







# **Fibre Optic Cable**

#### Z-XXOTKtsdDb CABFibre 24 Fibres

Non Metallic · Multi Tube Duct · Glass Reinforced · Anti Rodent

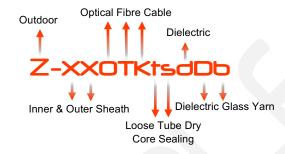






#### **APPLICATION**

Fibre Optic Cable consisting of an inner and outer PE sheath designated for transmission of digital and analogue data within the Optical fibres. Intended for use in cable ducts for the implementation of backbone and trunk networks. Suitable for use in primary and secondary cabling ducts or in close proximity to High Voltage lines and in spaces exposed to mechanical stresses and rodent attacks. For horizontal applications offering excellent tensile performance.



## **STANDARDS**

ITU-T G.652D

Custom specification no. 2362/2/4 RB

Identification of fibres in compliance to EIA/TIA-598 or PN-IEC 60304

Identification of tubes/elements to EIA/TIA-598 or PN-IEC 60304



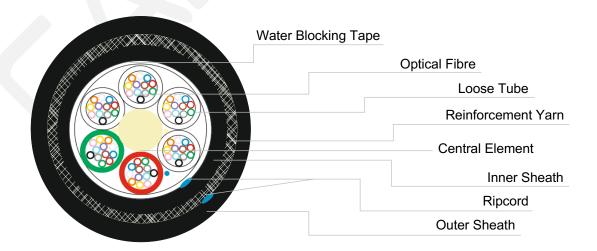




## **KEY FEATURES**

- # For outdoor application with anti-rodent protection properties
- # Resistant to moisture and longitudinal water penetration
- # Dielectric Glass Yarn
- # Resistant to electromagnetic interferences
- # Suitable for installation in proximity with HV lines

## CONSTRUCTION



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Optical Fibre	Optical telecommunication fibre strands complying to ITU-T G.652D or according to custom specification							
Central Element	Fibre reinforced plastic support rod							
Loose Tube	Thermoplastic PBT material with secondary coating							
Water Blocking Tape	Dry sealed water blocking tape across the cores							
Inner Sheath	Black High Density Polyethylene (HDPE)							
Reinforcement	Dielectric reinforced glass yarn							
Rip Cord	A conductive material operative as a single or double component in the form of a strong yarn situated under the jacket for purpose of facilitating jacket removal							
Outer Sheath	<ul> <li>Black High Density Polyethylene (HDPE) resistant to abraision, UV light and stress corrosion cracking</li> </ul>							

### **CHARACTERISTICS**

#### Maximum Tensile Load During installation

3kN

Temperature Range

Transport/Storage:  $-40^{\circ}\text{C to} + 70^{\circ}\text{C}$ Installation:  $-15^{\circ}\text{C to} + 60^{\circ}\text{C}$ Operational:  $-40^{\circ}\text{C to} + 70^{\circ}\text{C}$ 

#### Minimum Bending Radius

Installation: 15 x Overall Diameter Operational: 20 x Overall Diameter

#### **Resistant to Water Penetration**

Tested for a period of 24-36 hours to environmental specification IEC 60794-1-2-F5B

## STANDARD PACKAGING

3,000m or 4,000m on wooden drums, other forms of packing lengths and delivery are available on

## STANDARD PRINT LEGEND

CABLEOLOGY CABFibre Z-XX0TKtsdDb (SIZE) (YEAR)

## FIBRE AND TUBE COLOURS

#### **Identification of Fibres**

In compliance to EIA/TIA-598: Blue Orange Green Brown

Grey O White

#### **Identification of Tubes**

In compliance to EIA/TIA-598: OBlue Orange Green Brown

Filler Filler

## TECHNICAL PARAMETERS

	Outer		Cable dimensions		Mechanical properties			
No. of fibres	diameter of tube	No. of Outer Tubes/Filers diameter		Cable weight	Max. tensile load [N]		Min. bendi [mr	•
	[mm]		[mm] Approx	Approx	,		, -	Static (during the operation)
24	1.8	6	9.6	85	3000	1500	15 x OD	20 x OD





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## **KEY DATA TABLE**

Component	Desci	ription	Material	Dimension(s)						
Fibres	ITU-T G.652D according to EETC specifications									
Colour of fibres										
Colour of tubes	Identification of Fibres In compliance to EIA/TIA-598: ● Blue ● Orange ● Green ● Brown ● Grey ○ White									
	Identification of Tubes In compliance to EIA/TIA-598: ■ Blue ■ Orange ■ Green ■ Brown. ■ Filler ■ Filler									
Central support member	ali	igned rod	fibre reinforced Plastic	ф 1.8, 2.5 or 3.0mm						
PE oversheath on central suport member		Black	HDPE	<ul><li>φ 5.3 mm for upto 12 elements</li><li>φ 5 mm for 9+15 elements</li></ul>						
Secondary coating diameter tube		ne - thermoplastic material, 2, 4, <b>6</b> or 12 fibres	PBT	ф 1.8 mm (арргох.)						
Filling of the tube		gel	thixotropic gel							
Interstitial waterblocking	d	Iry sealed	Swelling tape	thickness: 0.15mm (approx.)						
Inner sheath	Black		HDPE	thickness: minimum rated average	0.45mm 0.55mm					
Reinforcement	dielectric yarn		glass yarns							
Rip cord	strong yarn		oolyester or aramid							
Outer sheath	● Black		HDPE	thickness: minimum rated average	1.0mm 1.15mm					
Attenuation @1310nm	dB/km ≤ 0.4 *) *Max attenuation for Single Mode Fibre type									
Attenuation @1550nm	dB/km ≤ 0.25 *) *Max attenuation for Single Mode Fibre type									
Attenuation @1625nm	dB/km ≤ 0.4 *) *Max attenuation for Single Mode Fibre type									
Marking/Printing:	CABLEOLOGY FIBRE OPTIC CABLE Z-XXOTKtsdDb 24J [year of production] [metre mark] (custom marking available upon request)									
Standard delivery lengths	3,000m / 4,000m custom lengths available upon request)									
Cable weight (Approx)	Kg/km		85							

\*) Max attenuation for Single Mode Fibre in cable - additional properties available in Fibre specification

Mechanical and Non mechanical testing criteria, available upon request

All measurements provided in the Table above where minimum value is not stipulated are approximates and subject to manufacturing tolerances to relevant standard(s)

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