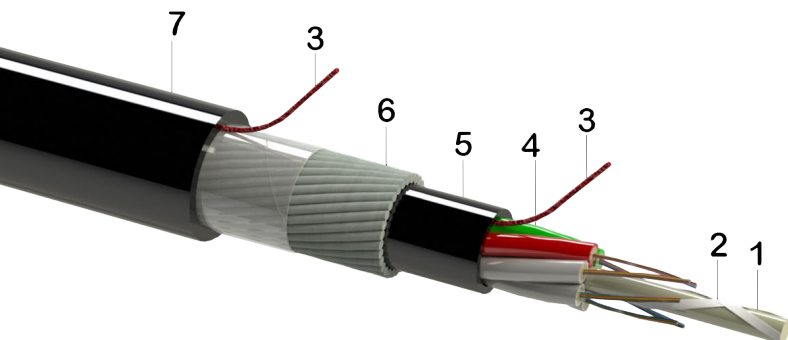


Cable construction code

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

DIN code

A-DQ2YB2Y (R...vzk) nx2,3



1. FRP central strength member
2. Water swellable yarn
3. Rip-cord
4. Gel filled PBT loose tube with optical fibers
5. LDPE UV stable inner jacket
6. Zn galvanized steel wire armour fixed by PET tape
7. 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. This cable construction offers excellent mechanical and full rodent protection.

Construction and dimensions	OT6x2,3LWH	OT8x2,3LWH	OT3x2,3LWH
Max. fiber count (12 fibers/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)	14,5	15,8	19,4
Cable informative weight (kg/km)	330	385	610
Standard put-up length (m)	2100/4100 ± 5%	2100/4100 ± 5%	2100/4100 ± 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

Mechanical characteristics

Test	Test method	Value	Acceptance criteria*			
			OT6x..	OT8x..	OT3x..	
Tensile performance	EN 60794-1-21:E1	long term	n.a.	n.a.	n.a.	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,05$ dB after test
		short term	5000 N	6000 N	8000 N	
Crush	EN 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	EN 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	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
		-40°C ÷ 70°C	operation
		-40°C ÷ 70°C	storage, transport
Moisture resistance	EN 60794-1-22:F5B	L = 3 m, 1 m water height, 24 h	no water leakage under inner sheath

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

Cable expected lifetime / min. 30 years

Order information

Construction	Diameter	CPR	Fiber count	OM3	OM4	G652.D	G657.A1
OT6x2,3LWH	Ø 14,5		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 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
OT8x2,3LWH	Ø 15,8		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
OT3x2,3LWH	Ø 19,4		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	R851130	12.08.S7.B

Order code e.g.: OT6x2,3LWH 06.08.M3.B (see page 136/137)

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