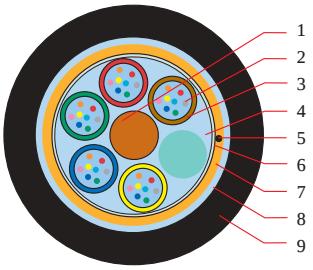
XFC10

VDE Code: A-DF(ZN)(SR)2Y

Non-metallic outdoor fibre optic cable, rodent resistant

Applications and features

Outdoor cable with corrugated steel tape armour for direct burial and rodent protection
- 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. Rip cords
6. Wrapping tape
7. Tensile elements
8. Corrugated steel tape
9. PE outer sheath

Product description

This armoured outdoor 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 positions are taken by fillers. Each tube contains up to 12 fibres in a special thixotropic water-blocking gel. Tubes and fibres are indentified by a colour code.
A wrapping tape around the tubes separates the interstitial gel from the armour and helps to maintain the circular form of the cable. The corrugated steel tape armour protects the fibres from rodent attack and high compression forces.

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Mechanical Specifications

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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)	12.5	14	14.5	16.5	18	20
Inner sheath thickness (mm)	1.0					
Outer sheath thickness (mm)	1.5					
Weight, approx. (kg per km)	130	150	175	220	270	330
Max. pulling force during (**)						
- installation (N)	3.000	3.000	4.000	5.000	6.000	6.000
- operation (N)	2.000	2.000	2.500	3.000	4.000	4.000
Crush resistance (N/10cm)	4.000					
Min. bending radius						
- with tensile load	25 x cable diameter					
- without tensile load	20 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: 2.000 m or 4.000 m, +/- 2%
Engineered lengths: by request