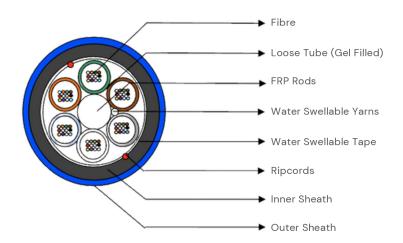


MT Duct PE-Nylon Fibre Optic Cable

Oxxx-xx-xxMTD1-000-xx

The Multi-tube PE/Nylon Jacket Fiber Optic Cable is engineered for outdoor environments, particularly in duct-based outside plant (OSP) installations. Designed with loose-tube construction, optical fibres are protected within gel-filled tubes that are stranded around a central FRP strength member. This configuration is wrapped in water-swellable tape for enhanced protection against moisture ingress. The cable core is enclosed in a dual-layer thermoplastic jacket of polyethylene (PE) and polyamide (PA) providing superior mechanical strength, environmental resistance, and ease of installation.



*Representative diagram, not to scale

Key Features

- Durable PE/PA outer jacket delivers UV resistance, abrasion protection, and longterm reliability
- Built-in termite resistance extends cable life in underground or exposed installations.
- Dry water-blocking tape and gel-filled tubes ensure excellent moisture resistance

Applications and Benefits

- Ideal for high-performance telecom networks requiring robust, lightweight, and easy-todeploy cabling solutions
- Gel-free core and ripcord design enable faster, cleaner, and more efficient cable access and termination.

© 2025 Veyra Fibre Pty Ltd. All rights reserved. This document is intended for general guidance and may be updated without prior notice. If any specifications outlined here are critical to your application, please confirm that you are referencing the latest version

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	9.6 ± 0.5 mm	70 ± 10 kg/km			
12	12	1	5	FRP Rod	9.6 ± 0.5 mm	70 ± 10 kg/km			
24	12	2	4 FRP Rod		9.6 ± 0.5 mm	70 ± 10 kg/km			
48	12	4	2	FRP Rod	9.6 ± 0.5 mm	70 ± 10 kg/km			
72	12	6	-	FRP Rod	9.6 ± 0.5 mm	70 ± 10 kg/km			
96	12	8	-	FRP Rod	11.0 ± 0.5 mm	100 ± 10 kg/km			
144	12	12	- FRP Rod PE Upcoated		14.0 ± 0.5 mm	150 ± 15 kg/km			
Loose Tu	Loose Tube OD			2.0 ± 0.1 mm					
Moisture	Barrier		Water Swellable Yarn						
Core Wra	apping		Water Swellable Tape						
Inner She	eath		HDPE – Black – UV Stabilized						
Outer Sh	eath		Nylon – Blue* – UV Stabilized *other outer jacket colours available on request - see ordering guide for details						
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	SI	Wh	Rd	Bk	ΥI	Vi	Pk	Aq

^{© 2025} Veyra Fibre Pty Ltd. All rights reserved. This document is intended for general guidance and may be updated without prior notice. If any specifications outlined here are critical to your application, please confirm that you are referencing the latest version

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

Cable Performance

Tensile Strength	6 – 72F : 2000 N 96/144F : 2400 N	IEC-60794-1-21-E1		
Crush Resistance	2000 N/ 100 x 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	During Installation : 20 x D After Installation : 10 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 -20 °C to + 60 °C Operation -30 °C to + 70 °C Storage40 °C to + 70 °C	IEC-60794-1-22-F1		

Fibre Characteristics

Fibre Type	ITU-T G.652D
Attenuation (Cabled)	1310 nm ≤ 0.35 dB/km 1550 nm ≤ 0.21 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

^{© 2025} Veyra Fibre Pty Ltd. All rights reserved. This document is intended for general guidance and may be updated without prior notice. If any specifications outlined here are critical to your application, please confirm that you are referencing the latest version

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		

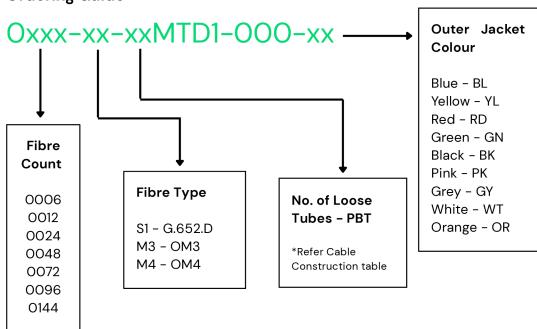
Fibre Type	OM3	OM4				
Attenuation	850 nm ≤ 3.0 dB/km 1300 nm ≤ 1.0 dB/km	850 nm ≤ 3.0 dB/km 1300 nm ≤ 1.0 dB/km				
Bandwidth	850 nm ≥ 1500 MHz.km 1300 nm ≥ 500 MHz.km	850 nm ≥ 3500 MHz.km 1300 nm ≥ 500 MHz.km				
Core Diameter	50.0 ± 2.5 μm					
Core-Cladding Concentricity Error	≤ 1.0 µm					
Cladding Diameter	125 ± 1.0 μm					
Cladding Non Circularity	≤ 1.O %					
Coating Diameter	242 ± 7 μm					

Applicable Standards

IEC 60793, IEC 60794, ITU-T, RoHS, REACH, AS/CA SOO8, AS 1049, AS 2857, AS/NZS ISO 9001

© 2025 Veyra Fibre Pty Ltd. All rights reserved. This document is intended for general guidance and may be updated without prior notice. If any specifications outlined here are critical to your application, please confirm that you are referencing the latest version

Ordering Guide



© 2025 Veyra Fibre Pty Ltd. All rights reserved. This document is intended for general guidance and may be updated without prior notice. If any specifications outlined here are critical to your application, please confirm that you are referencing the latest version