

LD100

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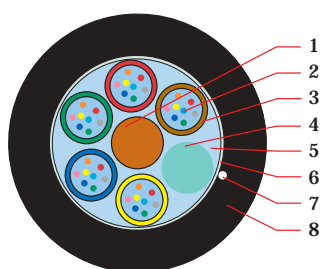
VDE Code: A-DQ2Y



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. Swelling elements
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.

The swelling elements ensure the longitudinal water blocking.

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



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Mechanical Specifications

LD100							
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	90	110	120	140	180	220
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)	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

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

