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Sign: PK-19/15

FIBRAIN Sp. z o.o.  
ul. Wspólna 4a  
35-205 Rzeszów, 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 187000:2001 Generic Specification: Optical fibre cables.
  - PN-EN 60794-3-10:2009 Optical fiber cables Part 3-10: Outdoor cables – Family specification for duct, directly buried or lashed aerial optical telecommunication cables.
  - PN-EN 60793-2-10:2011 Optical fibres - Part 2-10: Product specifications - Sectional specification for category A1 multimode fibres.
  - PN-EN 60793-2-50:2013-12 Optical fibres - Part 2-50: Product specifications - Sectional specification for class B single-mode fibres.
  - ZN-14/OPL-005-1 Optotelekomunikacyjne linie kablowe. Część 1: Włókna światłowodowe. Wymagania i badania – (Optotelecommunication cable lines. Part 1. Optical fibers. Requirements and tests).
  - ZN-14/OPL-005-2 Optotelekomunikacyjne linie kablowe. Część 2: Kable światłowodowe. Wymagania i badania. (Optotelecommunication cable lines. Part 2. Optical fiber cables).
- 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; BDC-SSA; BDC-MSA; BDC-CIP;
- Optical fiber type:
  - SMF 9/125 (ITU.T-G652D, G655, G.657A1, G657A2, G657B3),
  - MMF 50/125 OM2, OM3, OM4, 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:* 20.04.2017

DYREKTOR  
Zakładu Doświadczalnego  
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*inż. Piotr Kowalski*