



**Product:** [GWRTA12](#) 

Outdoor Wind Tower tight buffered OFC: GLASS YARNS (impr. rodent protection) PE jacket 12f SM OS2 G.652.D & G.657.A1.

## 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.652.D & G.657.A1.

## 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.652D & G.657A1	12

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