



REAL OPTIC

Technical Data Sheet

Cable Description	6F+12F+24F SM / MM TIGHT BUFFER DOBLE CUBIERTA LSZH CON ARMADURA DE ACERO CORRUGADO
Type of Fibre	Single Mode, G.657A1/G.657A2 & Multi Mode 50 (OM2, OM3, OM4) / 62.5 (OM1) microns

Introduction

Cable óptico blindado con doble cubierta tipo fanout que contiene cable de fibra óptica de Modo Único y Modo Múltiple.

Cable Design

- * Amortiguación ajustada de Nylon
- * Hilo de aramida de alto módulo como miembro de resistencia periférico
- * La unidad de amortiguación ajustada consiste en una fibra única, fácilmente pelable y flexible
- * Cubierta interior LSZH
- * Blindaje de cinta corrugada ECCS
- * Cubierta exterior LSZH

Application

- * El diseño universal es adecuado para su uso en la mayoría de las áreas de redes, incluyendo backbone, acceso y distribución.
- * Preparación rápida de la fibra lista para la instalación.
- * Instalación dentro de conductos utilizando técnicas de soplado o tirado.

Special Features

- * Reduced diameter
- * Armour provides excellent crush performance

Cable Physical Characteristics

Fibre Count	6	12	24
Number of Fibres in a Tight Buffer	1	1	1
Number of Tight Buffer	6	12	24
Cable Diameter (mm)	10.5	11.5	13.4
Tolerance ± (mm)	0.5	0.5	0.5
Nominal Cable Weight (kg/km)	120	140	195
Standard Length (meters)	1000/2000 ± 10%		

Cable Mechanical & Environmental Characteristics

Test	Standard	Product Performance
Temperature Range (°C)	[IEC 60794-1-2-F1]	Operation: -15 °C to +70 °C, Installation: -15 °C to +70 °C & Storage: -20 °C to +70 °C
Cable Bending Radius (mm)	[IEC 60794-1-2-E11 A]	20 x D (D=Diameter of Cable)
Kink Resistance (mm)	[IEC 60794-1-2-E10]	10 x D (D=Diameter of Cable)
Tensile Force (N)	[IEC 60794-1-2-E1]	700
Impact Resistance (Nm)	[IEC 60794-1-2-E4]	Height 0.5 meters, Weight = 1 Kg, 3 Nos
Repeated Bending	[IEC 60794-1-2-E6]	25 Cycle, r = 20 X D, D = Cable Diameter
Crush Resistance (N)	[IEC 60794-1-2-E3]	1000 [100 X 100 mm] for 60 sec
Torsion Resistance	[IEC 60794-1-2-E7]	10 Cycle, ± 180°, Length under Test 2 meters

Note: After the Test, Change in Attenuation shall be ≤ 0.05 dB/Km for Single Mode & ≤ 0.1 dB/Km at 1300 nm for Multi Mode . No Fibre Break & Damage or Crack on the Cable

Cable Transmission Characteristics

Fibre Type	For G.657A1	For G.657A2	50 microns	62.5 microns
Attenuation at 1310 nm (dB/Km)	≤ 0.4	≤ 0.4	-	-
Attenuation at 1550 nm (dB/Km)	≤ 0.3	≤ 0.3	-	-
Attenuation at 850 nm (dB/Km)	-	-	≤ 3.5	≤ 3.5
Attenuation at 1300 nm (dB/Km)	-	-	≤ 1.5	≤ 1.5
Polarization Mode Dispersion PMD (ps/sqrt.km)	≤ 0.2	≤ 0.2	-	-
Cable Cut Off (nm)	≤ 1260	≤ 1260	-	-
Mode Field Diameter MFD at 1310 nm (µm)	9.2 ± 0.4	8.6 ± 0.4	-	-



Importado y Distribuido por Real Optic Limitada

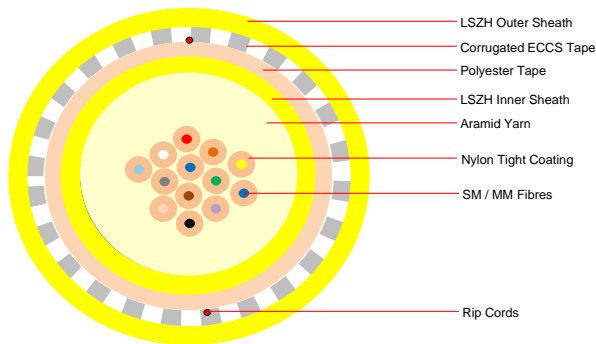
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Cable Description	6F+12F+24F SM / MM FANOUT DS ARM
Type of Fibre	Single Mode, G.657A1/G.657A2 & Multi Mode 50 (OM2, OM3, OM4) / 62.5 (OM1) microns

Cable Constructional Details

Cable Cross Sectional Diagram of 12F Cable [Drawing not to scale]



Identification Fibre & Tight Buffer Colour

Fibre Colour for 6F Cable	Blue	Orange	Green	Brown	Slate	White							
Fibre Colour for 12F Cable	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua	
Fibre Colour for 24F Cable	without Ring Mark	Blue	Orange	Green	Brown	Slate	White	Red	Black	Yellow	Violet	Rose	Aqua
	with Ring Mark	Blue	Orange	Green	Brown	Slate	White	Red	Natural	Yellow	Violet	Rose	Aqua

Tight Buffer	Natural colour, Nylon, 900 micron nominal
Peripheral Strength Member	Aramid Yarn
Inner Sheath	LSZH For SM: Yellow/Black Colour For Multi Mode OM1 & OM2: Orange Colour For Multi Mode OM3 & OM4: Aqua Colour
Covering over Inner Sheath	Polyester Tape
Rip Cord	Two below Armour
Armour	Corrugated ECCS Tape
Outer Sheath	LSZH For SM: Yellow Colour For Multi Mode OM1 & OM2: Orange Colour For Multi Mode OM3 & OM4: Aqua Colour

Proposed Printing Details & Method at every meters

Printing Method & Colour (Can be customised)	Inkjet	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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