

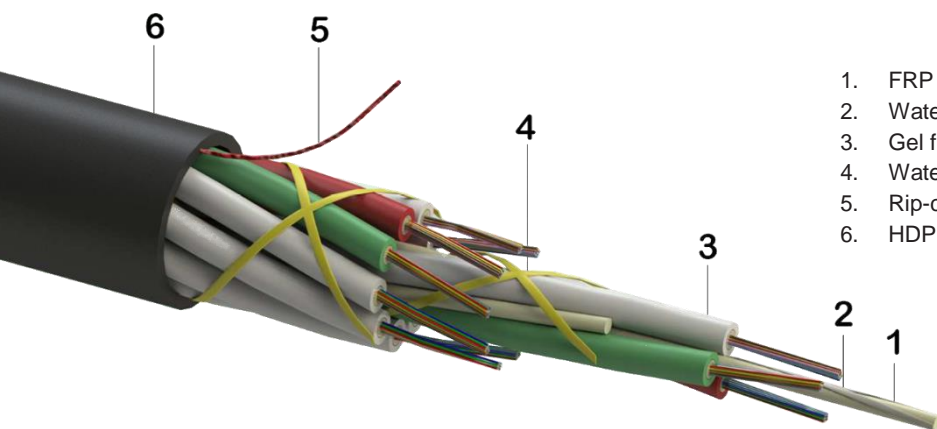
Microcables

Cable construction code

MT3x1,5AHs xx.yy.zz.c

DIN code

A-DQ(ZN)2Y 12x1,5



1. FRP central strength member
2. Water swell-able yarn
3. Gel filled PBT loose tube with optical fibers
4. Water swell-able aramid yarn
5. Rip-cord
6. HDPE UV stable outer jacket

Cable general description

Multi-loose-tube non-metallic micro-cable for outdoor installation to micro-tubes. The cable contains max. 144 fibres in 12 loose-tubes SZ stranded in two layers.

Construction and dimensions

Loose tube nominal diameter	1,55 mm
Outer jacket nominal thickness	0,5 mm
Cable nominal outer diameter	7,6 mm
Cable informative weight	44 kg/km
Standard put-up length	2100/4100 m ± 5%

Outer jacket

Material	UV stable HDPE
Jacket colour	Black
Sheath marking	Ink-Jet, white
Print legend	Trademark, construction name, cable type, batch-number, meter-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
Loose-tube colour coding	1.red, 2.green (in each layer), rest of tubes white (fillers uncoloured or black)
Fiber type	Single- and multi-mode fibers (OS2, OM1, OM2, OM3, OM4)

Geometrical and transmission parameters are available at separate generic datasheet

Microcables

Mechanical characteristics

Test	Test method	Value	Acceptance criteria*
Tensile performance	IEC 60794-1-21:E1	400 N (short term)	$\Delta\alpha \leq 0,05$ dB after test
Crush	IEC 60794-1-21:E3A	500 N/100mm (short term)	$\Delta\alpha \leq 0,05$ dB after release, no damage
Impact	IEC 60794-1-21:E4	1 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=40 x cable diameter, 25 cycles	no damage
Torsion	IEC 60794-1-21:E7	L=1 m, rotation angle $\pm 180^\circ$, 10 cycles	no damage
Kink	IEC 60794-1-21:E10	d=40 x cable diameter	no kink
Bend	IEC 60794-1-21:E11A	d=40 x cable diameter, 4 turns, 3 cycles	$\Delta\alpha \leq 0,05$ dB after test, no damage

Environmental characteristic

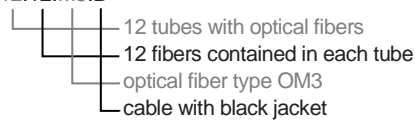
Test	Test method	Value	Acceptance criteria*
Temperature cycling	IEC 60794-1-22:F1	-40°C ÷ 70°C	$\Delta\alpha \leq 0,05$ dB
Temperature range of use		-5°C ÷ 50°C	installation
		-40°C ÷ 70°C	operation
		-40°C ÷ 70°C	storage, transport
Moisture resistance	IEC 60794-1-22:F5B	L=3 m, 1 m water height, 24 h	no water leakage

* IEC 60794-5-10

Cable expected lifetime / min. 30 years

Order information

Order code e.g.: MT3x1,5AHs 12.12.M3.B



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