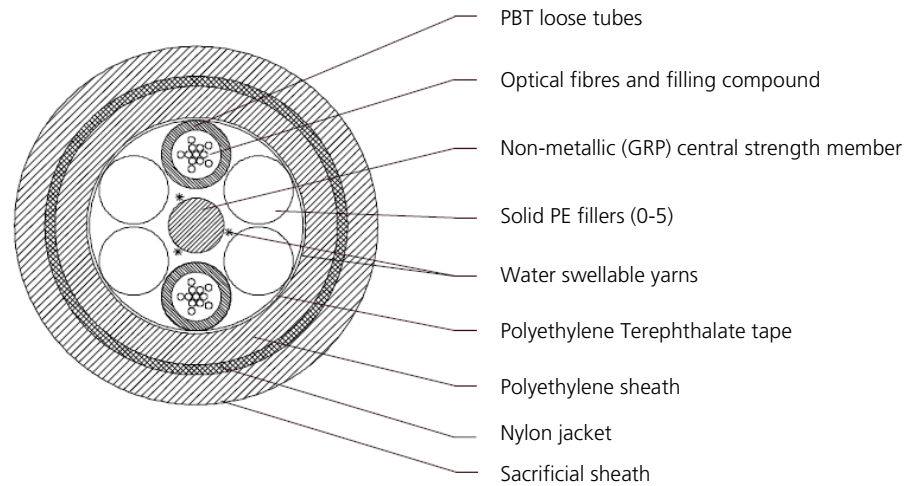


TrueNet®

Fibre Outdoor Highlight Gel-filled Loosetube Sacrificial Sheath Cable

Issue 9



24 Fibre cable shown

Cable containing from 4 up to 144 optical fibres in gel filled (thixotropic compound) loose tubes for either duct or direct buried applications.

Colour coded tubes containing maximum 12 fibres per tube and solid polyethylene fillers as required, stranded around a glass reinforced plastic (GRP) central strength member. Cables up to and including 72 core utilise 1-6 tubes, 96 core cable utilises 8 tubes, and 144 core cable utilises 12 tubes.

The space between the tubes is filled with water swellable yarns (interstitial filling compound). Tubes are wrapped with synthetic tape and inner sheathed with UV stabilised polyethylene (Black), Nylon jacket (Blue) and UV stabilised polyethylene, sacrificial outer sheath jacket (Black).

Hard nylon jackets provide protection against termites but their effectiveness is compromised if they are scratched during installation. To prevent this, the sacrificial outer sheath is added.

Features:

- Available as 9µm singlemode (OS2), 50µm enhanced multimode (OM3) or 62.5µm multimode (OM1)
- The OS2 singlemode cable meets the ITU G652-D requirements. It has substantially reduced attenuation at the water peak wavelengths and is commonly referred to as low or Zero Water Peak cable. The wavelength window from 1280/1625 is now available for use in long distance applications involving;
 - Cable TV
 - Video and data networks
 - Course wave-division multiplexing (CWDM)
 - Dual, transmit and receive, signals for FTTx

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Specifications

Cable General:

Overall cable diameter (nominal)	
Up to and including 72 core:.....	10.9mm
96 core:.....	11.8mm
144 core:.....	14.3mm
Mass (nominal)	
Up to and including 72 core:.....	87 kg/km
96 core:.....	110kg/km
144 core:.....	157kg/km
Maximum tensile strength (short term)	
Up to and including 72 core:.....	1800N
96 core:.....	2500N
144 core:.....	2500N
Maximum crush resistance (short term):.....	2000 N/10cm (all core counts)
Minimum Bend Radius (Up to and including 72 core)	
No load:.....	110mm
Full load:.....	220mm
Minimum Bend Radius (96 core)	
No load:.....	120mm
Full load:.....	240mm
Minimum Bend Radius (144 core)	
No load:.....	145mm
Full load:.....	290mm
Operating Temperature:.....	-10°C to +70°C
Specifications:.....	AS/ACIF S008, IEC 60793 Parts 1&2, ITU-T G652

Cables are manufactured from glass fibre with the following specifications:

9µm Singlemode fibre:

Optical Fibre Specification:.....	Zero Water Peak OS2 9/125µm
Complies with:.....	ITU-T G.652D and IEC 60793-2-50 Type B1.3
Mode Field Diameter @ 1310nm:.....	9.2±0.4µm
Numerical Aperture:.....	0.13
Maximum Attenuation (dB/km)	
@1310nm:.....	≤0.4
@1383nm:.....	≤0.4
@1550nm:.....	≤0.3

50µm Enhanced Multimode fibre:

Optical Fibre Specification:.....	OM3 (Type A1a.2) 50/125µm
Minimum Bandwidth	
OFL:.....	1500/500 MHz.km @ 850/1300nm
EMB:.....	2000/500 MHz.km @ 850/1300nm
Maximum Attenuation (dB/km)	
@850nm:.....	2.4
@1300nm:.....	0.6

62.5µm Multimode fibre:

Optical Fibre Specification:.....	OM1 (Type A1.b) 62.5/125µm
Minimum Bandwidth:.....	200/500 MHz.km @ 850/1300nm
Maximum Attenuation (dB/km)	
@850nm:.....	3.0
@1300nm:.....	0.7

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Ordering Information

Description	Quantity	Colour	Product No.
Outdoor Loosetube Sacrificial Sheath Cable, 9µm Singlemode, OS2	Per metre	Black	6462 4 448-XX
Outdoor Loosetube Sacrificial Sheath Cable, 62.5µm Multimode, OM1	Per metre	Black	6462 4 449-XX
Outdoor Loosetube Sacrificial Sheath Cable, 50µm Enhanced Multimode, OM3	Per metre	Black	6462 4 450-XX

Number of cores (-XX) -04.....4 core
 -06.....6
 -08.....8
 -12.....12
 -24.....24
 -36.....36
 -48.....48
 -60.....60
 -72.....72
 -96.....96
 -144.....144

Jacket colour: Black

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