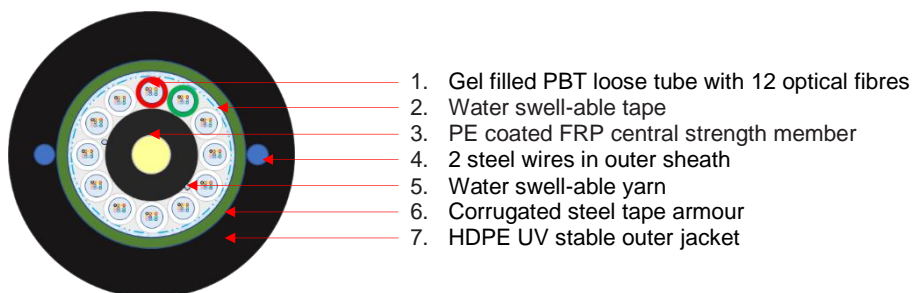


Cable construction code	DIN code
OT3x2,3CDH 12.12.S2.B	A-DQ(ZN)(SR)2Y (2TR1,4) 12x2,3 144f



1. Gel filled PBT loose tube with 12 optical fibres
2. Water swell-able tape
3. PE coated FRP central strength member
4. 2 steel wires in outer sheath
5. Water swell-able yarn
6. Corrugated steel tape armour
7. HDPE UV stable outer jacket

Cable general description

This corrugated steel tape armoured multi-loose-tube cable with two opposite steel wires incorporated in black HDPE outer sheath is designed for outdoor duct or direct buried installation. Steel tape armour combined with steel wires provide this construction high mechanical resistance and full rodent protection. Water swellable tape protects the cable core against longitudinal moisture protection.

Construction and dimensions	OT3x2,3CDH	
Max. fibre count (12 fibres/tube)	144	
Loose-tubes count	12	
Loose tube nominal diameter (mm)	2,3	
FRP/coat. CSM nominal thickness (mm)	2,8/6,7	
Steel tape nominal thickness (mm)	0,15	
Steel wire nominal diameter (mm)	1,4	
Outer jacket nominal thickness (mm)	2,7 (min. 2,5)	
Cable nominal outer diameter (mm)	18,9	
Cable informative weight (kg/km)	335	
Standard put-up length (m)	4000 -1/+5%	(delivered on 180cm solid wooden drums with battens)

Outer jacket

Material	UV stable HDPE
Jacket colour	Black
Sheath marking	Ink-Jet, white
Print legend	Trademark (manufacturer's name), Project name (tender number), Fibre type and number, cable type, batch-number (incl. manufacture year), meter-marking (other 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, rest of tubes white (other colours available on request)
Fiber type	Single-mode fibres G.652.D & G.657.A1 (OS2)

Geometrical and transmission parameters are available at separate generic datasheet

Mechanical characteristics

Test	Test method	Value	Acceptance criteria*
Tensile performance	IEC 60794-1-21:E1	2500 N (long term) 4000 N (short term)	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,05$ dB after test
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	10 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, 3 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

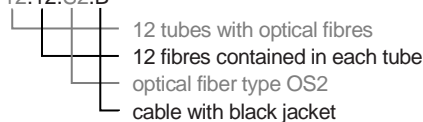
Test	Test method	Value	Acceptance criteria*
Temperature cycling	IEC 60794-1-22:F1	-30°C ÷ 70°C -40°C ÷ 70°C	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,15$ dB, reversible
Temperature range of use		-10°C ÷ 50°C -30°C ÷ 70°C -40°C ÷ 70°C	installation operation storage, transport
Moisture resistance	IEC 60794-1-22:F5B	L=3 m, 1 m water height, 24 h	no water leakage under outer sheath

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

Cable expected lifetime / min. 30 years

Order information

Order code e.g.: OT3x2,3CDH 12.12.S2.B



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