



Product: [GWRTF12](#)

Outdoor Wind Tower tight buffered OFC: GLASS YARNS (impr. rodent protection) PE jacket 12f SM OS2 G.657.A2.

Product Description

Outdoor Wind Tower tight buffered optical fiber cable with glass yarns as strength member and improved rodent protection with Polyethylene outer jacket. 12 fibers SM OS2 G.657.A2.

Technical Specifications

Product Overview

Construction Type:	Distribution
Environmental Space:	Indoor/Outdoor
Suitable Applications:	For outdoor and indoor use in structured (data) wiring systems such as industrial backbone, campus backbone, building backbone (riser) and/or horizontal cabling. For outdoor and indoor use in networks for industrial, telecom, cable TV and/or broadcast. Support all computer network applications such as FDDI, Gigabit Ethernet and ATM. Not suitable for blown installation.

Construction

Fiber Cable Construction

Fiber Type	Fiber Grade acc. ITU-T	Fiber Count
OS2	G.657A2	12

Fiber Color Coding: TIA coding (Gxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua

Buffer Specification

Fiber Type	Buffer Construction	Buffer Material	Buffer Diameter
OS2	Tight	LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.9 mm

Cable Core Water Tight: Yes

Cable Core Waterblocking: Waterblocking Aramid Yarns + Glass Yarns

Bulk Cable Weight: 126 kg/km

Jacket Specifications

Number of Jackets:	Double Jacket
Type of Armor:	Non-Armored

Inner Jacket

Color:	Black
Material:	PUR - Polyurethane

Outer Jacket Specifications

Outer Jacket

Material	Color	Nominal Diameter	Ripcord
PUR - Polyurethane	Black	11.2 mm	Yes

Table Notes: Standard color: Black. Available colors: Orange, Yellow, Turquoise, Erika Violet, Red, Blue, Green, Brown, Violet, Pink, Grey, White, Black, Lime Green

Optical Characteristics

Max. Attenuation at 1310 nm:	0.40 dB/km
Max. Attenuation at 1550 nm:	0.30 dB/km
Max. Attenuation at 1625 nm:	0.30 dB/km

Mechanical Characteristics

Mechanical Tests

Description	Tested Standard	Requirement/Value	According to Family Specification
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E6	89.6 mm	IEC 60794-2-20
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	44.8 mm	IEC 60794-2-20
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	1260 N (283 lbf)	IEC 60794-2-20
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	5 kN/m	IEC 60794-2-20
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	3 kN/m	IEC 60794-2-20
Cable Torsion Resistance	IEC 60794-1-21-E7	130°, 1 m, 20000 cycles	IEC 60794-2-20

Temperature Range

Operating Temperature Range:	-30 °C to +70 °C
Installation Temperature Range:	-5 °C to +50 °C
Storage Temperature Range:	-30 °C to +70 °C

Standards

UL Rating/Flame Test:	Non-UL Rated
IEC Flammability:	IEC 60332-1-2
Reaction to Fire - Bundle Flame Test:	IEC 60332-3-24
IEC 60754-1 - Halogen Amount:	Zero
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:	10 µS/mm
IEC 60754-2 - Halogen Acid Gas Amount - Min. pH:	4.3
REACH:	Compliant
ISO/IEC Compliance:	IEC 60794, ISO/IEC 11801-1
EU Directive 2011/65/EU (RoHS 2):	Compliant
UV/ Sunlight Protection:	Yes

History

Update and Revision:	Revision Number: 0.12 Revision Date: 09-17-2024
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