6.6 mm ± 5 %	50 ± 10 kg/km
12	12	1	6.6 mm ± 5 %	50 ± 10 kg/km
24	24	1	7.6 mm ± 5 %	65 ± 10 kg/km
Moisture Barrier		Water Blocking Yarns		
Peripheral Strength Member		Glass Yarn		
Outer Sheath and Colour		LSZH - UV Resistant (Black*) *other jacket colours available on request		
Number Of Ripcords		2 - Polyester		

Colour Coding - Fibre and Loose Tubes

Fibre Count	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**
Fibre Colour EIA/TIA – 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq
Fibre Count	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**
Fibre Colour EIA/TIA – 598	Bl*	Or*	Gr*	Br*	Sl*	Wh*	Rd*	Bk*	Yl*	Vi	Pk*	Aq*

*Ring marking on fibres from 13-24 at every 50 mm distance. Natural ring marked fibre instead black fibre

Cable Characteristics

Max. Pulling Tensile Strength	Short Term: 1000 N	IEC-60794-1-21-E1
Crush Resistance	1000 N/100 mm	IEC-60794-1-21-E3
Impact Strength	5 N.m	IEC-60794-1-21-E4
Torsion	± 180 °	IEC-60794-1-21-E7
Minimum Bend Radius	20 x D	IEC-60794-1-21-E11
Environmental Performance	Installation -10 °C to + 60 °C Operation -30 °C to + 70 °C Storage. -40 °C to + 70 °C	IEC-60794-1-22-F1
Flame Retardant	IEC 60332-1-2	

Fibre Characteristics

Fibre Type	ITU-T G.652.D
Attenuation (Cabled)	1310 nm ≤ 0.36 dB/km 1550 nm ≤ 0.23 dB/km
Chromatic Dispersion	1285-1330 nm ≤ 3.5 ps/nm.km 1550 nm ≤ 18 ps/nm.km
PMD (Max. Individual)	≤ 0.2 ps/√km
PMD (Link design value)	≤ 0.06 ps/√km
Cable cut off wavelength λcc	≤ 1260 nm
MFD	1310 nm 9.2 ± 0.4 µm 1550 nm 10.4 ± 0.5 µm

Core-Cladding Concentricity Error	≤ 0.5 µm
Cladding Diameter	125 ± 0.7 µm
Cladding Non Circularity	≤ 0.8 %
Coating Diameter	242 ± 5 µm

Fibre Type	OM3		OM4	
Attenuation	850 nm 1300 nm	≤ 3.0 dB/km ≤ 1.5 dB/km	850 nm 1300 nm	≤ 3.0 dB/km ≤ 1.5 dB/km
Bandwidth	850 nm 1300 nm	≥ 1500 MHz.km ≥ 500 MHz.km	850 nm 1300 nm	≥ 3500 MHz.km ≥ 500 MHz.km
Core Diameter	50.0 ± 2.5 µm			
Core-Cladding Concentricity Error	≤ 1.0 µm			
Cladding Diameter	125 ± 1.0 µm			
Cladding Non Circularity	≤ 1.0 %			
Coating Diameter	242 ± 7 µm			

Applicable Standards

IEC 60793, IEC 60794, ITU-T, RoHS, REACH, AS/CA S008, AS 1049, AS 2857, AS/NZS ISO 9001

Ordering Guide