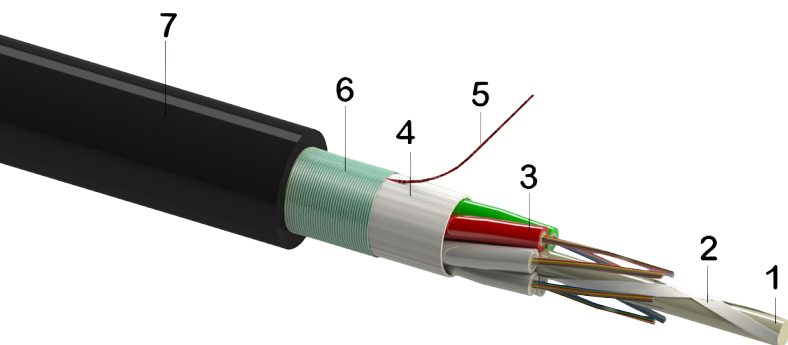


Cable construction code

UT.x1,7ECF xx.yy.zz.c

DIN code

J/A-DQ(ZN)(SR)H wbg nx1,7



1. FRP central strength member
2. Water swellable yarn
3. Gel filled PBT loose tube with optical fibers
4. Water swellable e-glass yarn
5. Rip-cord
6. Corrugated steel tape armour
7. FRLSZH UV stable outer jacket

Cable general description

Multi Loose Tube corrugated steel tape armoured cable for indoor or outdoor duct or direct buried installation. This cable construction offers full rodent protection.

Construction and dimensions	OT6x1,7ECF	OT8x1,7ECF	OT3x1,7ECF	OT9x1,7ECF
Max. fiber count (12 fibers/tube)	72	96	144	216
Loose-tubes count	6	8	12	18(6+12)-two layers
Loose tube nominal diameter (mm)	1,7	1,7	1,7	1,7
FRP/coat. CSM nominal thickness (mm)	1,7	2,8	2,5/5,0	1,7
Outer jacket nominal thickness (mm)	1,3	1,3	1,3	1,3
Cable nominal outer diameter (mm)	11,0	12,0	14,0	14,0
Cable informative weight (kg/km)	135	165	210	210
Standard put-up length (m)	2100 / 4100±5%	2100 / 4100±5%	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	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
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

Mechanical characteristics

Test	Test method	Value					Acceptance criteria*
			UT6x..	UT8x..	UT3x..	UT9x..	
Tensile performance	EN 60794-1-21:E1	long term	800 N	1200 N	1200 N	1100 N	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,05$ dB after test
		short term	2500 N	4000 N	4000 N	3500 N	
Crush	EN 60794-1-21:E3A	2500 N/100mm (long term) 5000 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	EN 60794-1-21:E4	20 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=20 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
Bend no tension	EN 60794-1-21:E11A	R=15 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	installation operation storage, transport
		-40°C ÷ 70°C	
		-40°C ÷ 70°C	
Moisture resistance	EN 60794-1-22:F5B	L = 3 m, 1 m water height, 24 h	no water leakage

* EN 60794-3-10, EN 60794-3-11

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	OM3	OM4	G652.D	G657.A1
UT6x1,7ECF	Ø 11,0	Fca	4 x 8f 32f	04.08.M3.B	04.08.M4.B	04.08.S2.B	04.08.S7.B
			4 x 12f 48f	04.12.M3.B	04.12.M4.B	04.12.S2.B	04.12.S7.B
			6 x 6f 36f	06.06.M3.B	06.06.M4.B	06.06.S2.B	06.06.S7.B
			6 x 8f 48f	06.08.M3.B	06.08.M4.B	06.08.S2.B	06.08.S7.B
			6 x 12f 72f	06.12.M3.B	06.12.M4.B	06.12.S2.B	06.12.S7.B
UT8x1,7ECF	Ø 12,0	Fca	8 x 8f 64f	08.08.M3.B	08.08.M4.B	08.08.S2.B	08.08.S7.B
			8 x 12f 96f	08.12.M3.B	08.12.M4.B	08.12.S2.B	08.12.S7.B
UT3x1,7ECF	Ø 14,0	Fca	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	R851129	12.12.S7.B
UT9x1,7ECF	Ø 14,0	Fca	18 x 6f 108f	18.06.M3.B	18.06.M4.B	18.06.S2.B	18.06.S7.B
			18 x 8f 144f	18.08.M3.B	18.08.M4.B	18.08.S2.B	18.08.S7.B
			18 x 12f 216f	18.12.M3.B	18.12.M4.B	R851133	18.12.S7.B

Order code e.g.: UT6x1,7ECF 06.06.M3.B (see page 136/137)

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