

# AD100

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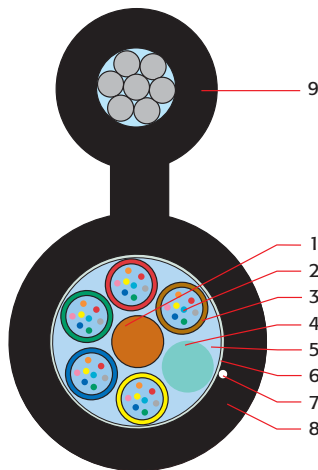
VDE Code: A-DQ2Y2Y(T)



## Aerial outdoor fibre optic cable

### Applications and features

- Aerial cable with integrated messenger
- Suitable for span lengths up to 100 m<sup>(\*)</sup>
- Longitudinally water blocked with swelling elements
- Loose tube, fully filled with thixotropic water-blocking gel<sup>(\*)</sup> under NESC medium conditions and with a cable sag of 1 m.



### 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. Black PE outer sheath (option: red)
9. Messenger

### Product description

This multitube aerial cable contains from 5 to 8 loose tubes, stranded around a fibre-reinforced plastic (FRP) central element. Each tube contains up to 12 fibres in a special thixotropic water-blocking gel. Tubes and fibres are identified by a colour code. The swelling elements ensure the longitudinal water blocking. The integrated messenger made of stranded steel wires ensures that this aerial cable can be used for span lengths up to 100 m.



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## Mechanical Specifications

<b>AD100</b>			
Number of fibres (*)	up to 36	up to 60	72 or 96
Number of tubes	6	5	8
Tube diameter (mm)	2.1	2.8	3.0
Messenger (...X mm)	7 x 1		
Outer sheath thickness (mm)	1.5		
Diameter over coated messenger (mm)	6		
Overall dimensions (mm)	10 / 18.5	11.5 / 20.0	16 / 24.5
Weight, approx. (kg per km)	145	160	220
Min. breaking strength of messenger(N)	7.160		
Crush resistance (N/10cm)	3.000		
Min. bending radius			
- with tensile load	150	175	240
- without tensile load	200	230	320
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:** 2.000 m or 4.000 m, +/- 2%  
**Engineered lengths:** by request

