



Product: <u>GQWNF12</u> ☑

Universal OFC CLT (jelly filled): GLASS YARNS + LSZH + SWA + LSZH (HIGH TEMP) with 1 Tube of Ø3.3mm 12f SM OS2 G.657.A2.

Product Description

Universal (Indoor/Outdoor) high installation temperature optical fiber Central Loose Tube (jelly filled tube) cable with glass yarns as strength member, Low Smoke Zero Halogen inner jacket, Steel Wire Armouring (Full Rodent Protected) armor and Low Smoke Zero Halogen outer jacket. Product feature: This cable has improved rodent protection by Steel Wire Armouring (Full Rodent Protected). Existing out of 1 Tube with a diameter of 3.3mm with 12 fibers SM OS2 G.657.A2.

Technical Specifications

Product Overview

Construction Type:	Central Loose Tube
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. Easy to install in ducts, tunnels and trenches and/or tubes. Suitable for Direct Burial.

Construction

Fiber Cable Construction

Fiber Type	Fiber Grade acc. ITU-T	Fiber Count	Subunit Color
OS2	G.657A2	12	TIA coding (Gxxxxxx.T): Natural
Fiber Color Coding: TIA coding (Gxxxxxx.T): Blue, Orange, Green, Brown, Gray, White, Red, Black, Yellow, Violet, Pink, Aqua			
Cable Core Water Tight: Yes			
Cable Core Waterblocking: Waterblocking Glass Yarns			
Bulk Cable \	Bulk Cable Weight: 154 kg/km		

SubUnit Specifications

Number of Active Subunits:	1
Number of Subunit Positions:	1
Fibers Per Subunit:	12
Subunit Diameter:	3.3 mm
Subunit Waterblocking:	Gel Filled

Jacket Specifications

Number of Jackets:	Double Jacket
Type of Armor:	Steel Wire

Inner Jacket

Nom. Diameter:	5.8 mm
Material:	LSZH - Low Smoke Zero Halogen (Flame Retardant)

Outer Jacket Specifications

Outer Jacket

	Material		Nominal Diameter	Ripcord
	LSZH - Low Smoke Zero Halogen (Flame Retardant		10.2 mm	Yes
I	Table Notes:	Standard color	: Black. Available col	ors: Black,

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	192 mm	IEC 60794-3-10	
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	192 mm	IEC 60794-3-10	
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	1500 N (337 lbf)	IEC 60794-3-10	
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	500 N (112 lbf)	IEC 60794-3-10	
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	22 kN/m	IEC 60794-3-10	
Cable Max. Crush Resistance Operation (Long Term)	IEC 60794-1-21-E3	11 kN/m	IEC 60794-3-10	

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 RatedIEC Flammability:IE 600332-1-2Reaction to Fire - Bundle Flame Rest:IC 600332-3-22IEC 60754-2 - Halogen AnounceZooIEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Halogen Acid Gas Armount - Min. Phil.In pin.IEC 60754-2 - Main Armount - Min. Phil.In pin. <th></th> <th></th>		
Reaction to Fire - Bundle Flame Test:Co0332-322IEC 60754.1 - Halogen Action IEC 60754.2 - Halogen Action Axonunt - Max. Conductivity:ZeroIEC 60754.2 - Halogen Action Axonunt - Max. Conductivity:0 µS/mmIEC 60754.2 - Halogen Action Axonunt - Min. pH:3.3IEC 60134.2 - Smoke Density Min. Fransmittance:0.9IEC 60134.2 - Smoke Density Min. Fransmittance:0.9REACH:ComplianceISO/IEC Compliance:E 60794, ISO/IEC 11801-1IEU Driective 2011/65/EU (Roberts)Compliant	UL Rating/Flame Test:	Non-UL Rated
Test:IEC 0032-3-22IEC 00754-1 - Halogen Amount:ZeroIEC 60754-2 - Halogen Acid Gas1μS/mmIEC 60754-2 - Halogen Acid Gas3.3IEC 61034-2 - Smoke Density Min. Transmittance:0%REACH:CompliantISO/IEC Compliance:IEC 60794, ISO/IEC 11801-1ISO/IEC Compliance:CompliantISO/IEC UNIONSCompliantISO/IEC UNIONSCompliantIS	IEC Flammability:	IEC 60332-1-2
IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity:10 μS/mmIEC 60754-2 - Halogen Acid Gas Amount - Min. pH:4.3IEC 61034-2 - Smoke Density Min. Transmittance:60%REACH:CompliantISO/IEC Compliance:IEC 60794, ISO/IEC 11801-1EU Directive 2011/65/EU (RoHS z)Compliant		IEC 60332-3-22
Amount - Max. Conductivity: In particular IEC 60754-2 - Halogen Acid Gas Amount - Min. pH: 4.3 IEC 61034-2 - Smoke Density Min. Transmittance: 60% REACH: Compliant ISO/IEC Compliance: IEC 60794, ISO/IEC 11801-1 ISO/IEC Compliance: Compliant ISO/IEC Compliance: Compliant	IEC 60754-1 - Halogen Amount:	Zero
Amount - Min. pH: 4-3 IEC 61034-2 - Smoke Density Min. Transmittance: 60% REACH: Compliant ISO/IEC Compliance: IEC 60794, ISO/IEC 11801-1 EU Directive 2011/65/EU (RoHS2): Compliant		10 μS/mm
Transmittance: 00 /00 REACH: Compliant ISO/IEC Compliance: IEC 60794, ISO/IEC 11801-1 EU Directive 2011/65/EU (RoHS 2): Compliant		4.3
ISO/IEC Compliance: IEC 60794, ISO/IEC 11801-1 EU Directive 2011/65/EU (RoHS 2): Compliant		60%
EU Directive 2011/65/EU (RoHS 2): Compliant	REACH:	Compliant
	ISO/IEC Compliance:	IEC 60794, ISO/IEC 11801-1
UV/ Sunlight Protection: Yes	EU Directive 2011/65/EU (RoHS 2):	Compliant
	UV/ Sunlight Protection:	Yes

History

Update and Revision: Revision Number: 0.41 Revision Date: 09-17-2024

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