



Technical Data Sheet

Cable Description	12F, 24F, 48F, 72F, 96F SINGLE SHEATH ADSS CABLE FOR OVERHEAD APPLICATION
Type of Fibre	Single Mode, G.652D

Introduction

All dielectric self supporting aerial optic cable containing up to 96 LWP-SMF in full compliance with ITU-T G 652D. The offered cables are fully compliant to the relevant IEC specifications.

Cable Design

- * Upto 96 enhance low water peak single mode fibers in full compliance with ITU-T-G652D
- * Non-metallic and anti-buckling element FRP rod used as Central Strength Member
- * Loose buffer tubes fully filled
- * Loose buffer tubes S-Z Stranded
- * S-Z core is dry type filled with water swellable yarn & tape
- * Glass Yarn as peripheral strength member
- * UV Stabilized, PE Outer sheath, black

Application

- * Self supporting aerial installation
- * Maximum Tensile Strength of 6000 N measured at $\leq 1.0\%$ Fiber Strain
- * Suitable for span length from 50 mtrs to 150 mtrs

Special Features

- * Single layer stranded construction
- * Offers exceptional strength and corrosion resistance for aerial application
- * Flexible buffer tubes provide easy fibre routing inside closure
- * All dielectric antirodent construction

Cable Physical Characteristics

Fibre Count	12	24	48	72	96							
Number of Fibres in Each Tube	12											
Number of Buffer Tubes in each cable	1	2	4	6	8							
Cable Diameter (mm)	10.5	10.5	10.5	10.5	12.0							
Tolerance \pm (mm)	0.5	0.5	0.5	0.5	0.5							
Nominal Cable Weight (kg/km)	95	95	95	95	120							
Standard Length (meters)	4000 \pm 5%			2000 \pm 10%	4000 \pm 5%							

Cable Mechanical & Environmental Characteristics

Test	Standard	Product Performance													
Temperature Range (°C)	[IEC 60794-1-2-F1]	Operation: -30 °C to +70 °C, Installation: -30 °C to +70 °C & Storage: -30 °C to +70 °C													
Cable Bending Radius (mm)	[IEC 60794-1-2-E11 A & B]	210	210	210	210	240									
Kink Resistance (mm)	[IEC 60794-1-2-E10]	105	105	105	105	120									
Every Day Tensile Force (N)	[IEC 60794-1-2-E1]	4000	4000	4000	4000	4000	Every Day Tensile is measured at 0.66% fiber strain								
Impact Resistance (Nm)	[IEC 60794-1-2-E4]	50	50	50	50										
Crush Resistance (N/10cm)	[IEC 60794-1-2-E3]	2000	2000	2000	2000										
Torsion Resistance	[IEC 60794-1-2-E7]	10 Cycle, \pm 360°, L=50N													
Water Penetration	[IEC 60794-1-2-F5 B]	1 Meter Water Head, 3 Meters Cable Sample, 168 Hours													

Note: After the Test, Change in Attenuation shall be ≤ 0.05 dB/Km. No Fibre Break & Damage or Crack on the Cable

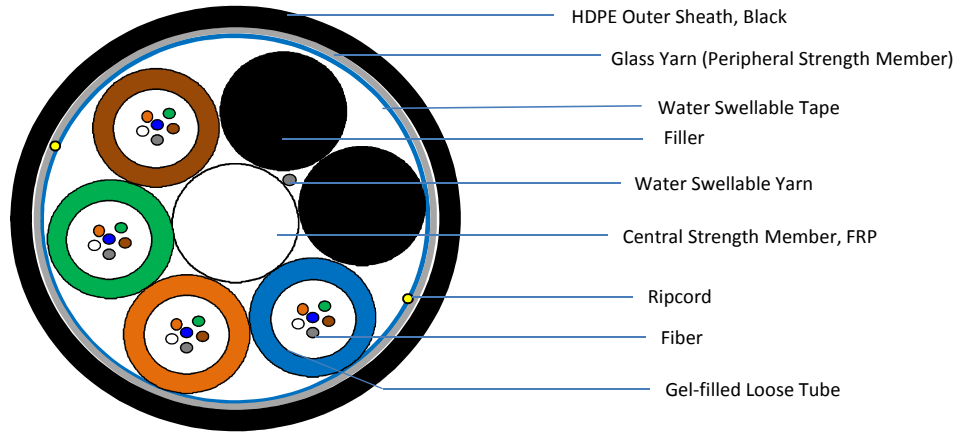
Cable Transmission Characteristics

Fibre Type	G.652D	Attenuation Coefficient (dB/Km)				PMD	Cable Cut-Off	MFD
		1310	1383	1550	1625	ps/sqrt.km	nm	μ m
Single Mode	G.652D	≤ 0.36	≤ 0.36	≤ 0.23	≤ 0.25	≤ 0.2	≤ 1260	9.2 ± 0.4

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Cable Constructional Details

Cable Cross Sectional Diagram of 48F Cable [Drawing not to scale]



Identification Fibre & Buffer Tubes

Fibre Colour	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
Buffer Tube Colour	Blue	Orange	Green	Brown	Slate	White	Red	Black				

Proposed Printing Details & Method at every meters

Printing Method & Colour	Hotfoil & White	CABLE ID Customer/Project Name Telephone Symbol, Laser Symbol, Number of Fibres, Type of Fibre Type of Cable YYYY Manufacturer Name Sequential Meter Marking
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Proposed Stenciling on Drum

Every length will be delivered on non-returnable wooden drums. Generally the cable drum flange will be marked with following: (These details can also be customised.)	<ul style="list-style-type: none"> * Arrow showing the direction, the drum can be rolled. * Country of origin. * The manufacturer's name * Number of fibers. * Nominal cable length in meters * Net and gross weight. * Drum number * Customer's/Project name and destination
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