

XD500

VDE Code: A/I-DQ(ZN)H

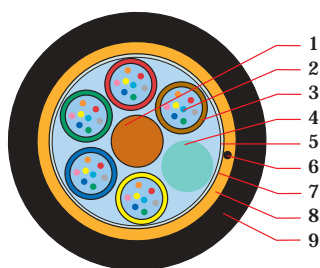


Non-metallic indoor/outdoor fibre optic cable

Applications and features

Universal cable for indoor and outdoor use in ducts or on cable trays.

- Halogen-free, flame-retardant sheath
- 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. Black HLFER 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 layer of tensile elements placed around the tubes increases tensile strength.

We use our own proprietary low water-absorption HLFER (halogen-free, flame-retardant) sheath compound and this, plus the water-swelling elements, ensures that this cable can be used in external environments, including flooded ducts, as well as meeting the indoor fire-safety standards.



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Mechanical Specifications

XD500						
Number of fibres (*)	up to 36	up to 60	72	96	120	144
Number of tubes	6	5	6	10	12	16
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)	10.5	12	13	16	18	20
Outer sheath thickness (mm)	1.5					
Weight, approx. (kg per km)	110	130	150	190	235	285
Max. pulling force during (**)						
- installation (N)	3.000	3.000	3.500	4.500	5.500	5.500
- operation (N)	1.500	2.000	2.500	3.000	3.500	3.500
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					
Flame-retardant according to	IEC 60332-1 & 60332-3-24					
Halogen-free according to	IEC 60754-2					
Low-smoke according to	IEC 61034-1/2					

(*) 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

