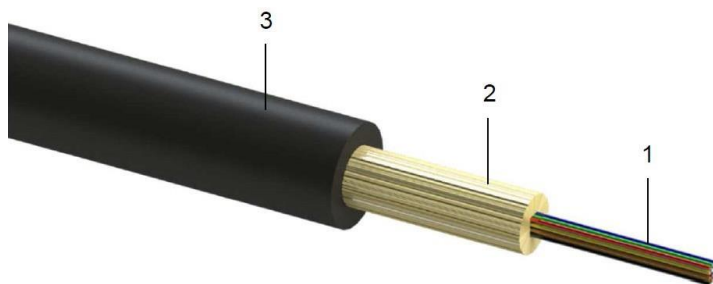


SPECIFICATIONS

Cable construction code

IAF250/400 FiRis xx.yy.zz.c



1. Optical fibers
2. Aramid yarn
3. FRLSZH outer jacket

Cable general description

Max. 12 (IAF250 FiRis) and 24 (IAF400 FiRis) fiber non-metallic drop cable for indoor installation used for Netscale pre-term solutions.

Construction and dimensions	IAF250 FiRis	IAF400 FiRis
Fiber count	8 / 12	16 / 24
Outer jacket nominal thickness	0,55 mm ± 0,1 mm	0,55 mm ± 0,1 mm
Cable nominal outer diameter	3,0 mm ± 0,2 mm	3,6 mm ± 0,2 mm
Strength Member	Aramid yarn	Aramid yarn
Cable informative weight	8 kg / km	10 kg / km
DIN / VDE code	J-(ZN)H	

Outer jacket

Material	FRLSZH without UV stabilization
Jacket color	Depending on fiber type. Singlemode yellow RAL1021, OM3 turquoise RAL6027, OM4 violet RAL4003 (optionally turquoise RAL6027), OM5 lime green Munsell 5GY 8/10
Sheath marking	Ink-Jet, black

Optical fibers

Color coding (IEC 60304)	1.-12.: red, green, blue, yellow, white, grey, brown, violet, turquoise, black, orange, pink 13.-24.: red, green, blue, yellow, white, grey, brown, violet, turquoise, natural, orange, pink ring-marked with a max. distance of 50mm.
Fiber types	Bend-optimized single- and multimode fibers (G657.A1, G657.A2 OM3, OM4, OM5)

SPECIFICATIONS

Mechanical characteristics

Test	Test method	Value	Acceptance criteria*
Tensile performance	IEC 60794-1-21:E1	250 / 400 N (5 min)	$\Delta\alpha \leq 0,05$ dB after test (IEC 60794-2-20)
Crush	IEC 60794-1-21:E3A	300 N/100mm (long term - 15 min) 500 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	1 Nm, 3 impacts, d=20 mm, R=12,5 mm	no fiber breakage
Repeated bending	IEC 60794-1-21:E6	R=20 x cable diameter, 25 cycles, m = 4 kg	no damage
Torsion	IEC 60794-1-21:E7	L=1 m, rotation angle $\pm 180^\circ$ 10 cycles, F = 20 N	no fiber breakage
Kink	IEC 60794-1-21:E10	d=20 x cable diameter	no kink
Bend no tension	IEC 60794-1-21:E11A	R=15 x cable diameter, 4 turns, 3 cycles	no fiber breakage

Environmental characteristics

Test	Test method	Value	Acceptance criteria*
Temperature cycling	IEC 60794-1-22:F1	-20°C ÷ 60°C -25°C ÷ 70°C	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,15$ dB, reversible
Temperature range of use		-5°C ÷ 50°C -20°C ÷ 60°C -25°C ÷ 70°C	installation operation storage, transport

*IEC 60794-2-20

CPR

Classification to CPR	EN 50575, EN 13501-6	Cca-s2,d0,a1
Declaration of Performance number	D9075	IAF250 FiRis
	D9076	IAF400 FiRis