REAL OPTIC

Technical Data Sheet

Descripción del Cable	**12F/24F /48F /72F /96F /144F FIBRE SINGLE SHEATH DUCT CABLE**
Tipo de Fibra	**Single Mode, G.652D**

Introduction

Cable óptico dieléctrico para ductos que contiene hasta 144 fibras monomodo LWP-SMF y cumple totalmente con la norma ITU-T G.652D. Los cables ofrecidos cumplen completamente con las especificaciones relevantes de la IEC.

Cable Design

*Hasta 144 fibras monomodo mejoradas de bajo pico de agua en plena conformidad con ITU-T-G.652D.
*Elemento de resistencia central no metálico y antivuelco: varilla FRP.
*Tubos de amortiguación sueltos completamente llenos con gel tixotrópico y fibras.
*Tubos de amortiguación sueltos dispuestos en forma de S-Z.
*Núcleo S-Z seco y envuelto con cinta hinchable con agua.
*Hilo de vidrio como elemento de resistencia periférico.
*Cubierta exterior LSZH (resistente a los rayos UV), de color negro.

Application

*Adecuado para instalación
*Adecuado para uso en interiores y exteriores.

Special Features

*Construcción de capa única con disposición en forma de S-Z.
*Ofrece resistencia excepcional para aplicaciones en ductos.
*Los tubos de amortiguación flexibles facilitan el enrutamiento de las fibras dentro del cierre.
*Construcción totalmente dieléctrica.

Cable Physical Characteristics

Fibre Count	**6**	**12**	**24**	**48**	**72**	**96**	**144**
Number of Fibres in each Loose Tube	**6**	**12**					
Number of Loose Tube in each cable	**1**	**1**	**2**	**4**	**6**	**8**	**12**
Number of Filler (if Required)	**5**	**5**	**4**	**2**	**0**	**0**	**0**
Cable Diameter (mm)	**10.5**	**10.5**	**10.5**	**10.7**	**11.8**	**14.5**	
Tolerance ± (mm)	0.5						
Nominal Cable Weight (kg/km)	**110**	**110**	**110**	**120**	**145**	**200**	
Standard Length (meters)	4000 ± 5%						

Cable Mechanical & Environmental Characteristics

Test	**Standard**	**Product Performance**					
Temperature Range (°C)	[IEC 60794-1-2-F1]	Operation: -20 °C to +70 °C, Installation: -5 °C to +45 °C & Storage: -20 °C to +70 °C					
Cable Bending Radius (mm)	[IEC 60794-1-2-E11 A & B]	20 X D , D= Cable diameter					
Kink Resistance (mm)	[IEC 60794-1-2-E10]	10 X D , D= Cable diameter					
Tensile Force (N)	[IEC 60794-1-2-E1]	**2400 N**	**2400 N**	**3200 N**	**4300 N**	**5000 N**	
Impact Resistance (Nm)	[IEC 60794-1-2-E4]	Height 500 mm, Weight = 2.5 Kg, 3 Nos					
Crush Resistance (N)	[IEC 60794-1-2-E3]	2000 N (100 X 100 mm)					
Torsion Resistance	[IEC 60794-1-2-E7]	10 Cycle (± 180°) 2.5 Kg Weight, L= 2 Mtr					
Water Penetration	[IEC 60794-1-2-F5 B]	1 Meter Water Head, 3 Meters Cable Sample, 24 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		**Attenuation Coefficient (dB/Km)**				**PMD**	**Cable Cut-Off**	**MFD**
		850	**1300**	**1310**	**1550**	**ps/sqrt.km**	**nm**	**µm**
Single Mode	G.652D	-	-	≤ 0.35	≤ 0.22	≤ 0.2	≤ 1260	9.2 ± 0.4
Multi Mode	OM3	≤ 3.2	≤ 1.2	-	-	-	-	-

Importado y Distribuido por Real Optic Limitada
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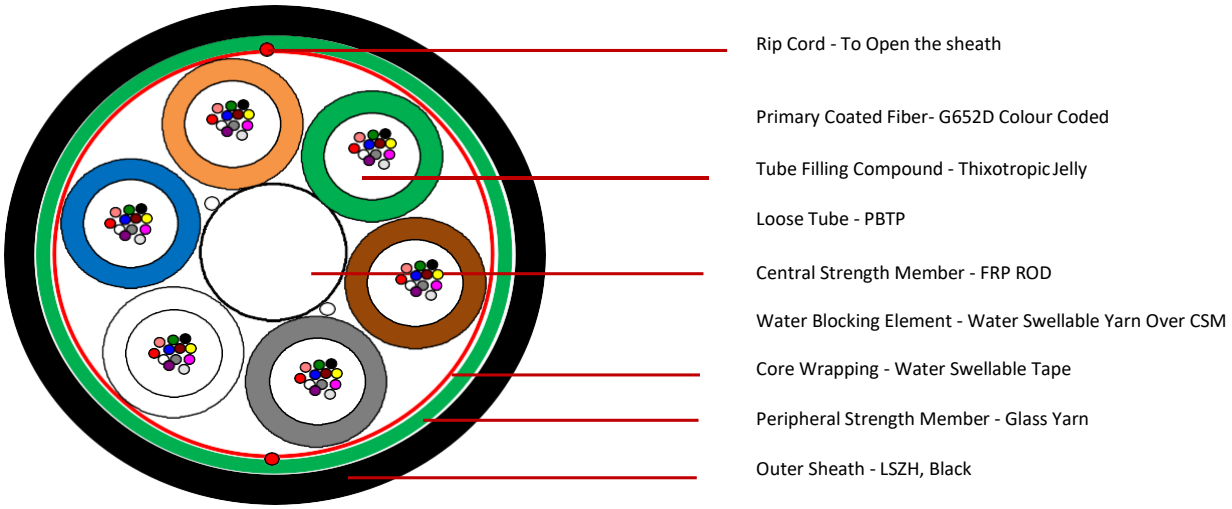
Cable Constructional Details

Cable Cross Sectional Diagram of 72F Cable [Drawing not to scale]



Indentification Fibre & Loose Tube Colour

Fibre Colour	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua
Loose Tube Colour	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Pink	Aqua

Proposed Printing Details & Method at every meters

Printing Method & Colour	Inkjet & 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

Proposed Stencling 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.)	* 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

Design no.	BEPB/TDS/2226 (G652D)
Reference	BEPB/TDS/2226 (G652D)
Issue no. & Date	Dated 04-08-19