

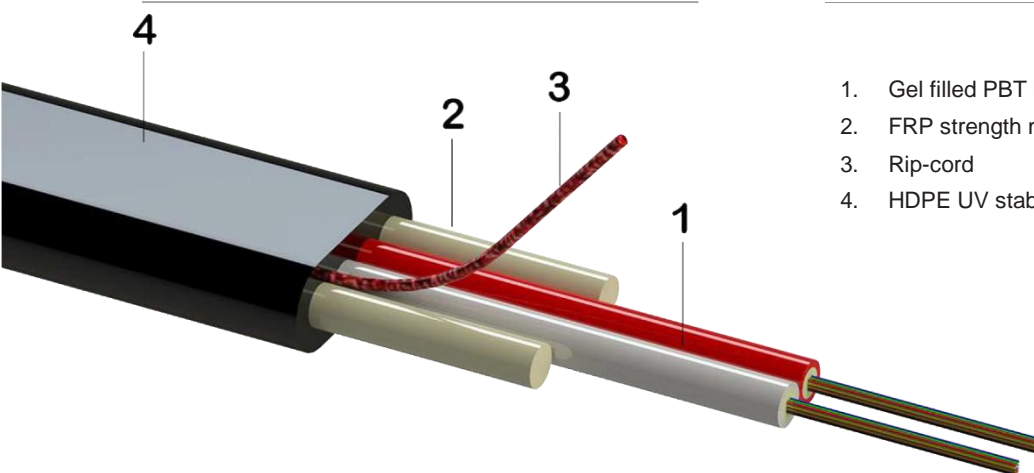
Flat self-supporting Cables

Cable construction code

ST2fH 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. 2x12 fibre 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 dimension	9,8 x 4,0 mm
Cable informative weight	59 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	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.white
Fiber type	Single- and multi-mode fibers (OS2, OM1, OM2, OM3, OM4)

Geometrical and transmission parameters are available at separate generic datasheet

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Mechanical characteristics

Test	Test method	Value	Acceptance criteria*
Tensile performance	IEC 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	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=150 mm, 25 cycles	no damage
Torsion	IEC 60794-1-21:E7	L=2 m, rotation angle $\pm 180^\circ$, 5 cycles	no damage
Bend	IEC 60794-1-21:E11A	d=300 mm, 4 turns, 3 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), maximum allow-able tension	$\Delta\alpha \leq 0,05$ dB, no damage

Environmental characteristic

Test	Test method	Value	Acceptance criteria*
Temperature cycling	IEC 60794-1-22:F1	-20°C ÷ 70°C -30°C ÷ 70°C	$\Delta\alpha \leq 0,05$ dB $\Delta\alpha \leq 0,15$ dB, reversible
Temperature range of use		-5°C ÷ 50°C -20°C ÷ 70°C -30°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

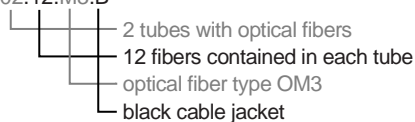
* IEC 60794-3-20

** applied on flat side

Cable expected lifetime / min. 30 years

Order information

Order code e.g.: ST2fH 02.12.M3.B



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