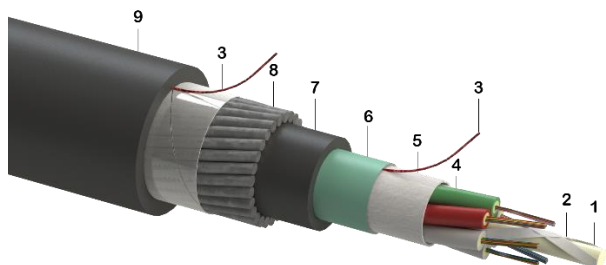


Cable construction code

OT.x2,3ZLWH xx.yy.zz.c

DIN code

A-DQ(L)2YB2Y (R...vzk) nx2,3



1. FRP central strength member
2. Water swell-able yarn
3. Rip-cords
4. Gel filled PBT loose tube with optical fibers
5. Water swell-able tape
6. Aluminium tape
7. LDPE UV stable inner jacket
8. Zn galvanized steel wire armour fixed by PET tape
9. HDPE UV stable outer jacket

Cable general description

Multi-loose-tube steel wire armoured cable with two jackets for outdoor duct or direct buried installation. Aluminium tape combined with water swellable tape under inner jacket provide this construction excellent transverse and longitudinal moisture protection of the cable core. This cable construction offers excellent mechanical and full rodent protection.

Construction and dimensions	OT6x2,3ZLWH	OT8x2,3ZLWH	OT3x2,3ZLWH
Max. fibre count (12 fibres/tube)	72	96	144
Loose-tubes count	6	8	12
Loose tube nominal diameter (mm)	2,3	2,3	2,3
FRP/coat. CSM nominal thickness (mm)	2,5	2,5/3,8	2,5/6,7
Inner jacket nominal thickness (mm)	1,0	1,0	1,0
Steel wire nominal diameter (mm)	1,0	1,0	1,3
Outer jacket nominal thickness (mm)	1,3	1,3	1,3
Cable nominal outer diameter (mm)	15,0	16,2	20,0
Cable informative weight (kg/km)	360	400	640
Standard put-up length (m)	2100 ± 5%	2100 ± 5%	2100 ± 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

Mechanical characteristics

Test	Test method	Value			Acceptance criteria*
		OT6x	OT8x	OT3x	
Tensile performance	IEC 60794-1-21:E1	long term	N/A	N/A	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,05$ dB after test
		short term	5000 N	6000 N	
Crush	IEC 60794-1-21:E3A	2000 N/100mm (long term) 4000 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	25 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

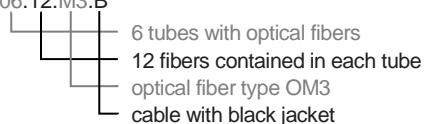
Test	Test method	Value	Acceptance criteria*
Temperature cycling	IEC 60794-1-22:F1	-40°C ÷ 70°C	$\Delta\alpha \leq 0,05$ dB
Temperature range of use		-5°C ÷ 50°C	installation
		-40°C ÷ 70°C	operation
		-40°C ÷ 70°C	storage, transport
Moisture resistance	IEC 60794-1-22:F5B	L=3 m, 1 m water height, 24 h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

* IEC 60794-3-10, IEC 60794-3-11

Cable expected lifetime / min. 30 years

Order information

Order code e.g. OT6x2,3ZLWH 06.12.M3.B



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