

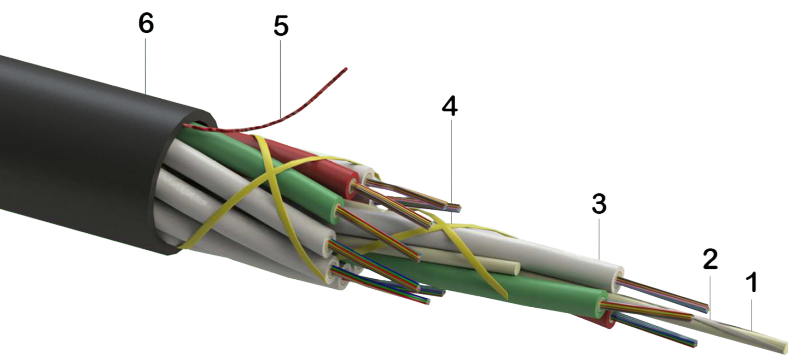
Microcables

Cable construction code

MT3x1,5AHs xx.yy.zz.c

DIN code

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



1. FRP central strength member
2. Water swellable yarn
3. Gel filled PBT loose tube with optical fibers
4. Water swellable 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 fibers 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	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, 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	EN 60794-1-21:E1	400 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	$\Delta\alpha \leq 0,05$ 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 = 1 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	-40°C ÷ 70°C	$\Delta\alpha \leq 0,05$ dB
Temperature range of use		-5°C ÷ 50°C -40°C ÷ 70°C -40°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

Cable expected lifetime / min. 30 years

Order information

Construction	Diameter	CPR	Fiber count	OM3	OM4	G652.D	G657.A1
MT3x1,5AHs	Ø 7,6		12 x 6f 72f	12.06.M3.B	12.06.M4.B	12.06.S2.B	12.06.S7.B
			12 x 8f 96f	12.08.M3.B	12.08.M4.B	12.08.S2.B	12.08.S7.B
			12 x 12f 144f	12.12.M3.B	12.12.M4.B	R851117	12.12.S7.B

Order code e.g.: MT3x1,5AHs 12.06.M3.B (see page 136/137)

Other fiber counts and/or fiber types (e.g. G657.A2) on special request