

# Rodent Proof Fibre Optic Cables

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Dielectric Armoured  
(PE+Nylon+FRP+PE)

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(PE+FRP+PE+Nylon)

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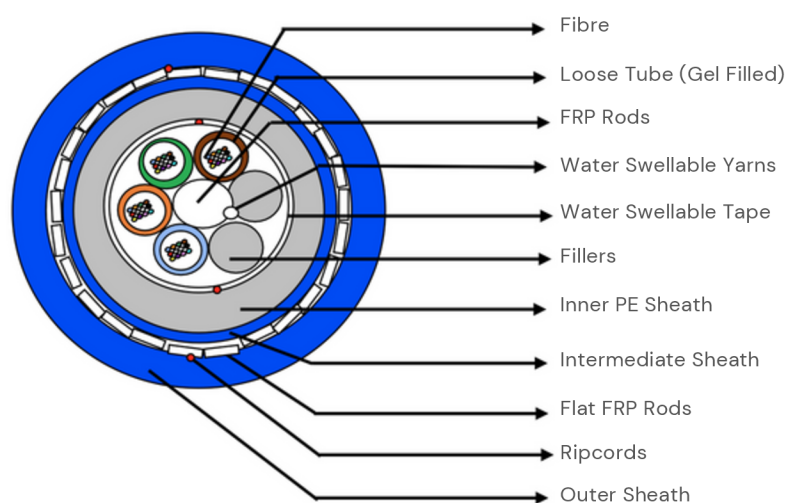
Steel Tape Armoured  
(PE+ECCS Tape+PE+PA)



# Dielectric Armoured (PE+PA+FRP+PE) Fibre Optic Cable

Oxxx-xx-xxMTD2-YFOO-BL

The Dielectric Armoured Fiber Optic Cable is designed for demanding outside plant (OSP) environments where mechanical strength and environmental durability are critical. This cable features a stranded loose tube construction, with optical fibres housed in water-blocked buffer tubes laid around a central fibre reinforced plastic (FRP) strength member. A flat FRP armour layer is applied over a protective nylon sheath, enhancing crush resistance. The cable is further protected by a rugged, UV-stabilized polyethylene outer jacket, ensuring long-term performance in harsh conditions.



*\*Representative diagram, not to scale*

## Key Features

- **UV, Rodent & Termite Resistant:** Engineered to withstand long-term outdoor exposure and pest-infested environments
- **FRP Central Strength Member & Flat FRP Armor:** Provides excellent tensile strength and enhanced crush resistance

## Applications and Benefits

- **Long-Term Reliability:** Multi-layered armouring and jacket system provide lasting protection against environmental stressors and physical impacts, making it suitable for Direct Burial installation

## Cable Construction

Fibre Count	Number of Fibres per Tube	Number of Loose Tubes – PBT	Number of Fillers – HDPE – Black	Central Strength Member	Cable Diameter	Cable Weight
6	6	1	5	FRP Rod	14.0 mm ± 5 %	166 kg/km ± 10%
12	12	1	5	FRP Rod	14.0 mm ± 5 %	166 kg/km ± 10%
24	12	2	4	FRP Rod	14.0 mm ± 5 %	166 kg/km ± 10%
48	12	4	2	FRP Rod	14.0 mm ± 5 %	166 kg/km ± 10%
72	12	6	–	FRP Rod	14.0 mm ± 5 %	166 kg/km ± 10%
96	12	8	–	FRP Rod	15.5 mm ± 5 %	215 kg/km ± 10%
144	12	12	–	FRP Rod PE Upcoated	18.0 mm ± 5 %	280 kg/km ± 10%
Loose Tube OD			2.0 ± 0.1 mm			
Moisture Barrier			Water Swellable Yarn			
Core Wrapping			Water Swellable Tape			
Inner Sheath			HDPE – Black – UV Stabilized			
Intermediate Sheath			Nylon – Blue – UV Stabilized			
Armouring			Flat FRP Rods			
Outer Sheath			HDPE – Blue* – UV Stabilized *other outer jacket colours available on request – see ordering guide for details			
Number of Ripcords			4 – 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

Tube Count	1	2	3	4	5	6	7	8	9	10	11	12
Tube Colour EIA/TIA – 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq

Cable Performance

Tensile Strength	4000 N	IEC-60794-1-21-E1
Crush Resistance	4000 N / 100 mm x 100 mm	IEC-60794-1-21-E3
Impact Strength	20 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
Drip Test	30 cm , 70 °C, 24 hr	IEC-60794-1-21-E14
Environmental Performance	Installation -10 °C to + 70 °C Operation -30 ° C to + 60°C Storage. -40 °C to + 70 °C	IEC-60794-1-22-F1

## Fibre Characteristics

Fibre Type	ITU-T G.652D	
Attenuation (Cabled)	1310 nm 1550 nm 1625 nm	$\leq 0.35$ dB/km $\leq 0.21$ dB/km $\leq 0.23$ dB/km
Chromatic Dispersion	1285–1330 nm 1550 nm	$\leq 3.5$ ps/nm.km $\leq 18$ ps/nm.km
PMD (Max. Individual)	$\leq 0.2$ ps/ $\sqrt{\text{km}}$	
PMD (Link design value)	$\leq 0.06$ ps/ $\sqrt{\text{km}}$	
Cable cut off wavelength $\lambda_{cc}$	$\leq 1260$ nm	
MFD	1310 nm 1550 nm	$9.2 \pm 0.4$ $\mu\text{m}$ $10.4 \pm 0.5$ $\mu\text{m}$
Core-Cladding Concentricity Error	$\leq 0.5$ $\mu\text{m}$	
Cladding Diameter	$125 \pm 0.7$ $\mu\text{m}$	
Cladding Non Circularity	$\leq 0.8$ %	
Coating Diameter	$242 \pm 5$ $\mu\text{m}$	

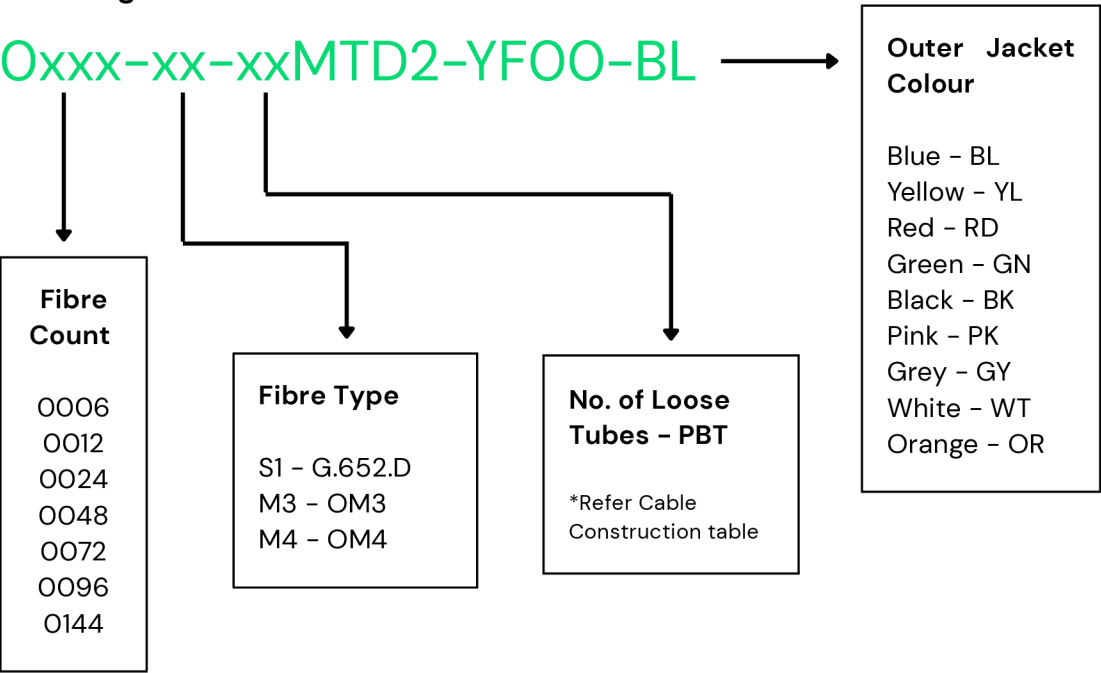
Fibre Type	OM3	OM4
Attenuation	850 nm $\leq 3.0$ dB/km 1300 nm $\leq 1.5$ dB/km	850 nm $\leq 3.0$ dB/km 1300 nm $\leq 1.5$ dB/km
Bandwidth	850 nm $\geq 1500$ MHz.km 1300 nm $\geq 500$ MHz.km	850 nm $\geq 3500$ MHz.km 1300 nm $\geq 500$ MHz.km

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
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### Ordering Guide



# Rodent Proof Fibre Optic Cables

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Dielectric Armoured  
(PE+Nylon+FRP+PE)

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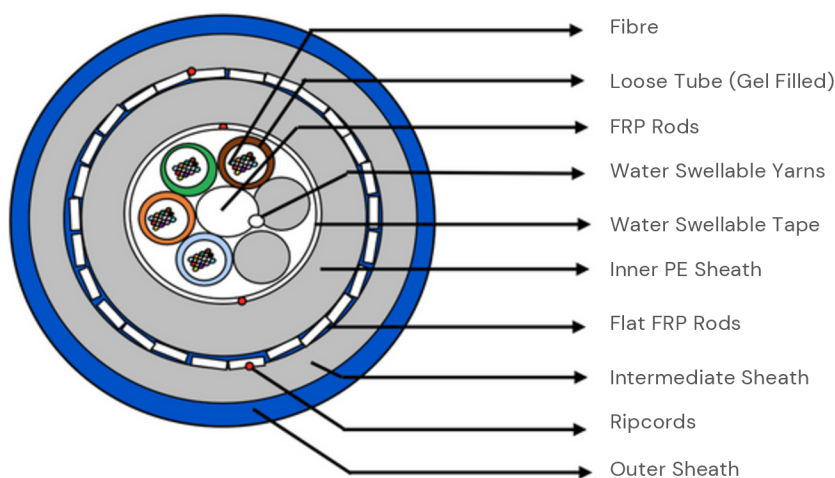
Steel Tape Armoured  
(PE+ECCS Tape+PE+PA)



# Dielectric Armoured (PE+FRP+PE+PA) Fibre Optic Cable

Oxxx-xx-xxMTD1-YFOO-BL

Multi-tube Double Jacket Fibre Optic Cables are designed for outside plant (OSP) use and are suitable for installation in underground conduits using either pulling or blowing methods. The cable features a stranded loose tube design with optical fibres laid around a central FRP (Fibre Reinforced Plastic) strength member. Water-blocking gel in the tubes and water-swappable tape in the core protect against moisture ingress. The construction includes an inner polyethylene sheath, flat FRP armouring, an intermediate polyethylene jacket, and a rugged nylon outer sheath for enhanced durability.



*\*Representative diagram, not to scale*

## Key Features

- Dry water-blocking elements for gel-free core access
- Dual-layer thermoplastic jackets for durability
- Flat FRP armouring for tensile and crush resistance
- UV stabilised, rodent- and termite-resistant

## Applications and Benefits

- Suitable for long-haul, metro, and access networks
- Easy access and gel-free core reduce prep time
- Robust construction ensures long-term protection in harsh Australian environments

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## Cable Construction

Fibre Count	Number of Fibres per Tube	Number of Loose Tubes – PBT	Number of Fillers – HDPE – Black	Central Strength Member	Cable Diameter	Cable Weight
6	6	1	5	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
12	12	1	5	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
24	12	2	4	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
48	12	4	2	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
72	12	6	–	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
96	12	8	–	FRP Rod PE Upcoated	16.5 mm ± 5 %	240 kg/km ± 10%
144	12	12	–	FRP Rod PE Upcoated	19.6 mm ± 5 %	330 kg/km ± 10%
Loose Tube OD			2.2 ± 0.1 mm			
Moisture Barrier			Water Swellable Yarn			
Core Wrapping			Water Swellable Tape			
Inner Sheath			HDPE – Black – UV Stabilized			
Armouring			Flat FRP Rods			
Intermediate Sheath			HDPE – Black – UV Stabilized			
Outer Sheath			Nylon – Blue* – UV Stabilized *other outer jacket colours available on request – see ordering guide for details			
Number of Ripcords			4 – 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

Tube Count	1	2	3	4	5	6	7	8	9	10	11	12
Tube Colour EIA/TIA – 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq

Cable Performance

Tensile Strength	6000 N	IEC-60794-1-21-E1
Crush Resistance	6000 N / 100 x 100 mm	IEC-60794-1-21-E3
Impact Strength	20 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
Drip Test	30 cm , 70 °C, 24 hr	IEC-60794-1-21-E14
Environmental Performance	Installation -10 °C to + 70 °C Operation -40 ° C to + 60°C Storage. -40 °C to + 70 °C	IEC-60794-1-22-F1

## Fibre Characteristics

Fibre Type	ITU-T G.652D	
Attenuation (Cabled)	1310 nm 1550 nm 1625 nm	$\leq 0.35$ dB/km $\leq 0.21$ dB/km $\leq 0.23$ dB/km
Chromatic Dispersion	1285–1330 nm 1550 nm	$\leq 3.5$ ps/nm.km $\leq 18$ ps/nm.km
PMD (Max. Individual)	$\leq 0.2$ ps/ $\sqrt{\text{km}}$	
PMD (Link design value)	$\leq 0.06$ ps/ $\sqrt{\text{km}}$	
Cable cut off wavelength $\lambda_{cc}$	$\leq 1260$ nm	
MFD	1310 nm 1550 nm	$9.2 \pm 0.4$ $\mu\text{m}$ $10.4 \pm 0.5$ $\mu\text{m}$
Core-Cladding Concentricity Error	$\leq 0.5$ $\mu\text{m}$	
Cladding Diameter	$125 \pm 0.7$ $\mu\text{m}$	
Cladding Non Circularity	$\leq 0.8$ %	
Coating Diameter	$242 \pm 5$ $\mu\text{m}$	

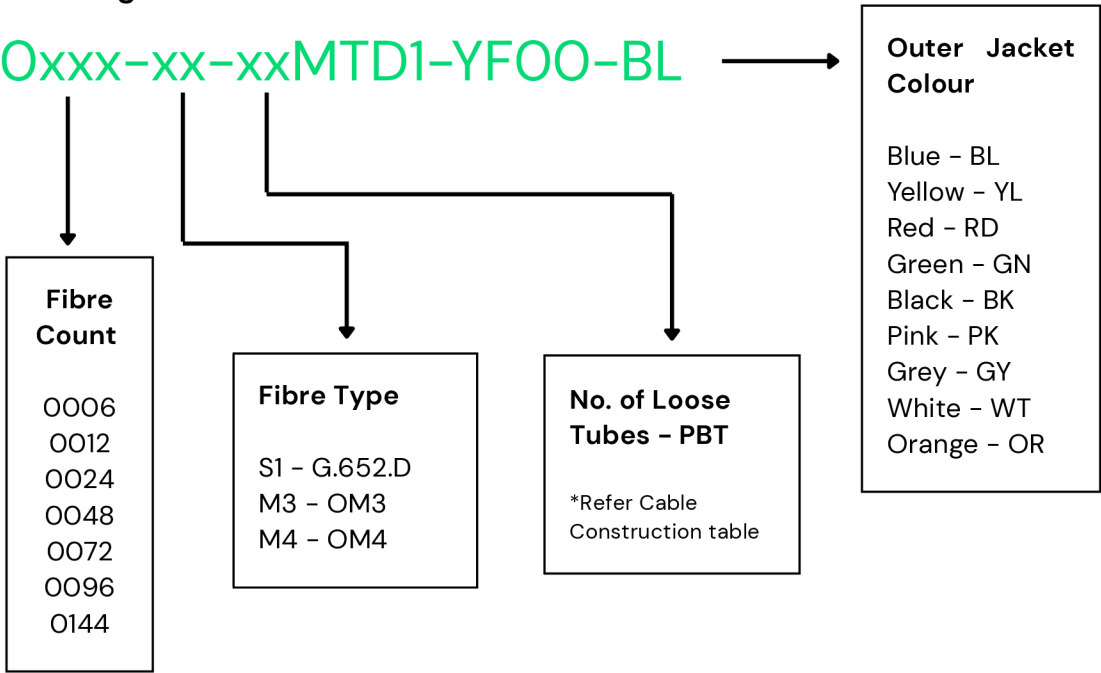
Fibre Type	OM3	OM4
Attenuation	850 nm $\leq 3.0$ dB/km 1300 nm $\leq 1.5$ dB/km	850 nm $\leq 3.0$ dB/km 1300 nm $\leq 1.5$ dB/km
Bandwidth	850 nm $\geq 1500$ MHz.km 1300 nm $\geq 500$ MHz.km	850 nm $\geq 3500$ MHz.km 1300 nm $\geq 500$ MHz.km

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
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Ordering Guide



# Rodent Proof Fibre Optic Cables

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Dielectric Armoured  
(PE+Nylon+FRP+PE)

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(PE+FRP+PE+Nylon)

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(PE+Nylon+FRP+PE+Nylon)

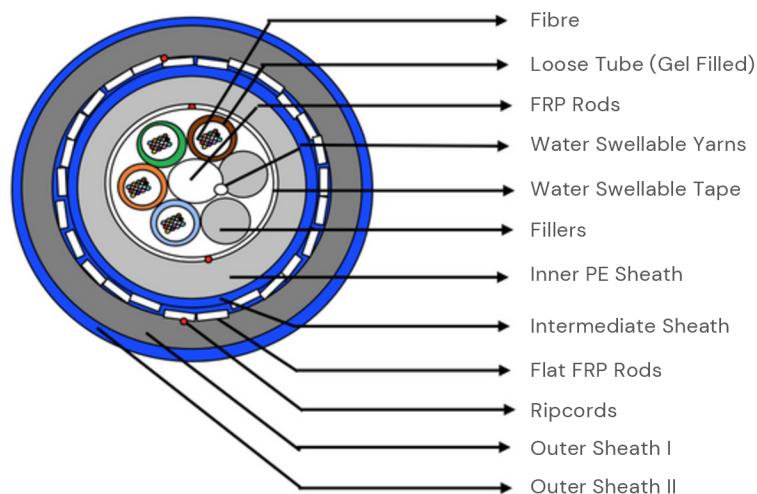
Steel Tape Armoured  
(PE+ECCS Tape+PE+PA)



# Dielectric Armoured (PE+PA+FRP+PE+PA) Fibre Optic Cable

Oxxx-xx-xxMTD6-YFOO-xx

The FRP Armoured Multitube Quad Sheath Fibre Optic Cable is a high-performance, all-dielectric cable designed for harsh outdoor environments. Ideal for critical infrastructure and road corridor deployments, the cable is constructed with multiple gel-filled loose tubes stranded around a central strength member, the core is protected with water-swellaable tape, an inner polyethylene sheath, an intermediate nylon sheath, and robust flat FRP armouring. The cable features a dual thermoplastic outer jacket of polyethylene and nylon, offering enhanced mechanical strength, rodent resistance, and long-term durability in demanding conditions.



*\*Representative diagram, not to scale*

## Key Features

- Flat FRP dielectric armouring for superior crush, impact, and rodent resistance
- UV-stabilized, rugged dual jackets (polyethylene & nylon) ensure environmental and mechanical protection

## Applications and Benefits

- Ideal for Outside Plant (OSP) environments
- Suitable for direct burial
- Perfect for long-haul backbone networks, rural broadband, and utility infrastructure
- Recommended for deployments requiring high durability and rodent resistance

## Cable Construction

Fibre Count	Number of Fibres per Tube	Number of Loose Tubes – PBT	Number of Fillers – HDPE – Black	Central Strength Member	Cable Diameter	Cable Weight
12	12	1	5	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
24	12	2	4	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
48	12	4	2	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
72	12	6	–	FRP Rod	15.2 mm ± 5 %	200 kg/km ± 10%
96	12	8	–	FRP Rod	16.5 mm ± 5 %	240 kg/km ± 10%
144	12	12	–	FRP Rod PE Upcoated	19.5 mm ± 5 %	330 kg/km ± 10%
192	12	Layer I : 6 Layer II : 10	Layer II : 2	FRP Rod	19.5 mm ± 5 %	335 kg/km ± 10%
Moisture Barrier			Water Swellable Yarn			
Core Wrapping			Water Swellable Tape			
Inner Sheath			HDPE – Black – UV Stabilized			
Intermediate Sheath			Nylon – Blue – UV Stabilized			
Armouring			Flat FRP Rods			
Outer Sheath I			HDPE – Black – UV Stabilized			
Outer Sheath II			Nylon – Blue – UV Stabilized			
Number of Ripcords			4 – 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

Tube Count	1	2	3	4	5	6	7	8	9	10	11	12
Tube Colour EIA/TIA – 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq

Tube Count	1	2	3	4	5	6						
Tube Colour Layer I	Bl	Or	Gr	Br	Sl	Wh						
Tube Count	1	2	3	4	5	6	7	8	9	10	11	12
Tube Colour Layer II	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Filler	Filler

## Cable Performance

Max. Tensile Strength	6000 N	IEC-60794-1-21-E1
Crush Resistance	6000 N / 100 mm x 100 mm	IEC-60794-1-21-E3
Impact Strength	10 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
Drip Test	30 cm , 70 °C, 24 hr	IEC-60794-1-21-E14
Environmental Performance	Installation – 10 °C to + 70 °C Operation – 20 °C to + 70°C Storage. – 30 °C to + 70 °C	IEC-60794-1-22-F1



## Fibre Characteristics

Fibre Type	ITU-T G.652D	
Attenuation (Cabled)	1310 nm 1550 nm 1625 nm	$\leq 0.35$ dB/km $\leq 0.21$ dB/km $\leq 0.23$ dB/km
Chromatic Dispersion	1285–1330 nm 1550 nm	$\leq 3.5$ ps/nm.km $\leq 18$ ps/nm.km
PMD (Max. Individual)	$\leq 0.2$ ps/ $\sqrt{\text{km}}$	
PMD (Link design value)	$\leq 0.06$ ps/ $\sqrt{\text{km}}$	
Cable cut off wavelength $\lambda_{cc}$	$\leq 1260$ nm	
MFD	1310 nm 1550 nm	$9.2 \pm 0.4$ $\mu\text{m}$ $10.4 \pm 0.5$ $\mu\text{m}$
Core-Cladding Concentricity Error	$\leq 0.5$ $\mu\text{m}$	
Cladding Diameter	$125 \pm 0.7$ $\mu\text{m}$	
Cladding Non Circularity	$\leq 0.8$ %	
Coating Diameter	$242 \pm 5$ $\mu\text{m}$	

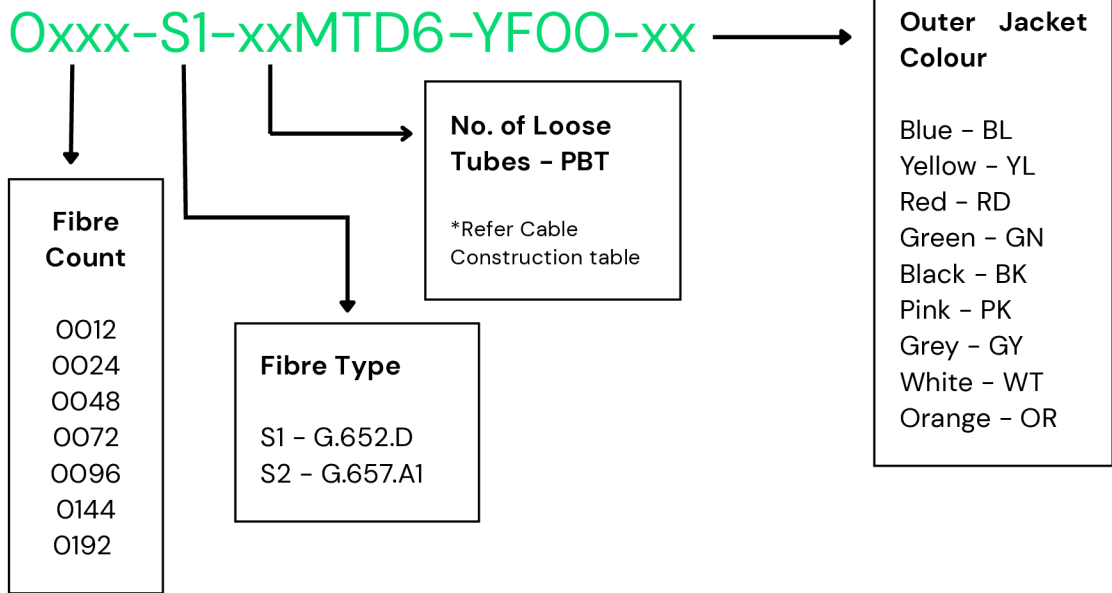
## Packaging & Printing

Drum Type	Pinewood Drums AS 2857, Cable end sealed
Length Multiple	4, 6 km $\pm 5$ %
Sheath Print	As per request

Applicable Standards

IEC 60793, IEC 60794, ITU-T, RoHS, REACH, AS/CA S008, AS 1049, AS 2857, AS/NZS ISO 9001, MRTS234 2022

Ordering Guide



# Rodent Proof Fibre Optic Cables

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Dielectric Armoured  
(PE+Nylon+FRP+PE)

Dielectric Armoured  
(PE+FRP+PE+Nylon)

Dielectric Armoured  
(PE+Nylon+FRP+PE+Nylon)

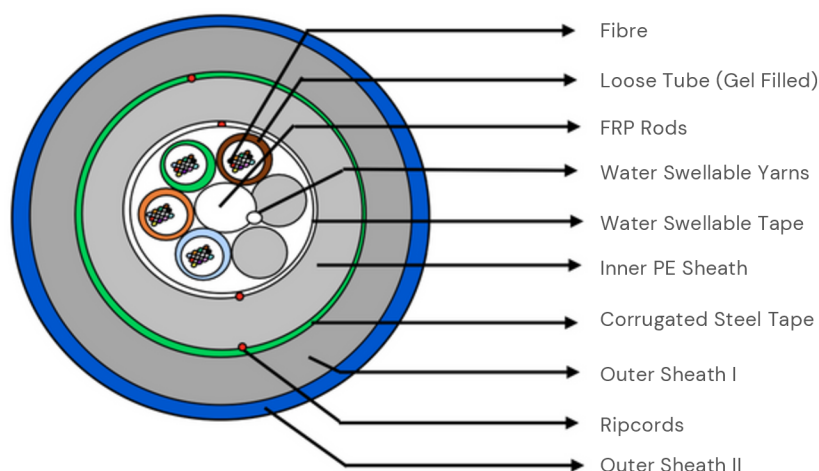
Steel Tape Armoured  
(PE+ECCS Tape+PE+PA)



# Armoured (PE+ECSS TAPE+PE+PA) Fibre Optic Cable

Oxxx-xx-xxMTD1-YSOO-BL

Our Steel Tape Armored Optical Fibre Cable is engineered for high-performance connectivity in both direct burial and duct applications. Designed with a central strength member, the cable is built to withstand harsh environments, ensuring reliability and durability. Featuring water-blocked loose tubes and a robust construction, it provides long-lasting protection against moisture and physical damage. The combination of a polyethylene inner sheath, water-swellable tape, and corrugated steel tape armor offers enhanced protection and effective resistance to rodents, safeguarding the cable's integrity in hostile environments.



*\*Representative diagram, not to scale*

## Key Features

- **Water Resistance:** Water-blocking gel inside the buffer tubes and water-swellable tape around the core prevent water ingress.
- **Post-installation Locate-ability:** The steel tape armor allows for easy post-installation cable location.

## Applications and Benefits

- Suitable for use in utility networks where reliability and durability are critical, including power stations, substations, and remote facilities.
- Designed for direct burial and environments prone to physical damage, this cable is ideal for locations where protection from rodents and environmental factors is essential.

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## Cable Construction

Fibre Count	Number of Fibres per Tube	Number of Loose Tubes – PBT	Number of Fillers – HDPE – Black	Central Strength Member	Cable Diameter	Cable Weight
6	6	1	5	FRP Rod	13.5 mm ± 5 %	160 kg/km ± 10%
12	12	1	5	FRP Rod	13.5 mm ± 5 %	160 kg/km ± 10%
24	12	2	4	FRP Rod	13.5 mm ± 5 %	160 kg/km ± 10%
48	12	4	2	FRP Rod	13.5 mm ± 5 %	160 kg/km ± 10%
72	12	6	–	FRP Rod	13.5 mm ± 5 %	160 kg/km ± 10%
96	12	8	–	FRP Rod PE Upcoated	15.0 mm ± 5 %	206 kg/km ± 10%
144	12	12	–	FRP Rod PE Upcoated	17.0 mm ± 5 %	270 kg/km ± 10%
Moisture Barrier			Water Swellable Yarn			
Core Wrapping			Water Swellable Tape			
Inner Sheath			HDPE – Black – UV Stabilized			
Intermediate Sheath			Nylon – Blue – UV Stabilized			
Armouring			Corrugated Steel Tape			
Outer Sheath			HDPE – Blue* – UV Stabilized *other outer jacket colours available on request – see ordering guide for details			
Number of Ripcords			4 – 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

Tube Count	1	2	3	4	5	6	7	8	9	10	11	12
Tube Colour EIA/TIA – 598	Bl	Or	Gr	Br	Sl	Wh	Rd	Bk	Yl	Vi	Pk	Aq

## Cable Performance

Tensile Strength	6 –72F : 2500 N 96F/144F : 3000 N	IEC-60794-1-21-E1
Crush Resistance	4000 N / 100 mm x 100 mm	IEC-60794-1-21-E3
Impact Strength	10 N.m	IEC-60794-1-21-E4
Torsion	± 180 °	IEC-60794-1-21-E7
Minimum Bend Radius	During Installation : 20 x D After Installation : 15 x D	IEC-60794-1-21-E11
Water Penetration Test	1 m water head, 3 m sample, 24 hours	IEC-60794-1-22-F5
Drip Test	30 cm , 70 °C, 24 hr	IEC-60794-1-21-E14
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.652D	
Attenuation (Cabled)	1310 nm 1550 nm 1625 nm	$\leq 0.35$ dB/km $\leq 0.21$ dB/km $\leq 0.23$ dB/km
Chromatic Dispersion	1285–1330 nm 1550 nm	$\leq 3.5$ ps/nm.km $\leq 18$ ps/nm.km
PMD (Max. Individual)	$\leq 0.2$ ps/ $\sqrt{\text{km}}$	
PMD (Link design value)	$\leq 0.06$ ps/ $\sqrt{\text{km}}$	
Cable cut off wavelength $\lambda_{cc}$	$\leq 1260$ nm	
MFD	1310 nm 1550 nm	$9.2 \pm 0.4$ $\mu\text{m}$ $10.4 \pm 0.5$ $\mu\text{m}$
Core-Cladding Concentricity Error	$\leq 0.5$ $\mu\text{m}$	
Cladding Diameter	$125 \pm 0.7$ $\mu\text{m}$	
Cladding Non Circularity	$\leq 0.8$ %	
Coating Diameter	$242 \pm 5$ $\mu\text{m}$	

Fibre Type	OM3	OM4
Attenuation	850 nm $\leq 3.0$ dB/km 1300 nm $\leq 1.5$ dB/km	850 nm $\leq 3.0$ dB/km 1300 nm $\leq 1.5$ dB/km
Bandwidth	850 nm $\geq 1500$ MHz.km 1300 nm $\geq 500$ MHz.km	850 nm $\geq 3500$ MHz.km 1300 nm $\geq 500$ 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
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### Ordering Guide

