

HFiberCORE 657A1 FD - DIN

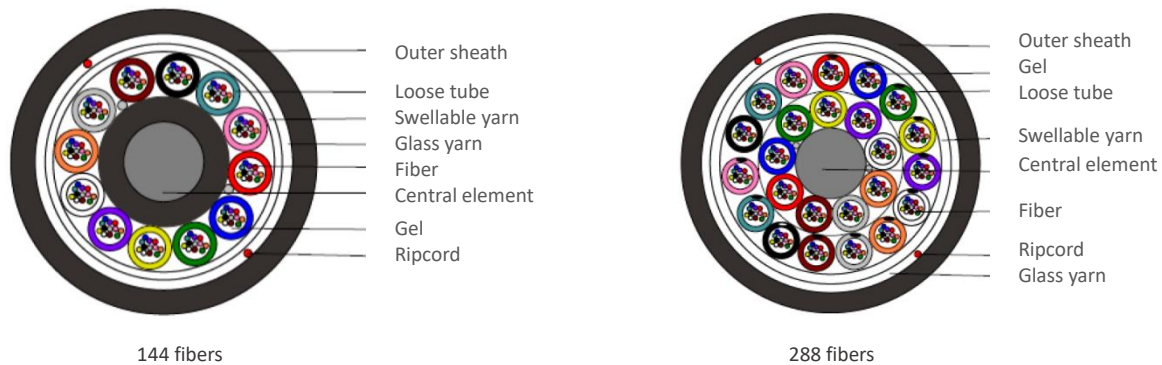
Metal-free outdoor cable with Glassyarn reinforcement

Application:

Metal-free outdoor fiber cable with non-metallic rodent protection / source fibers. The cable is designed for outdoor installation, direct buried or in conduits, troughs and channels without additional protective measures

Fiber type:	250μ ITU G657A1 and G652D
Outer sheath:	With a low-friction HDPE layer
Loose tubes:	Mechanically optimized PBT material
Dimension of loose tubes:	2,1mm.
Water proof:	Test standard according to IEC 60794-1-2-F5B

Construction



Colour code:

Fiber colour code:

Nr.	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Green	Blue	Yellow	White	Grey	Brown	Purple	Turquoise	Black	Orange	Pink

Colour code of the loose tubes:

Nr.	1	2	3	4	5	6	7	8	9	10	11	12
	Red	Green	Blue	Yellow	White	Grey	Brown	Purple	Turquoise	Black	Orange	Pink
Nr.	13	14	15	16	17	18	19	20	21	22	23	24
	Red	Green	Blue	Yellow	White	Grey	Brown	Purple	Turquoise	Neutral	Orange	Pink

Note: Loose tube Nr. 13 - Nr. 24 with black stripe.
Nr. 22 is transparent (Neutral).

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Cable specifications:

Number of fibers	Loose tubes X fibers	Nominal outer diameter (mm)	Tensile Strength (N)	Weight (KG/Km.)
12	1 x 12	9.2	1100 N	80
24	2 x 12	9.2	1100 N	80
48	4 x 12	9.2	1100 N	80
72	6 x 12	9.2	1100 N	80
96	8 x 12	10.6	1500 N	100
144	12 x 12	14.0	2000 N	150
192	12x16	14.8	2000 N	160
288	24 x 12	17.0	2500 N	210

Thickness of outer sheath	Loose tube – bending radius	Min. cable bending radius	Temperature range
12-96: 1.0 mm 144-288: 1.5 mm	50 mm	Static: 12 X OD Dynamic: 20 X OD	Storage: -40 - + 70 °C Laying: -10 - + 50 °C In operation: -20 - + 70 °C

Test procedure

Mechanical test:

Test	Norm	Parameter	Criteria
Tensile strength	IEC 60794-1-2-E1	≥ 1.5 Weight	≤0.1dB, no damages
Crush strength	IEC 60794-1-2-E3	1000N /100 mm, 1 min	≤0.1dB, no damages
Cable kink	IEC 60794-1-2-E6	150 N, 30 Cycles	≤0.1dB, no damages
Shock	IEC 60794-1-2-E4	Radius: 300mm. Energy: 2J	≤0.1dB, no damages
Torsion	IEC 60794-1-2-E7	150 N, 10 Cycles	≤0.1dB, no damages

Note: Measurement results according to IEC 60794 Version 1.0, 2008-10 The optical tests were carried out at 1550 nm

Test	Norm	Parameter	Criteria
Temperature range	IEC 60794-1-2-F1	G652 D	≤0.1 dB/ km
Water inlet	IEC 60794-1-2-F5B	Water column =1 m, Cable length = 3 m	No water leakage through the open end in 24 hours
Filling flow test for loose tubes	IEC 60794-1-2-E14	70°C	Within 24 hours, no thixotropic gel will flow out of the cable

Note: Measurement results according to IEC 60794 Version 1.0, 2008-10 The optical tests were carried out at 1550 nm

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Ordering informationen:

Standard drum size: 4km

Print on cable: "HF FiberCore" "type number" "Meter" "Production code and Date"

Type number:

Fiber count	G657A1 Fiber	G652D Fiber
	Type number	Type number
12F	450065	-
24F	451027	-
48F	450975	-
72F		-
96F	451014	-
144F	450949	-
196F		-
288F	450871	