

Loose Tube Dielectric Armour Indoor/Outdoor Cable

4x12 E9 SMF-28e+® ITU G652.D LT 2.3

CORNING

Corning MPC (multi-purpose cable) stranded loose tube cables are flame-retardant, indoor/outdoor cables designed for interbuilding and intrabuilding backbones in duct and riser applications.

The loose tube cable construction, by isolating the fibers from installations and environmental rigors, provides stable and highly reliable transmission parameters. The buffer tubes and fibers in each tube are colour coded for quick, easy identification.

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

These cables are designed for installation in conduits, ducts and in-house.

Features and Benefits

All-dielectric cable construction

Requires no grounding or bonding

UV- and microbe-resistant

Can be installed in ducts or conduits

Waterblocking technology

OSP (outdoor) applications

Dry cable core by means of water-swellable tape and elements

Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications

Laminated glass yarns

For improved rodent resistance

Fibres/buffer tubes colour coded to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

Silicon-free outer jacket

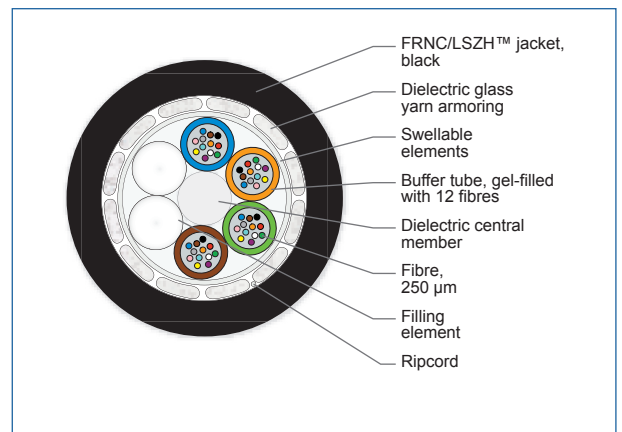
The cable jacket is free of harmful to paint structures

Flame retardant

LSZH™/FRNC



Part Number: 048ERU-T3122A2G



Cross Section of Order Number: 048ERU-T3122A2G

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Standards

Flame Test Method	Flame retardant to IEC 60332-1-2 (single cable)
	Reaction to fire according to EN 50575 and EN 13501-6
	Low Smoke to IEC 61034 and Zero Halogen to IEC 60754-1
	Non-corrosive to IEC 60754-2
Waterblocking	IEC 60794-1-2 F5

Specifications

General Specifications	
Environment	Indoor/Outdoor Universal Cable
Application	Duct, Vertical Riser, General Purpose Horizontal
Cable type	Loose Tube
Product type	Dielectric armour
Flame rating	LSZH™/FRNC
Fibre category	SM (OS2)
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	U-DQ(ZN)BH
Previous part number	LCXLM1-D4048-U702
Previous coding following DIN VDE 0888-3	A-DQ(BN)H
Product category	Core product / Fastship
Reaction to fire	Eca

Temperature Range	
Installation and assembly	-5 °C to 50 °C
Operation	-30 °C to 70 °C
Storage	-40 °C to 70 °C

Cable Design	
Central element	Dielectric
Central element diameter	2.5 mm
Fibre count	48

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Cable Design

Fibre colouring	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Fibres per tube	12
Number of tube positions	6
Number of active tubes	4
Buffer tube colour coding	Blue, orange, green, brown
Buffer tube diameter	2.25 mm
Number of filling elements	2
Filling element colour	Natural
Tape	Water-swellable
Tensile Strength Elements and/or Armouring - Layer 1	Laminated glass yarn armour
Number of ripcords	1
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket colour	Black
Outer jacket nominal thickness	1.5 mm
Cable marking	Metre - Handset - CE 17 EN 50575 Eca - Sine - CORNING - Fibre Optic Cable - Year - U-DQ(ZN)BH 48 E9 LT 2.3 LSZH(TM)/FRNC

Mechanical Characteristics Cable

Nominal Outer Diameter	10.9 mm
Weight	117 kg/km
Min. Bend Radius Installation	215 mm
Min. Bend Radius Operation	160 mm
Max. tensile strength for installation	4000 N
Crush resistance (reversible)	2000 N/10 cm
Fire Load	2.4 MJ/m

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Fibre Specifications

Optical Characteristics (cabled)	
Fibre name	E9/125 SMF28e+®
Fibre core diameter	8.2 µm
Fibre category	OS2
Fibre code	E
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Serial 1 gigabit ethernet	5000 m / - / -
Serial 10 gigabit ethernet	10000 m / - / 40000 m
Cable cutoff wavelength	1260 nm
Standards in compliance	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2

Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibres available on request.
4) Contact a Corning Customer Care Representative for additional information

Ordering Information

Part Number	048ERU-T3122A2G
Product Description	Loose Tube Dielectric Armour Indoor/Outdoor Cable 4x12 E9 SMF-28e+® ITU G652.D LT 2.3, Eca
EAN Code	4042673306191

Shipping Information

Maximum delivery length	6,000 m
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