



ZAKŁAD DOŚWIADCZALNY BUDOWNICTWA ŁĄCZNOŚCI Sp. z o.o.
04-379 Warszawa ul. Mycielskiego 20
Tel/Fax: 22 8797769
e-mail: zdbl@supermedia.pl
www.teleconstruction.pl

Date: 31.10.2019
Sign: 18/10/19

FIBRAIN Sp. z o.o.
36-062 Zaczernie 190F, Poland

OPINION

on FIBRAIN optical fiber cables

- Product name:* DATACOM FIBRAIN optical fiber.
- Product application:* For data transmission easy termination indoor, duct outdoor, self-supporting, also with Cu wires.
- Assessment criteria:*
- PN-EN 60794-1-1:2016-06 Optical fiber cables. Part 1-1: Generic specification. General.
 - PN-EN 60793-2-10:2018-03 Optical fibres. Part 2-10: Product specifications. Sectional specification for category A1 multimode fibres.
 - PN-EN IEC 60793-2-50:2019-05 Optical fibres. Part 2-50: Product specifications. Sectional specification for class B single-mode fibres (IEC 60793-2-50:2018).
 - PN-EN IEC 60793-1-40:2019-07 Optical fibres. Part 1-40: Attenuation measurement methods (IEC 60793-1-40:2019).
 - PN-EN 60332-1-2:2010/A11:2017-02 Tests on electric and optical fibre cables under fire conditions Test for vertical flame propagation for a single insulated wire or cable.
 - PN-EN 50575:2015-03 Power, control and communication cables. Cables for general applications in construction works subject to reaction to fire requirements.
 - PN-EN 50399:2011 Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test. Test apparatus, procedures, results.
 - PN-EN 60754-2:2014-11 Test on gases evolved during combustion of materials from cables -- Part 2: Determination of acidity (by pH measurement) and conductivity.
 - PN-EN 61034-2:2010 Measurement of smoke density of cables burning under defined conditions. Part 2: Test procedure and requirements.
 - ZN-OPL-005-1/14 Optotelecommunication cable lines. Part 1. Optical fibers. Requirements and tests.

- ZN-OPL-005-2/17 Optotelecommunication cable lines. Part 2. Optical fiber cables Requirements and tests.

Confirmation of technical compliance:

On a basis of supplied documents and results of tests performed herewith we confirm that products comply with requirements of standards given above and they may be installed in optotelecommunication networks.

General characteristics:

- Type (Model):
 - BFR; SIMPLEX SMX; DUPLEX ZIP; LDC; LBR; DC-PRIM; DC-DRIM; EXO-CU; EXO-C0; EXO-CI; EXO-GU; EXO-G0; EXO-GI; EXO-FU; EXO-FI; BDC-SSA; BDC-MSA;
- Optical fiber type:
 - SMF 9/125 (ITU.T-G652D, G655, G.657A1, G657A2, G657B3),
 - MMF 50/125 OM2, OM3, OM4, OM5, 62,5/125 OM1;
- Fiber count: 1 – 144;
- Design:
 - optical fiber in tight, semi-tight or easy-strip secondary coating,
 - fiber bundle in acrylate coating,
 - loose tube,
 - mono- or multitube design,
 - with Cu wires with polyethylene or polyvinyl chloride insulation,
 - with central strength member,
 - reinforced with aramid or glass yarns,
 - dry cable core,
 - single flame retardant non-halogen jacket (LSOH),
 - double flame retardant non-halogen jacket (LSOH-LSOH),
 - single polyethylene jacket (PE).

Date of validity of the opinion: 31.10.2021

DYREKTOR
Zakładu Doświadczalnego
Budownictwa Łączności Sp. z o.o.

inż. Piotr Kowalski