



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: 04.11.2019
Sign: 20/11/19

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

OPINION

on FIBRAIN optical fiber cables

- Product name:* FIBRAIN optical fiber hybrid cables
- Product application:* To be laid in cable ducts, cable pipelines, technological ducts.
- 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 60794-3-10:2015-03 Optical fibre cables. Part 3-10: Outdoor cables. Family specification for duct, directly buried or lashed aerial optical telecommunication cables.
 - PN-EN 60228:2007 Veins of wires and cables.
 - PN-EN 50363-3:2010/A1:2011 Insulating, sheathing and covering materials for low voltage energy cables. Part 3: PVC insulating compounds.
 - PN-EN 50525-2-31:2011 Electric cables. Low voltage energy cables of rated voltages up to and including 450/750 V (U0/U). Part 2-31: Cables for general applications. Single core non-sheathed cables with thermoplastic PVC insulation.
 - 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):
 - BDC-CIP, BDC-DID, BDC-DIP.
- Optical fiber type:
 - SMF 9/125 (ITU.T-G652D, G.657A1, G657A2,G657B3),
 - MMF 50/125 OM2, OM3, OM4, OM5, 62,5/125 OM1;
- Fiber count: 4-96;
- Design:
 - loose tube, construction xT4F, xT6F, xT8F, xT12F, xT24F,
 - with central member,
 - reinforced with glass or aramid yarns,
 - dry cable core,
 - single polyethylene jacket (PE),
 - insulated stranded copper conductors.

Date of validity of the opinion: 04.11.2021

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

inż. Piotr Kowalski