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Date: 04.11.2019  
Sign: 19/11/19

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

## OPINION

### on FIBRAIN optical fiber cables

- Product name:* FTTH FIBRAIN optical fiber cables.
- Product application:* Optical cables to be installed in distribution networks and customer connections.
- 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):
  - EAC-RAm, EAC-RAs, VC-D20, VC-D30, VC-D40, VC-DCY, DC-PRIM, DC-DRIM, VC-T60, VC-DD, DC-PRIM,
- 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 – 576;
- Design:
  - fiber bundle in acrylate coating,
  - optical fiber in tight, semi-tight or easy-strip secondary coating,
  - Easy Section Module ESM®,
  - dry cable core,
  - reinforced aramid yarns,
  - with side-placed in-jacket fiber reinforced polymer,
  - single low smoke zero-halogen jacket (LSOH),
  - double jacket - LSOH inner sheath, HDPE – UV resistant outer sheath.

*Date of validity of the opinion:* 04.11.2021

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

*inż. Piotr Kowalski*