



Fiber Optic Cable (XLSA) Extra Long Span Self Supporting Aerial Cable

Application:

To be strung on poles / structures in air, supporting its own weight over extra long spans of 400m up to 800m between supports.

Construction:

GRP, water blocking binder, fiber optics in tubes, water blocking binder, water blocking tape, Polyethylene inner sheath, water blocking Aramid, Polyethylene or Anti-tracking HDPE outer sheath.

Fiber Types:

Single-Mode : G652D, G655(C,E,D), G656(A,D,E), G657.(A1,A2,B2) Ultra low loss.
Multi-Mode : OM1(62.5/125), OM2, OM3, OM4

Construction						
Number of Fibres (Fibre Count)	2-8	12	16	24	36	48
Fibres per Tube	2-8	6	8	6	6	6
Number of Elements	6	6	6	6	6	8
Number of Tubes	1	2	2	4	6	8
Number of Fillers	5	4	4	2	0	0
Material of Tubes	PBT (Polybutylene Terephthalate)					
Cable						
Central Strength Member	Glass Fibre Reinforced Plastic (Non Metallic)					
Strength Member Material	Aramid Yarn					
Filler Material	Natural Polyethylene					
Polyethylene outer sheath						
Diameter (mm) Nominal	14.5	14.5	14.5	14.5	14.5	16.1
Weight (kg/km) Nominal	165	165	165	165	165	200
Outer Sheath	Black (No Stripe)					
Material	Polyethylene UV stable					
Radial Thickness	Nominal 1.6mm					
Anti-Tracking Polyethylene outer sheath						
Diameter (mm) Nominal	15.3	15.3	15.3	15.3	15.3	16.9
Weight (kg/km) Nominal	196	196	196	196	196	236
Outer Sheath	Black (No Stripe)					
Material	Anti-Tracking Polyethylene UV stable					
Radial Thickness	Nominal 2.0mm					
Physical Properties						
Allowable Tensile strength						
During Installation (kN)	*16.2					
After Installation (kN)	**9					
Ultimate Tensile Strength (UTS) (kN)	35					
Span Length (m)	400	500	600	700	800	
Sag at everyday stress (EDS) (m)	5.8	9.0	13.0	17.8	23.2	
Bending radius						
After Installation	10 x Cable Diameter					
During Installation	20 x Cable Diameter					
Impact Test (2Nm/25mm Anvil)	10					
Torsion (± 180°C for 10 cycles) (m)	1					
Water Penetration (24 Hours) (m)	3					
Temperature Range	-20 / +70°C					
Fibre identification:	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua					
Loose Tube identification:	1. Blue 2. Orange 3. Green 4. Brown 5. Grey 6. White 7. Red 8. Black 9. Yellow 10. Violet 11. Pink 12. Aqua					
Shipping Length	2,000m to 6,000m					

Product Features

- The extra long span loose tube Aerial self supporting cable is suitable for installation on pole spans of 400m to 800m and a vast range of other self supporting applications.
 - Polyethylene/Anti-Tracking HDPE is UV Stabilized.
 - Low installation, low product cost and fast installation reduces the total project cost.
 - The cable's non metallic construction makes it immune to lightning.
 - Two layers of contra helical ARAMID Kevlar strength members enables the cable to withstand (EDS) Every Day Stress and abnormal environmental loading which makes the cable resistant to creep with a high modulus and eliminates torsional stress.
 - Excellent optical reliability is ensured by the gel filling in the tubes which provide protection against vibration.
- Note: For cables with 12 fibbers per tube, the attenuation levels during installation may be higher due to the reduced space in the tubes from pressure exerted from the dead end clamps over long spans.

* Anticipating no ice, but winds up to 125km/h, ** Every Day Stress

Customer acceptance Signature: _____

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