

MIC™ Gel-free Loose Tube Indoor Cables 4x12 E9/125 SMF-28® Ultra LT 2.0

CORNING

Part Number: 048ZPZ-T3120J2G

Flame retardant MIC cables can be deployed indoor as building backbone (riser) cabling as well as for horizontal cabling.

The loose tube cable construction, by isolating the fibers from installations and environmental rigors, provides stable and highly reliable transmission parameters.

The innovative dry, gel-free design with water-blocking technology eliminates the need for traditional flooding compound, providing more efficient and craft-friendly cable preparation.

The SZ-stranded construction further reduces installation and environmental influences on the transmission parameters and allows mid-span access.

The cables can be installed in conduits and shafts inside buildings.

Features and Benefits

Dry, gel-free tube

Minimal cleaning, easy cable preparation

All-dielectric cable construction

Requires no grounding or bonding

Small diameter and bend radius

Easy installation in space-constrained areas

UV- and microbe-resistant

Can be installed in ducts or conduits

Fibres colour coding to Telcordia-Bellcore

Easy identification of the individual fibres

Silicon-free outer jacket

Cable jacket is free of components harmful to paint structures

Flame retardant

LSZH™ /FRNC



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Specifications

Mechanical Specifications	
Crush resistance	2000 N/10 cm
Fire load	1.7 MJ/m
Min. bend radius installation	174 mm
Min. bend radius operation	130 mm
Nominal outer diameter	8.7 mm

Cable Design	
Central element	Dielectric
Fibre count	48
Buffer tube colour coding	Blue, orange, green, brown
Number of ripcords	1
Outer jacket colour	Ivory
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket nominal thickness	1.2 mm
Buffer tube colour	Blue, orange, green, brown
Buffer tube diameter	1.95 mm
Central element diameter	2.5 mm
Filling element colour	Natural
Number of active tubes	4
Number of filling elements	2
Number of tube positions	6
Tape	Water-swellaible
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12

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Environmental Conditions

Temperature range, installation	-5 °C to 50 °C (23 °F to 122 °F)
Temperature range, operation	-30 °C to 70 °C (-22 °F to 158 °F)
Temperature range, storage	-40 °C to 70 °C (-40 °F to 158 °F)

General Specifications

Environment	Indoor
Cable type	Loose tube
Product type	Dielectric armour
Fibre category	SMF-28® Ultra fibre
Flame rating	LSZH™/FRNC
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	J-BQ(ZN)H
Application	Duct , Vertical Riser , General Purpose Horizontal

Ordering Information

Weight	71 kg/km
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Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Waterblocking	IEC 60794-1-2 F5
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable) and IEC 60332-3-24 (bunch of cables)
Reaction to fire requirements	Reaction to fire according to EN 50575 and EN 13501-6
Smoke density	Low Smoke to IEC 61034
Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

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Optical Characteristics	
Cable cutoff wavelength	1260 nm
Fibre code	Z
Fibre name	SMF-28® Ultra TB Cable Optical Fibre
Fibre Type	Single-mode
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1
Cladding diameter	125 µm
Dispersion @ 1550 nm	18 nm
Dispersion in the range 1285 to 1330 nm	3.5 nm
Maximum Attenuation	0.38 dB/km / 0.38 dB/km / 0.25 dB/km
Mode-Field Diameter at 1310 nm	9.2 µm
Serial 1 gigabit ethernet	5000 MHz*km / - / -
Serial 10 gigabit ethernet	10000 MHz*km / 40000 MHz*km
Wavelengths	1310 nm / 1383 nm / 1550 nm
PMD Link Design Value	0.04 ps/(nm*km)
PMD maximum individual fibre	0.1 ps/(nm*km)
Coating diameter	242 µm



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