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Date: 31.10.2019
Sign: 16/10/19

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

OPINION

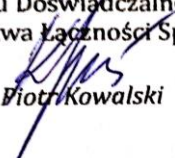
on FIBRAIN optical fiber cables

- Product name:* Telecommunication aerial optical cables.
- Product application:* To be laid on a substructure of overhead telecommunication.
- Assessment criteria:*
- PN-EN 60794-1-1:2016-06 Optical fiber cables. Part 1-1: Generic specification. General.
 - 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 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).
 - 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):
 - AERO-AS, AERO-DF; AERO-DDF; AERO-DR; VC-T, AERO-AD, AERO-ASP;
- 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 – 288F;
- Design:
 - loose tube, stranded design xT4F, xT6F, xT8F, xT10F, xT12F,
 - with central strength member,
 - reinforced with aramid yarns,
 - dry cable core with waterblocking elements,
 - single polyethylene jacket (PE) UV resistant,
 - central tube 1-24F,
 - with side-placed in-jacket glass rods,
 - with waterblocking elements,
 - inner LSOH sheath, HDPE – UV resistant outer sheath,
 - Easy Section Module ESM®.

Date of validity of the opinion: 31.10.2021

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

inż. Piotr Kowalski