

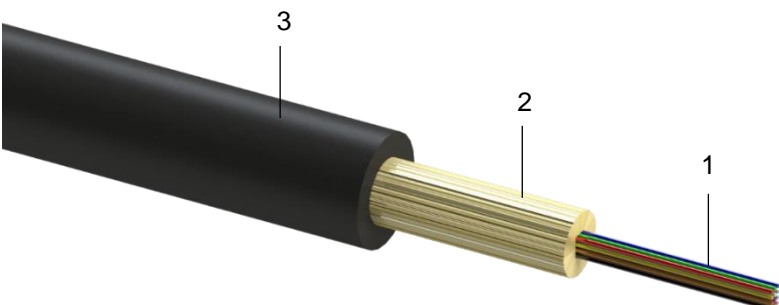
Non-metallic drop cables

Cable construction code

UAF250 FiRis 00.yy.zz.c

DIN code

J/A-(ZN)H



- 1. Optical fibres
- 2. Aramid strength members
- 3. FRLSZH UV stable outer jacket

Cable general description

Max. 12 fibre non-metallic drop cable for indoor or outdoor aerial installation.

Construction and dimensions

Fibre count	1-6	8-12
Outer jacket nominal thickness (mm)	0,8	0,8
Cable nominal outer diameter (mm)	2,8	3,2
Cable informative weight (kg/km)	9	11
Standard put-up length (m)	2100/4100 ± 5%	2100/4100 ± 5%

Outer jacket

Material	UV stable FRLSZH
Jacket colour	Black. Other colours available on request
Sheath marking	Ink-Jet, white or black depending on the jacket colour
Print legend	Trademark, construction name, cable type, batch-number, meter-marking, CE marking Customer print legend available on request

Optical fibers

Colour coding (IEC 60304)	1.-12.: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink
Fiber type	Bending optimized single- and multi-mode fibers (OS2, OM1, OM2, OM3, OM4, OM5)

Geometrical and transmission parameters are available at separate generic datasheet

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Mechanical characteristics

Test	Test method	Value	Acceptance criteria*
Tensile performance	IEC 60794-1-21:E1	250 N (max. allow-able tension)	$\Delta\alpha \leq 0,15$ dB $\Delta\alpha \leq 0,05$ dB after test
Crush	IEC 60794-1-21:E3A	500 N/100mm (long term) 1000 N/100mm (short term)	$\Delta\alpha \leq 0,05$ dB prior release, no damage $\Delta\alpha \leq 0,05$ dB after release, no damage
Impact	IEC 60794-1-21:E4	3 Nm, 3 impacts, d=20 mm, R=300 mm	$\Delta\alpha \leq 0,05$ dB after test, no damage
Repeated bending	IEC 60794-1-21:E6	R=15 x cable diameter, 25 cycles	no damage
Torsion	IEC 60794-1-21:E7	L=2 m, rotation angle $\pm 180^\circ$ 5 cycles	no damage
Bend no tension	IEC 60794-1-21:E11A	R=40 x cable diameter, 4 turns, 3 cycles	$\Delta\alpha \leq 0,05$ dB after test, no damage
Bend under tension	IEC 60794-1-21:E18A	L=2 m, R=150 mm, bend angle 45° , maximum allow-able tension, 20 cycles	$\Delta\alpha \leq 0,05$ dB after test, no damage
Maximal recommended span	TELENCO clamp 7593	40 m (minimal sag 60 cm), maximum allow-able tension	$\Delta\alpha \leq 0,05$ dB, no damage

Environmental characteristics

Test	Test method	Value	Acceptance criteria*
Temperature cycling	IEC 60794-1-22:F1	$-20^\circ\text{C} \div 60^\circ\text{C}$ $-25^\circ\text{C} \div 60^\circ\text{C}$	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,15$ dB, reversible
Temperature range of use		$-5^\circ\text{C} \div 50^\circ\text{C}$ $-20^\circ\text{C} \div 60^\circ\text{C}$ $-25^\circ\text{C} \div 60^\circ\text{C}$	installation operation storage, transport
Moisture resistance	IEC 60794-1-22:F5B	L = 3 m, 1 m water height, 24 h	no water leakage

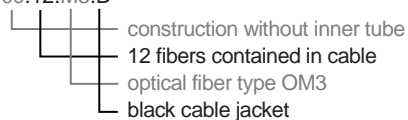
* IEC 60794-3-20

Fire performance		
Euro classification to CPR	EN 50575, EN 13501-6	Cca-s2,d0,a1

Cable expected lifetime / min. 30 years

Order information

Order code e.g.: UAF250 FiRis 00.12.M3.B



Detailed explanation of the FOC constructions coding found in the file *FOC coding*.