

# XF100

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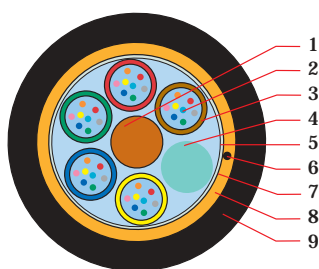
VDE Code: A-DF(ZN)2Y



## 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. Rip cord
7. Wrapping tape
8. Tensile elements
9. PE outer sheath

### Product description

This fibre optic 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.

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. A layer of tensile elements placed around the tubes increases tensile strength.

If required the PE outer sheath can be replaced by an HLF (halogen-free, flame-retardant) sheath.



# XF100

## Mechanical Specifications

XF100						
Number of fibres (*)	up to 36	up to 60	72	96	120	144
Number of tubes	6	5	6	8	10	12
Fibre per tube (max.)	6	12	12	12	12	12
Tube diameter (mm)	2.1	2.8	2.8	2.8	2.8	2.8
Cable diameter, approx. (mm)	11	12	13	14.5	17	18
Outer sheath thickness (mm)	1.5					
Weight, approx. (kg per km)	95	115	135	175	225	270
Max. pulling force during (**)						
- installation (N)	3.000	3.000	4.000	4.000	6.000	6.000
- operation (N)	2.000	2.000	2.500	2.500	4.000	4.000
Crush resistance (N/10cm)	3.000					
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  
 (\*\*) higher pulling force 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

