

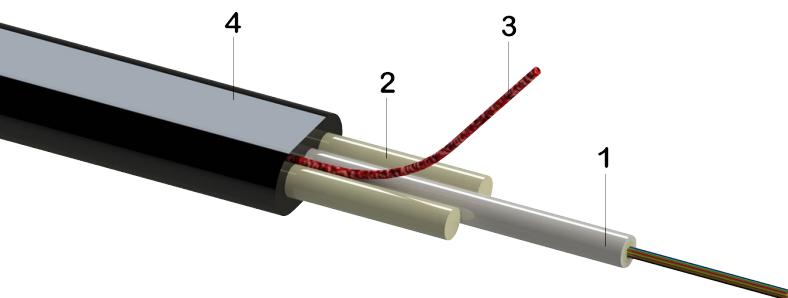
Flat self-supporting cables

Cable construction code

ST1fH xx.yy.zz.c

DIN code

A-D(ZN)2YT (2FRP 2,0)



1. Gel filled PBT loose tube with optical fibers
2. FRP strength members
3. Rip-cord
4. HDPE UV stable outer jacket

Cable general description

Max. 12 fiber uni-tube non-metallic flat self-supporting cable for outdoor aerial or direct buried installation.

Construction and dimensions

Loose tube nominal diameter	1,9 mm
Outer jacket nominal thickness	1,0 mm
Cable nominal outer diameter	8,0 x 4,0 mm
Cable informative weight	38 kg/km
Standard put-up length	2100/4100 m ± 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
Fiber type	Single- and multi-mode fibers (OS2)

Geometrical and transmission parameters are available at separate generic datasheet

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Mechanical characteristics

Test	Test method	Value	Acceptance criteria*
Tensile performance	EN 60794-1-21:E1	1600 N (max. allow-able tension)	$\Delta\alpha \leq 0,15$ dB $\Delta\alpha \leq 0,05$ dB after test
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	10 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=150 mm, 25 cycles	no damage
Torsion	EN 60794-1-21:E7	L=2 m, rotation angle $\pm 180^\circ$, 5 cycles	no damage
Bend no tension	EN 60794-1-21:E11A	R=150 mm, 4 turns, 3 cycles	$\Delta\alpha \leq 0,05$ dB after test, no damage
Bend under tension	EN 60794-1-21:E18A	L=2 m, R=150 mm, bend angle 45° , maximum allow-able tension, 20 cycles	$\Delta\alpha \leq 0,05$ dB after test, no damage
Maximal recommended span	TELENCO clamp ODWAC 5126	70 m (minimal mid-span sag 1 m)	$\Delta\alpha \leq 0,05$ dB, no damage

Environmental characteristics

Test	Test method	Value	Acceptance criteria*
Temperature cycling	EN 60794-1-22:F1	$-20^\circ\text{C} \div 70^\circ\text{C}$ $-30^\circ\text{C} \div 70^\circ\text{C}$	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,15$ dB, reversible
Temperature range of use		$-5^\circ\text{C} \div 50^\circ\text{C}$ $-20^\circ\text{C} \div 70^\circ\text{C}$ $-30^\circ\text{C} \div 70^\circ\text{C}$	installation operation storage, transport

* EN 60794-5-10, ** applied on flat side

Cable expected lifetime / min. 30 years

Order information

Construction	Diameter	CPR	Fiber count	G657.A1	G657.A2
ST1fH	Ø 8,0 x 4,0		4	01.04.S7.B	01.04.S8.B
			6	01.06.S7.B	01.06.S8.B
			8	01.08.S7.B	01.08.S8.B
			12	01.12.S7.B	R851140

Order code e.g.: ST1fH 01.04.S7.B (see page 136/137)

Other fiber counts and/or fiber types on special request