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DATASHEET

External Underground Loose Tube Cable - Composite

PRODUCT INFORMATION

A Termite resistant Loose tube cable featuring a non-metallic strength member, gel filled tubes and a dry block core, for use in both direct bury and conduit/ duct applications.

The Thixotropic gel filled tubes and water swellable yarns (dry core) prevent water ingress while the non-metallic glass fibre reinforced plastic central strength member maintains excellent tensile strength.

This standard loose tube construction features an inner UV resistant Polyethylene (PE) sheathand an outer termite/UV resistant Polyamide Nylon jacket.

Other options include Sacrificial Sheath and CST Armour.

FEATURES & BENEFITS

- Blue UV and Insect/Termite resistant Nylon (Polyamide) Jacket
- Black PE (Polyethylene) UV resistant Inner sheath
- Polyester based rip cords for easy sheath removal
- Water blocking tape and swellable yarns prevent ingress into the core
- Thixotropic gel filled tubes prevent water ingress into the tubes
- Non-metallic fibre reinforced plastic rod central strength member provides tensile strength

PHYSICAL CHARACTERISTICS

Number of Fibres	2 to 72	96	120	144
Number of Fibres per Tube	up to 12			
Number of Elements	6	8	10	12
Tube/Filler Diameter (mm)	2.1			
Nominal Cable Diameter (mm)	10	11	12	14
Nominal Cable Weight (kg/km)	75	100	126	150
Max. Tensile Strength (kN)	2.0	2.4		
Max. Crush Resistance	1.0kN/100mm (Long Term)			
Min. Bending Radius	20 x cable OD Installation 15 x cable OD Long term			
Temperature Range (°C)	Storage: -20° to 70°C Installation: 0° to 50°C Operation: -10° to 70°C			
Central Strength Member	Glass Fibre Reinforced Plastic (GRP). Non-metallic			
Waterblocking	Thixotropic Gel filled tubes Water swellable elements (dry core)			
Outer Jacket	Material: UV stabilised Polyamide Nylon. Colour: Blue			
Inner Sheath	Material: UV stabilised Polyethylene. Colour: Black			

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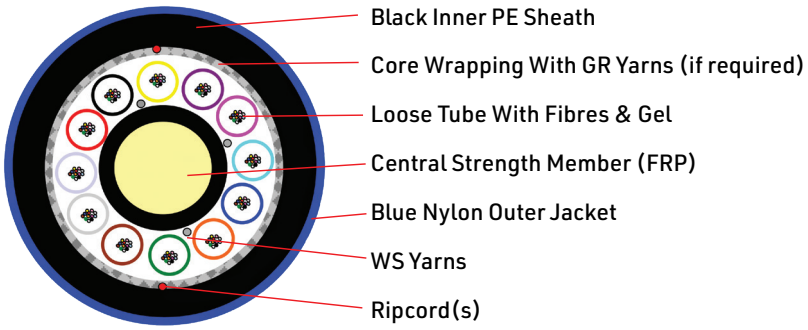
IDENTIFICATION

Fibre & Buffer Colour Code Chart

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	blue	orange	green	brown	grey	white	red	black	yellow	violet	pink	aqua

Fillers are either natural (opaque) or black.



OPTICAL CHARACTERISTICS - SINGLEMODE LOW WATER PEAK

Compliant with the following standards:	AS/NZS 3080, ISO/IEC 11801, IEC 60793-2-50, ITU-T G652.D
Optical Properties	
Fibre Type	SM/OS2
ITU-T Standard	G.652.D
Mode Field Diameter	8.7 - 9.6um @1310nm 9.8 - 10.9um @1550nm
Cladding Diameter	125.0 +/- 0.7um
Buffer Diameter	242 +/- 7um
Max. Attenuation of Cable	
@ 1310nm	0.35dB/km
@ 1383nm	0.35dB/km
@ 1550nm	0.21dB/km
@ 1625nm	0.24dB/km

Part No.	Description
CAB-LT-06SM-06MM3	6F SM + 6F OM3 Loose Tube Cable
CAB-LT-12SM-12MM	12F SM + 12F OM1 Loose Tube Cable
CAB-LT-12SM-12MM3	12F SM + 12F OM3 Loose Tube Cable