



**Product:** [NKXU50MA012BKAA](#)

Indoor & Outdoor Gel Filled Core Loose Tube Cable, OM2, 12 Fibers, CSTA

### Product Description

Indoor & Outdoor Gel Filled Core Loose Tube Cable, OM2 , 12 Fibers, Corrugated Steel Tape Armor, PE Black Inner Jacket, LSZH Black Outer Jacket

### Technical Specifications

#### Product Overview

Construction Type:	Multi 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 Count	Subunit Color
OM2	12	Blue, Orange, Filler, Filler, Filler, Filler, Filler, Filler

Fiber Color Coding:	TIA-598-D
---------------------	-----------

##### Buffer Specification

Buffer Material
PBT – Polybutylene Terephthalate

Central Strength Member:	GRP
Cable Core Waterblocking:	Gel Filled
Bulk Cable Weight:	330 kg/km

#### SubUnit Specifications

Fibers Per Subunit:	6
Subunit Waterblocking:	Gel Filled

#### Jacket Specifications

Number of Jackets:	Double Jacket
Type of Armor:	Corrugated Steel Tape

#### Inner Jacket

Color:	Black
Nominal Wall Thickness@InnerJacket1:	0.9 mm
Material:	PE - Polyethylene

#### Outer Jacket Specifications

##### Outer Jacket

Material	Color	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Black	15.8 mm	2.0 mm

#### Optical Characteristics

Fiber Core Diameter:	50 µm
Max. Attenuation at 1300 nm:	1.0 dB/km
Max. Attenuation at 850 nm:	3.0 dB/km

## Mechanical Characteristics

### Mechanical Tests

Description	Tested Standard	Requirement/Value
Cable Min. Bend Radius Installation (Short Term)	IEC 60794-1-21-E11	25 x Cable OD
Cable Min. Bend Radius Operation (Long Term)	IEC 60794-1-21-E11	12.5 x Cable OD
Cable Max. Tensile Strength Installation (Short Term)	IEC 60794-1-21-E1	3000 N (674 lbf)
Cable Max. Tensile Strength Operation (Long Term)	IEC 60794-1-21-E1	1000 N (225 lbf)
Cable Max. Crush Resistance Installation (Short Term)	IEC 60794-1-21-E3	3000 N/100mm

### Temperature Range

Operating Temperature Range:	-40 °C to +70 °C
Storage Temperature Range:	-40 °C to +70 °C

### Standards

IEC Flammability:	IEC 60332-1-2
TIA/EIA Compliance:	EIA/TIA-455
ISO/IEC Compliance:	IEC 60793, IEC 60794-1
RoHS:	Yes
EU Directive 2011/65/EU (RoHS 2):	Compliant
UV/ Sunlight Protection:	Yes

### History

Update and Revision:	Revision Number: 0.22 Revision Date: 04-08-2022
----------------------	-------------------------------------------------

© 2023 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.