

# LF100

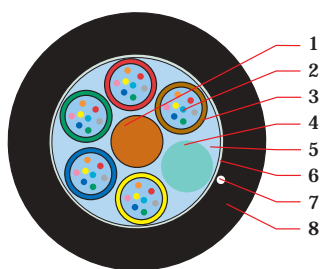
VDE Code: A-DF2Y



## Non-metallic outdoor fibre optic cable

### Applications and features

- Outdoor, non-metallic structure
- Suitable for duct installation by pulling or blowing
- Longitudinally water blocked with gel
- Loose tube, fully filled with thixotropic water-blocking gel



### Design

1. FRP central strength element
2. Optical fibres
3. Gel-filled tube
4. Filler
5. Interstices filled with gel
6. Wrapping tape
7. Rip cord
8. PE outer sheath

### Product description

This compact multitube cable contains from 5 to 12 loose tubes, stranded around a fibre-reinforced plastic (FRP) central element. If the fibres occupy fewer than 5 tubes the remaining tube positions are taken by fillers. Each tube contains up to 12 fibres in a thixotropic water-blocking gel.

Tubes and fibres are identified by a colour code.

A wrapping tape around the tubes separates the interstitial gel from the low-friction PE sheath and helps to maintain the circular form of the cable. If required the PE outer sheath can be replaced by an HLF (halogen-free, flame-retardant) sheath.



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## Mechanical Specifications

LF100							
Number of fibres (*)	up to 36	up to 60	72	84	96	120	144
Number of tubes	6	5	6	7	8	10	12
Fibre per tube (max.)	6	12	12	12	12	12	12
Tube diameter (mm)	2.1	2.8	2.8	2.8	2.8	2.8	2.8
Cable diameter, approx. (mm)	10	11	12	13	14	16	18
Outer sheath thickness (mm)	1.5						
Weight, approx. (kg per km)	80	110	125	145	160	210	260
Max. pulling force during							
- installation (N)	2.000	2.000	3.000	3.500	3.500	3.500	3.500
- operation (N)	1.000	1.200	2.000	2.500	2.500	2.500	2.500
Crush resistance (N/10cm)	4.000						
Min. bending radius							
- with tensile load	20 x cable diameter						
- without tensile load	15 x cable diameter						
Temperature range							
- operation	- 30°C to + 60°C						
- storage	- 40°C to + 70°C						
Tested according to	IEC 60794-1						

(\*) other fibre numbers by request

### Marking

"EUPEN + Product code + Fibre number/type + metric marking"

### Lengths

**Standard lengths:** 1.000 m, 2.000 m or 4.000 m, +/- 2%  
**Engineered lengths:** by request

