

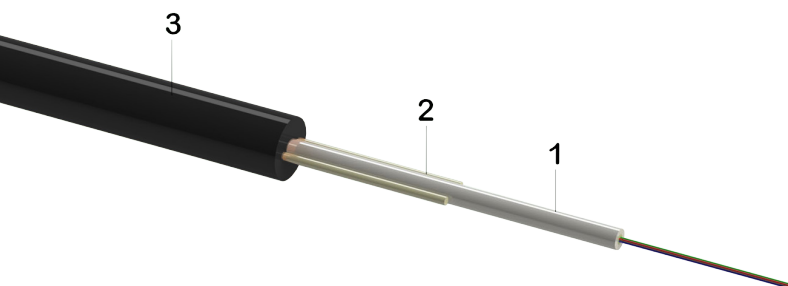
Microcables

Cable construction code

MT1RF xx.yy.zz.c

DIN code

J/A-DQ(ZN)H (2FRP 0,5)



- 1. Gel filled PBT loose tube with optical fibers
- 2. FRP strength members
- 3. FRLSZH UV stable outer jacket

Cable general description

Max. 4 fiber uni-tube non-metallic micro-cable for indoor or outdoor installation to micro-tubes.

Construction and dimensions

Loose tube nominal diameter	1,2 mm
Outer jacket nominal thickness	0,9 mm
Cable nominal outer diameter	3,0 mm
Cable informative weight	11 kg/km
Standard put-up length	2100/4100 m ± 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	Construction name, cable type, batch-number, meter-marking, CE marking, Customer print legend available on request

Optical fibers

Colour coding (IEC 60304)	1.-4.: red, green, blue, yellow
Fiber type	Single- and multi-mode fibers (OS2)

Geometrical and transmission parameters are available at separate generic datasheet

Microcables

Mechanical characteristics

Test	Test method	Value	Acceptance criteria*
Tensile performance	EN 60794-1-21:E1	150 N (short term)	$\Delta\alpha \leq 0,05$ dB after test
Crush	EN 60794-1-21:E3A	500 N/100mm (short term)	$\Delta\alpha \leq 0,05$ dB after release, no damage
Impact	EN 60794-1-21:E4	1 Nm, 3 impacts, d=20 mm, R=300 mm	$\Delta\alpha \leq 0,1$ dB after test, no damage
Repeated bending	EN 60794-1-21:E6	R=40 x cable diameter, 25 cycles	no damage
Torsion	EN 60794-1-21:E7	L = 2 m, rotation angle $\pm 180^\circ$, 10 cycles	no damage
Kink	EN 60794-1-21:E10	d = 40 x cable diameter	no damage
Bend no tension	EN 60794-1-21:E11A	R = 40 x cable diameter, 4 turns, 3 cycles	$\Delta\alpha \leq 0,05$ dB after test, no damage

Environmental characteristics

Test	Test method	Value	Acceptance criteria*
Temperature cycling	EN 60794-1-22:F1	-20°C ÷ 70°C -30°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 ÷ 70°C -30°C ÷ 70°C	installation operation storage, transport
Moisture resistance	EN 60794-1-22:F5B	L = 3 m, 1 m water height, 24 h	no water leakage

* EN 60794-5-10

Fire performance

Flammability - cable bundle	EN 60332-3-22 (cat.A)	Pass
Smoke density	EN 61034-1, EN 61034-2	Pass
Halogen Free, Acid gases	EN 60754-2	Pass
Euro classification to CPR	EN 50575, EN 13501-6	Fca

Cable expected lifetime / min. 30 years

Order information

Construction	Diameter	CPR	Fiber count	G657.A1	G657.A2
MT1RF	Ø 3,0	Fca	2	01.02.S7.B	01.02.S8.B
			4	01.04.S7.B	R851139

Order code e.g.: MT1RF 01.02.S7.B (see page 136/137)

Other fiber counts and/or fiber types on special request