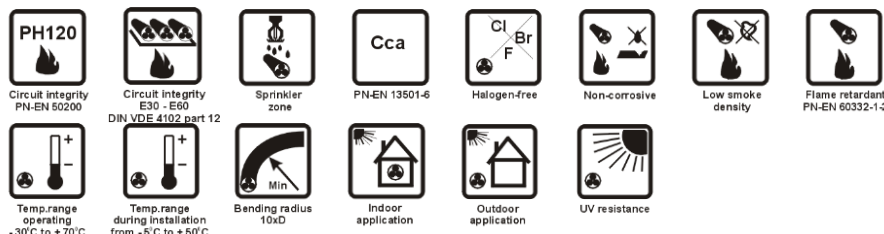


TECHNOFLAME FOC-2-SLT-HFFR PH120/E30-E60 50/125 OM2

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FIBRE OPTIC SAFETY CABLES



APPLICATIONS

TECHNOFLAME 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 Przeciwpozarowej) at Józefów.

The cables are resistant to water in accordance with the standard PN-EN 50200 Annex E. **TECHNOFLAME 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 $2,5 \pm 0,5$ mm,
- double fireproof layer,
- water swelling glass yarns reinforcement,
- reinforcement wrapped in a mica tape,
- red cable outer sheath made of halogen free compound (HFFR) UV stabilized.

CHARACTERISTICS

Attenuation coefficient max			
at 850 nm	≤ 2.3 dB/km;	Corrosivity of emitted gases per	PN-EN 60754-1/-2,
at 1300 nm	≤ 0.5 dB/km;	pH,	IEC 60754-1/-2
Core diameter	50 μ m	conductivity,	>4.3
Cladding diameter	125 μ m	Smoke density	<2.5 μ S/mm
Coating diameter	250 μ m	light transmittance, minimum	PN-EN 61034-2, IEC 61034-2
Operating temperature range		Cable combustibility	80%
after installation	from - 30 to + 70°C	Cable combustibility	flame retardant
during installation	from - 5 to + 50°C	Combustibility tests	fire resistant
Minimum bending radius		System circuit integrity acc. to PN-EN 50582 ¹⁾ :	PN-EN 60332-1-2, IEC 60332-1-2
static	10 x cable diameter	do 60 min (E30-E60)	
dynamic	15 x cable diameter	P60-R	DIN 4102-12
Maximum pulling tension		PS 60	CSN 73 0895
after installation	1500 N	PH120	STN 92 0205
during installation	2000 N	Reference standards	PN-EN 50200 + Annex E
Crush resistance		Reaction to fire	CNBOP-PIB-KOT-2020/0196-3701
continuous	2000 N	(PN-EN 13501-6)	edition 2 and WT-TK-51
short term	5000 N		Cca-s1a,d0,a1

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

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^{*)} 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 – only certified cable fixing systems shall be used. Systems certified according to DIN 4102 part 12 or PN-EN 50200.

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

Product number	No of fibres	Tube diameter [mm]	Cable outer diameter, (appr.) [mm]	Cable weight, (appr.) [kg/km]
2000 001	4x50/125 OM2	2.5 ± 0.5	7.8	80

Other number of fibres counts available on request.

TECHNOKABEL S.A reserves the right to change specifications without prior notice.