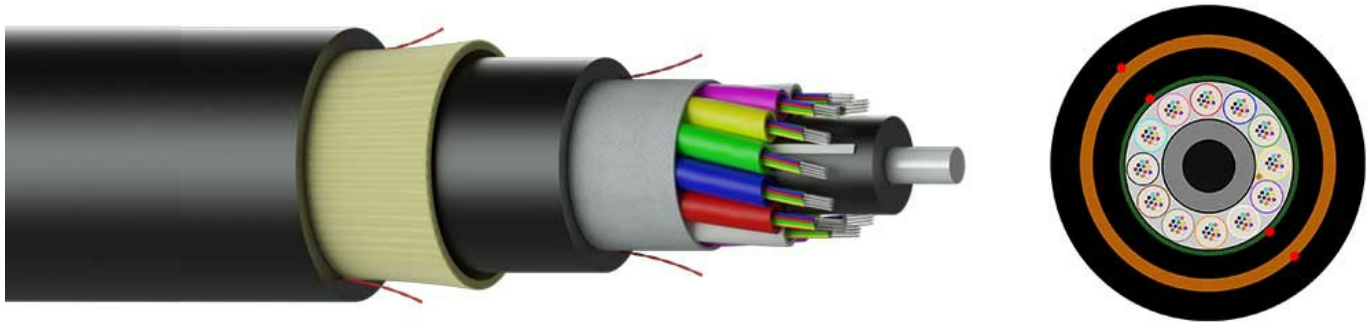


OPUG 144/M12 3kN, Cable Diameter: 15.5 mm, Core Type: G.652D, Armor Type: MA, Jacket Type: DJ, Jacket Material: HDPE/HDPE, Fiber & Tube CC: CC-EIA598-A , Cable Color: Black



## Description

Underground Fiber Optic Cables (OPUG) are used in various communication networks, designed for duct or direct burial installation. With single or double sheath and metallic armour, the cable is suitable for applications that require added mechanical. Due to our new technology, the cables show good flexibility and endurance to repeated bending, and great water blocking function. The glass yarns help the cable to have good tensile performance and temperature performance under extreme weathers, but also rodent protection under dielectric conditions. This cable contains fibers made of high pure silica and germanium doped silica.

## Standards

IEC60794-1  
 IEC60794-2  
 IEC60304  
 ITU-T  
 EIA-TIA  
 BS EN 187000  
 DIN0888

## Construction

Central FRP rod;  
 PBT loose tubes containing fibers, gel filled;  
 Stranding: Loose tubes SZ stranded around central strength member;  
 Water swellable yarns;  
 Water blocking tape;  
 Glass Yarns as peripheral strength member or metallic tape armored;  
 Ripcords;  
 Single or Double Sheath;

The above design is only a sample of the options available, for reference purposes only. Our policy of continuous improvement may result in a change of specifications without notice. If any discrepancies might be between the data sheet values and standards, we reserve the rights to make technical changes. Our company will not be held responsible, as all or any of pictures, drawings, weights and dimensions details or other elements in this document are only indicative and must not be considered contractual. Contact our sales team for other specifications or custom made products.

## Cable Characteristics

Fiber Count	144
Modularity	M12
Tube Count layer 1	12
Tube Count layer 2	N/A
Tube Count layer 3	N/A
Filler Count	0
Cable Diameter	15.5
Cable Diameter Tolerance	± 1.0
Cable Weight	225
Cable Weight Tolerance	± 20
Rate Tensile Strength (RTS)	7.5
Maximum Allowable Tension (MAT) (40%RTS)	3
Everyday Stress (EDS) (20%RTS)	1.5
Strain Margin Strength (60%RTS)	4.5
Crush	4000
Minimum Bending Radius (Installing)	20xD
Minimum Bending Radius (Operating)	15xD
Installation Tensile Strength (≤20%RTS)	1.5
Working Temperature	(-)40 >> (+)70
Installation Temperature	(-)10 >> (+)60
Aarmor Type	MA
Jacket Type	DJ
Jacket Material	HDPE/HDPE
TRS	N/A
Fiber & Tube CC	CC-EIA598-A
Packing	Wooden Drum
Delivery Lengths	To be confirmed by offer
Delivery Length Tolerance	±5

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### Optical Fiber Core Characteristics

Core Type	G.652D
Attenuation Coefficient at 1310 nm Max.	≤ 0.36
Attenuation Coefficient at 1550 nm Max.	≤ 0.23
Attenuation Coefficient at 1625 nm Max.	N/A
Chromatic Dispersion between 1285 - 1330 nm	≤ 3.5
Chromatic Dispersion at 1550 nm	≤ 18
Chromatic Dispersion at 1625 nm	N/A
Point Discontinuity at 1310 & 1550 nm	≤ 0.1
Polarization Mode Dispersion (PMD Individual)	≤ 0.2
Polarization Mode Dispersion (Link Design)	≤ 0.08
The uniformity attenuation at any projected wavelength	≤ 0.1
Cable Cut off Wavelength ( $\lambda_{cc}$ )	≤ 1260
Mode Field Diameter at 1310 nm	9.2 ± 0.4
Mode Field Diameter at 1550 nm	10.4 ± 0.5
Cladding Diameter	125 ± 1.0
Cladding Non-Circularity	≤ 0.7
Core / Cladding Concentricity error	≤ 0.5
Coating Diameter	250 ± 7
Coating / Cladding Concentricity error	≤ 12

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