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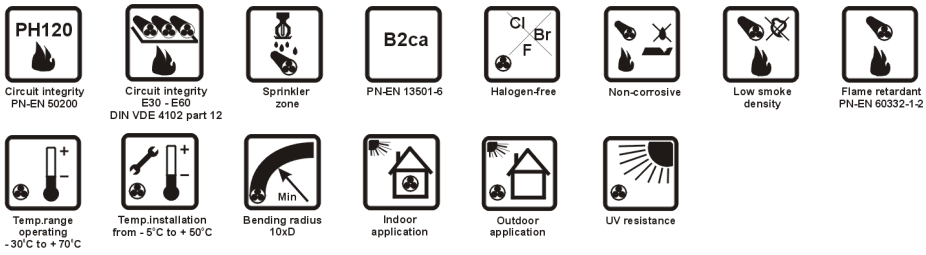
# TECHNOFLAME
# FOC-2-SLT-HFFR PH120/E30-E60 50/125 OM2





## APPLICATIONS

**FOC-2-SLT-HFFR PH120/E30-E60 50/125 OM2** is fire resistant and water-proof fiber optic cable with one central loose tube (up to 6 fibres) intended for use in fire alarm and fire automatic control systems. Cable can be installed in the buildings, tunnels and underground.

Halogen-free cable, applied when higher safety in case of fire is required. The cable is flame retardant, its smoke emission in fire is low and released gases are not corrosive.

Fibreglass yarns armour provides enhanced protection against mechanical damages and rodent attack. It's also prevent water from reaching the cable core.

The cables are certified by **Scientific and Research Development Centre for Fire Protection** (Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej) at Józefów.

The cables are resistant to water in accordance with the standard PN-EN 50200 Annex E. **FOC-2-SLT-HFFR PH120/E30-E60 50/125 OM2** cables can be used in fire protected rooms with fixed pressure water spraying fire extinguishing systems (**sprinkler zones**).

The cables are suitable for indoor and outdoor installations.

## CONSTRUCTION

- coloured multi-mode fibres 50/125 OM2,
- loose tube (gel filled) (up to 6 fibres in one tube, colours: red, green, blue, yellow, white, gray), diameter 2,5 ± 0,5 mm,
- double fireproof layer,
- water swelling glass yarns reinforcement,
- red cable outer sheath made of halogen free compound (HFFR) UV stabilized.

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## CHARACTERISTICS

| | |
|---|---|
| **Attenuation coefficient max** | |
| for 850 nm | ≤ 2.5 dB/km |
| for 1300 nm | ≤ 0.6 dB/km |
| **Core diameter** | 50 µm |
| **Cladding diameter** | 125 µm |
| **Coating diameter** | 250 µm |
| **Operating temperature range:** | |
| after installation | from - 30 to + 70°C |
| during installation | from - 5 to + 50°C |
| **Minimum bending radius:** | |
| static | 10 x cable diameter |
| dynamic | 15 x cable diameter |
| **Maximum pulling tension** | |
| after installation | 1500 N |
| during installation | 2000 N |
| **Crush resistance** | |
| continuous | 2000 N |
| short term | 5000 N |
| **Corrosivity of emitted gases per** | PN-EN 60754-1/-2, IEC 60754-1/-2 |

| | |
|---|---|
| pH | >4.3 |
| conductivity | <2.5 µS/mm |
| **Smoke density** | PN-EN 61034-2, IEC 61034-2 |
| **Light transmittance, minimum** | 80% |
| **Cable combustibillity** | flame retardant |
| **Combustibillity tests** | PN-EN 60332-1-2, IEC 60332-1-2 |
| **System circuit integrity acc. to PN-EN 50582*:** | |
| up to 60 min (E30-E60) | DIN 4102-12 |
| P60-R | CSN 73 0895 |
| PS 60 | STN 92 0205 |
| PH120 | PN-EN 50200 + Annex E |
| **Referance standards** | CNBOP-PIB-KOT-2020/2025/0196-3701 wyd.1, WT-TK-51, |
| **Reaction to fire (PN-EN 13501-6)** | B2ca-s1a,d0,a1 |
| **KDWU declarations are available at** | technokabel.com.pl |

(*) The maximum change in attenuation of optical fibers according to PN-EN 50582 is 2 dB/m and depends on the cable installation method.

**Cable installation** - should be carried out on a certified cable fastening system, in accordance with the National Technical Assessments (KOT) issued for fastening manufacturers. Only certified cable fixing systems shall be used. Systems certified according to DIN 4102 part 12 or PN-EN 50200.

## INSTALLING CABLES IN CABLE ASSEMBLIES

| Manufacturer | Circuit integrity | Cable supporting system |
|---|---|---|
| BAKS | 30 min (E30) | KDS/KDSO60H60; KDS/KDSO400H60 - mash trays with supports at 1500 mm spacing, |
| BAKS | 30 min (E30) | KFL50H60 - trays with supports at 1500 mm spacing |
| BAKS | 30 min (E30) | OZM, KSA - cables group hangers at 600 mm spacing, |
| BAKS | 60 min (E60) | UDF - cable clips at 300 mm spacing |
| OBO BETTERMANN | 30 min (E30) | 1015-8 - cable clips at 300 mm spacing |
| OBO BETTERMANN | 30 min (E30) | GRM 55 50 – trays with supports at 1500 mm spacing |

| Product No. | No of fibres | Tube diameter | Cable outer diameter (appr.) | Cable weight (appr.) |
|---|---|---|---|---|
| | | mm | mm | kg/km |
| 2000 001 | 4x50/125 OM2 | 2.5 ± 0.5 | 7.8 | 80 |
| 2000 007 | 6x50/125 OM2 | 2.5 ± 0.5 | 7.8 | 81 |

Other number of fibres counts available on request
TECHNOKABEL SA reserves the right to change specifications without prior notice.