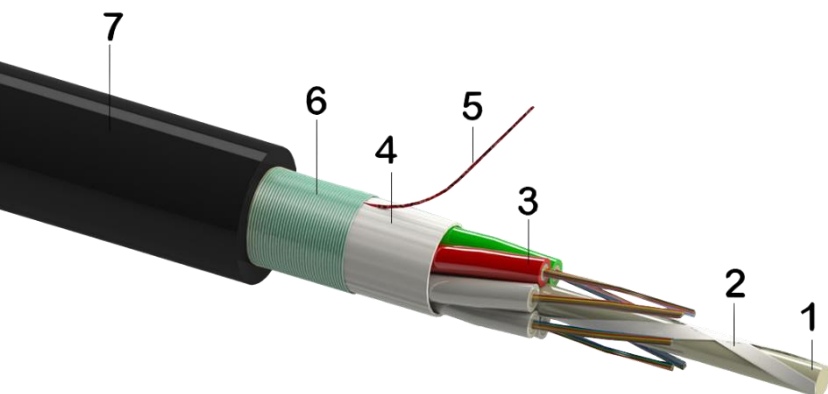


Cable construction code

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 swell-able yarn
3. Gel filled PBT loose tube with optical fibers
4. Water-blocking tape and water swell-able 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 excellent mechanical and full rodent protection.

Construction and dimensions	UT6x1,7ECF	UT8x1,7ECF	UT3x1,7ECF	UT9x1,7ECF
Max. fibre count (12 fibres/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	Trademark, 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, OM1, OM2, OM3, OM4)

Geometrical and transmission parameters are available at separate generic datasheet

**Mechanical characteristics**

Test	Test method	Value				Acceptance criteria*	
			UT6x	UT8x	UT3x		UT9x
Tensile performance	IEC 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	IEC 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	IEC 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	IEC 60794-1-21:E6	R=20 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	
Bend	IEC 60794-1-21:E11A	d=20 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 60794-3-10, IEC 60794-3-11

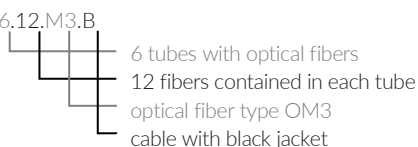
Cable expected lifetime / min. 30 years

**Fire performance**

Test	Test method	Result
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	Eca

**Order information**

Order code e.g.: UT6x1,7ECF 06.12.M3.B



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