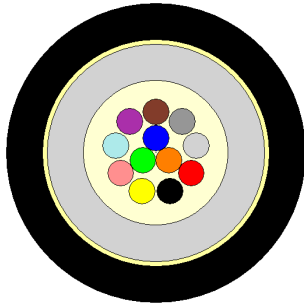


## URE microduct optical fibre cable

### TV04446



-not to scale-

#### Cable Design

According to IEC/EN 60794

- **Optical Fibres:** single mode G.657A1 or G.657A2.
- **Loose Tube:** thermoplastic material, containing optical fibres and filled with a suitable water tightness compound.
- **Longitudinal Water Tightness:** fully watertight construction.
- **Strength members:** aramid yarns.
- **Outer sheath:** high-density polyethylene, halogen free.

#### Cable Application

These outdoor Sirocco<sup>URE</sup> microduct optical fibre cables are optimized for installation by blowing into microducts and protected microducts. Please refer to our Installation Guides, please ask to our sales office.

#### Technical Data

No. of Fibres		2-12	24	48
Fibre Primary Coating Diameter	µm	250	200	250
Cable Diameter – Ø	mm	2.5	2.9	4.2
Cable Weight	kg / km	5.7	7.5	15
Max. Installation Tension	N	150	250	250
Minimum Bending Radius	mm	Under Maximum Tension: 25 x Cable Ø		Without Tension: 15 x Cable Ø
Temperature Range	°C	Transport & Storage: -30 → +70	Installation: -10 → +50	Operation: -20 → +60

#### Main Characteristics

Test	Standard	Specified Value	Acceptance Criteria
Tensile Performance	IEC 60794-1-21-E1	See table above	$\Delta\alpha$ reversible
Crush	IEC 60794-1-21-E3	1000 N / 100 mm, 1 min	$\Delta\alpha \leq 0.05$ dB after test
Impact	IEC 60794-1-21-E4	3 J, 1 impact, R = 300 mm	$\Delta\alpha \leq 0.05$ dB after test
Repeated Bending	IEC 60794-1-21-E6	R = 15 x OD, 100 cycles, 20 N	no damage
Cable Bend	IEC 60794-1-21-E11	R = 10 x OD, 5 turns, 3 cycles	$\Delta\alpha \leq 0.05$ dB, no damage
Temperature Cycling	IEC 60794-1-22-F1	-20 °C to +60 °C	$\Delta\alpha \leq 0.1$ dB/km
Water Penetration	IEC 60794-1-22-F5B	3 m sample, 1 m water, 24 h	no water leakage

#### Optical Characteristics

See the attached cabled optical fibre data sheet.

## Identification

### Fibre Colours <sup>(1)</sup>:

No.	1	2	3	4	5	6	7	8	9	10	11	12
Colour	red	green	blue	yellow	white	grey	brown	violet	turquoise	black	orange	pink

### Bundle Yarn Colours <sup>(1)</sup>:

No.	1	2	3	4
Colour	red	green	blue	yellow

(1) Other colour set available upon agreement.

### Sheath Colour:

The outer sheath colour is black.

### Sheath Marking <sup>(2)</sup>:

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

**<Optional: Customer name> <Manufacturer> <year of manufacture> <no. and type of fibres>  
<length marking in meters>**

(2) Customized marking available upon agreement.

## Logistic

**Packing:** Plastic or plywood drums with protection.

**Delivery Lengths <sup>(3)</sup>:** Standard delivery lengths are 4km and 6 km with a tolerance of -1% / +3%.

(3) Other delivery lengths available upon agreement.

All optical measurements in accordance with ITU-T G650 recommendations

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