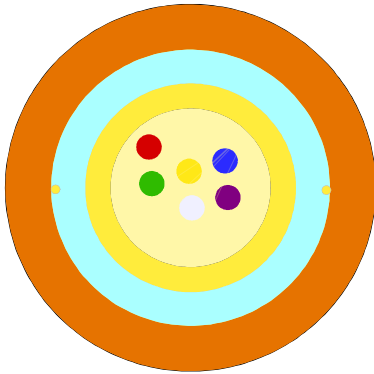


## FTTH Subscriber Drop Cable for Direct Buried Installation

### Cable Design



- not to scale -

- **Fibre:** single mode fibres acc. To ITU-T G.657.A1.
- **Loose Tube:** Thermoplastic material filled with a suitable water tightness compound. The fibres are uniquely identified by a different colour. For fibre counts above 12, the fibres are grouped in 12 fibre groups and bundled with a coloured yarn.
- **Strength members:** Water blocking glass fibre elements are applied in the cable.
- **Outer sheath:** UV resistant HDPE compound, Orange. Two ripcords are applied underneath.

This unitube dielectric optical cable is designed for direct buried installation, surrounded by sand.

### Technical data

No. of Fibres		2	4	6	8	12	24	48
Loose Tube- Ø	mm	2.3		2.8		3.3		4.5
Sheath thickness	mm			0.8				1.0
Cable Diameter (nom)	mm	5.5		5.8		6.1		7.3
Cable Weight	kg / km	27		29		35		51

### Main characteristics

Test	Standard	Specified value	Acceptance Criteria**
Tensile: during installation : permanent	IEC 60794-1-2-E1	800N. 500N.	$\Delta\alpha$ reversibel $\Delta\alpha \leq 0.05$ dB
Crush	IEC 60794-1-2-E3	2000N, 100mm plate/plate 1min.	No damage
Impact	IEC 60794-1-2-E4	15 Nm, R=200mm, 3 impacts	No damage
Cable bend	IEC 60794-1-2-E11	50mm, 5 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, No damage
Water Penetration	IEC 60794-1-2-F5B	sample=3m, water=1m	No water leakage after 24 hour

\*\* values for single-mode fibres, all optical measurements performed at 1550 nm

Min. bending radius	mm	Without Tension 15 x Cable-Ø		Under Maximum Tension 20 x Cable-Ø	
Temperature range	°C	Installation -10 to +50	Transport. & Storage -10 to +50		Operation -20 to +60

### Optical Characteristics

See the attached cabled optical fibre data sheet C17.

### Identification

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**Fibre Colours** for Design with 2 fibres

No.	1	2
Color	Blue	Green

**Fibre Colours**

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Red	White	Yellow	Blue	Green	Violet	Brown	Black	Orange	Turquoise	Pink	Grey

**Yarn Colours**

No.	1	2	3	4
Color	Red	White	Yellow	Blue

**Sheath Colour**

The colour is orange.

**Sheath Marking**

The outer sheath is marked in 1 meter intervals as follows:

**[n]v DB GVK G.657.A1 DRAKA(DL) - [Prod. Length No.] - [length]m**

Where n = fibre count

(DL) = factory code Delfzijl

### Logistic

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**Packing:**

Plastic or Plywood Drums with protection.

**Delivery Lengths:**

Standard delivery length is 4km, 6 km with a tolerance of - 1% / + 3%

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