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Date: 04.11.2019
Sign: 21/11/19

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

OPINION

on FIBRAIN optical fiber microcables

- Product name:* FIBRAIN optical fiber microcables.
- Product application:* Telecommunication microcables to be installed in microducts by blowing.
- Assessment criteria:*
- PN-EN 60794-5:2017-03 Optical fiber cables. Part 5: Sectional specification. Microduct cabling for installation by blowing.
 - 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.
 - PN-EN 60794-5-10:2014-09 Optical fibre cables. Part 5-10: Family specification. Outdoor microduct optical fibre cables, microducts and protected microducts for installation by blowing.
 - PN-EN 60794-5-20:2014-10 Optical fibre cables. Part 5-20: Family specification. Outdoor microduct fibre units, microducts and protected microducts for installation by blowing.
 - PN-EN IEC 60793-1-40:2019-07 Optical fibres. Part 1-40: Attenuation measurement methods.
 - PN-EN 60794-1-1:2016-06 Optical fiber cables. Part 1-1: Generic specification. General.
 - 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):
 - MK-AX; MK-BX; MK-CX; MK-DX; MK-LX; MK-LXS; MK-UX;
- 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: 2 – 288;
- Design:
 - loose microtube or fiber bundle in acrylate coating,
 - mono or multitube design,
 - multitube with a central member, possible aramid yarns reinforcement,
 - dry cable core,
 - single polyethylene (PE) jacket,
 - single poliamid (PA) jacket,
 - double or triple acrylate jacket.

Date of validity of the opinion: 04.11.2021

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

inż. Piotr Kowalski