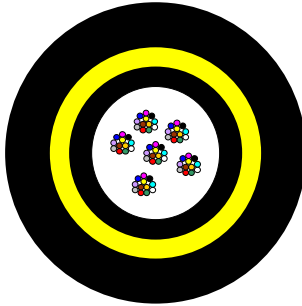


Micro Duct Cable – Uni Tube

Cable Design

Acc. to IEC 60794-5

Micro Duct Uni Tube Fiber Optic Cable - Single Sheath



- **Loose Tube:** thermoplastic material, containing all fibres and filled with a suitable water tightness compound.
- **Strength members:** non metallic yarns around the central tube.
- **Outer Sheath:** HDPE

- not to scale -

Configuration

No. of Fibres		12	24	72	96
Design (fibre bundle)		1x12	2x12	6x12	8x12
Loose Tube - Ø	mm	3.1	3.1	4.9	5.4
Outer Sheath Thickness	mm	0.4	0.4	0.4	0.4
Cable Diameter	mm	3.9	3.9	5.9	6.4
Cable Weight	kg / km	12.4	12.8	30.2	38.0

Application

Temperature Range	Transportation & Storage: - 40 to + 70 °C	Minimum Bending Radius	
	Installation: - 10 to + 50 °C		Under Maximum Tension: 20 x Cable-Ø
	Operation: - 40 to + 70 °C		Without Tension: 10 x Cable-Ø

Main Mechanical and Environmental Characteristics

Test	Test Standard	Specified Value	Acceptance Criteria
Max. Installation Tension	IEC 60794-1-2-E1	1.5 * W [N], min. 250 N (12/24 fibres) 1.5 * W [N], min. 500 N (72/96 fibres)	$\Delta\alpha$ reversible, fibre strain $\leq 0.33\%$
Crush	IEC 60794-1-2-E3	1500 N / 100 mm, short term	$\Delta\alpha \leq 0.05$ dB
Impact	IEC 60794-1-2-E4	5N m, R=200 mm, 3 spots	$\Delta\alpha \leq 0.05$ dB
Repeated Bending	IEC 60794-1-2-E6	R=15x D, 100 cycles	$\Delta\alpha \leq 0.05$ dB
Cable Bend	IEC 60794-1-2-E11	R=10x D	$\Delta\alpha \leq 0.05$ dB

All optical measurements at 1550 nm.












Specifications may be changed at any time without notice. All sizes and values without tolerances are reference values.

Specifications are for product as supplied by Draka: any modification or alteration afterwards of product may give different result









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Identification and Packing

Fibre Colours (acc. to EN187105)

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

Yarn Colours (24 fibres per tube, 2 bundles of 12 fibres)

No.	1	2	3	4	5	6	7	8
Colour	Red	White	Yellow	Blue	Green	Black	Brown	Grey
								

Filler Elements Colours

All filler elements are uncoloured (natural).

Sheath Colour

The outer sheath colour is black.

Sheath Marking

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

DRAKA <year of manufacture> <number x SMF> <length marking in meter>

Packing

Wooden drums with protection.

Delivery Lengths

Standard delivery lengths are 2 km, 4 km, 6 km with a tolerance of - 1% / + 3%