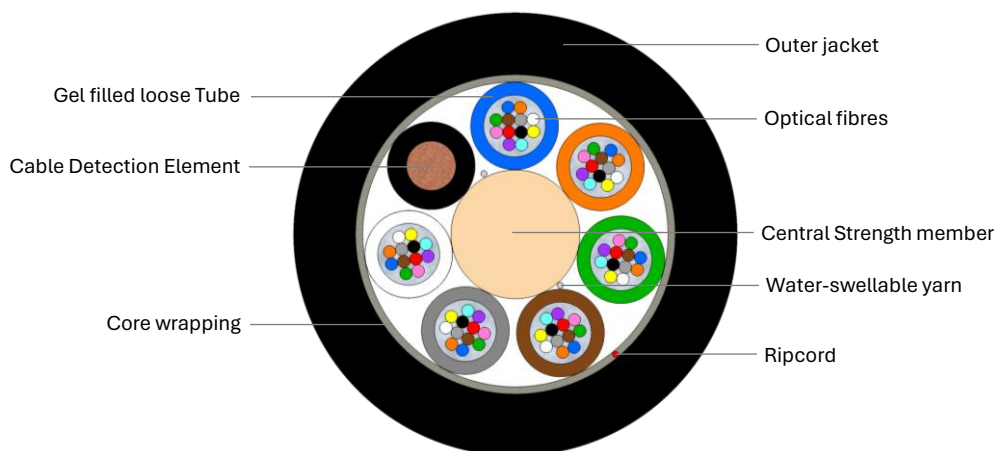


## Lightweight Outdoor Cable with the Detection Element 12-144F (NC) MEMBER OF OPTOKON GROUP

Multitube fibre optic cable for external installation with insulated copper conductor for easy detection of the cable from the surface of the ground above the cable



Picture not to scale. For illustration only.

Fibre Type	G.652.D, G.657.A1, G.657.A2, G.655, OM1, OM2, OM3, OM4
Fibre colour	EIA/TIA-598A
Tube colour	EIA/TIA-598A
Cable Detection Element	Cu 0.75 mm <sup>2</sup> / 1.7 mm PE Black
Central strength member	FRP rod (coated if necessary)
Water-swellable yarn	2x outer central strength member
Core wrapping	Water-swellable tape
Outer jacket material	UV resistant black HDPE
Ripcord	1x under outer jacket

	12	24	48	72	96	144	
Number of fibres	12	24	48	72	96	144	
Number of fibres in tube	12	12	12	12	12	12	
Tube count (layers)	1	2	4	6	8	12	
Filler count	4	3	1	0	0	0	
Cable Detection Element	1	1	1	1	1	1	
Nominal outer diameter (mm)	7.9	7.9	7.9	8.6	9.7	11.8	
Outer jacket thickness (mm)	1.2						
Calc. cable weight (kg/km)	51	52	54	66	79	116	
Short-term tensile strength (N)	950	950	950	2000	1500	3500	IEC 60794-1-101
Long-term tensile strength (N)	500	500	500	1100	1000	2700	IEC 60794-1-101
Short-term crush resistance (N/100 mm)	1500						IEC 60794-1-103
Long-term crush resistance (N/100 mm)	450						IEC 60794-1-103
Max. impact loading (Nm)	10						IEC 60794-1-104
Min. bend radius not load (OD)	15						IEC 60794-1-111
Min. bend radius load (OD)	20						IEC 60794-1-111
Operating temperature range (°C)	-40 to +70						IEC 60794-1-201
Storage temperature range (°C)	-40 to +70						IEC 60794-1-201
Installation temperature range (°C)	-15 to +50						IEC 60794-1-201
Water tightness (1 m / 24 hrs.)	No leakage						IEC 60794-1-205
Class of fire reaction	Fca						EN 50575, EN 13501-6

Number of Fibers	Cable Code (Ordering Code)	Delivery length	Packing
12	OPK-O-MTFDS-12(6x1.7)LTEP-xx-BK	2100 m ± 5%	Solid wooden non-returnable drum
24	OPK-O-MTFDS-24(6x1.7)LTEP-xx-BK	2100 m ± 5%	Solid wooden non-returnable drum
48	OPK-O-MTFDS-48(6x1.7)LTEP-xx-BK	2100 m ± 5%	Solid wooden non-returnable drum
72	OPK-O-MTFDS-72(7x1.7)LTEP-xx-BK	2100 m ± 5%	Solid wooden non-returnable drum
96	OPK-O-MTFDS-96(9x1.7)LTEP-xx-BK	2100 m ± 5%	Solid wooden non-returnable drum
144	OPK-O-MTFDS-144(13x1.7)LTEP-xx-BK	2100 m ± 5%	Solid wooden non-returnable drum

xx – fibre type (see Cable code datasheet)

**Print legend:** Manufacturer - Cable type – lot number - length marking per 1 m (customer print legend available on request)

*Note: Cable marking using the Hot-foil method is done in white. If overprinting is necessary, the color of the text is yellow.*

OPTOKON Kable Co., Ltd., s.r.o. reserves the right to make changes in this specification without prior notice.