

XD100

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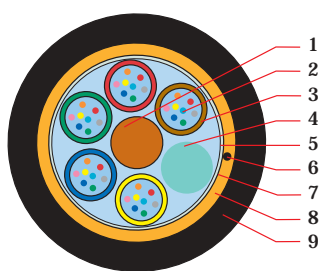
VDE Code: A-DQ(ZN)2Y



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 swelling elements
- 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. Swelling elements
6. Rip cord
7. Swelling 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.

The swelling elements ensure the longitudinal water blocking.

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.



XD100

Mechanical Specifications

XD100						
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	16	18
Outer sheath thickness (mm)	1.5					
Weight, approx. (kg per km)	90	105	120	150	195	240
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

