

PRODUCT OVERVIEW



Navigator®
AntCore™ Series



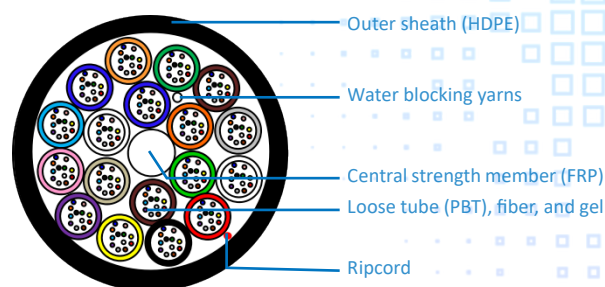


Navigator® AntCore™ Series

Navigator® introduces the AntCore™ series, a revolutionary line of micro cables designed to maximize fiber capacity within the smallest possible footprint. Leveraging advanced diameter control technology, the AntCore™ series achieves extreme fiber density, enabling efficient and cost-effective deployments in space-constrained environments. Optimized for air-blown installation in microducts, AntCore™ offers a range of fiber counts and diameters to meet diverse network needs, from standard deployments to extreme high-density applications. The series includes AntCore™ Standard (250μm fiber), AntCore™ HD (200μm fiber), and AntCore™ Extreme (180μm fiber), with the Extreme variation achieving an industry-leading 864 fibers within a remarkably small 10mm outer diameter.

KEY FEATURES & BENEFITS:

- ❶ **Ultra-Compact Design:** This reduced size maximizes duct utilization in existing infrastructure and minimizes the need for extensive excavation.
- ❷ **Extreme Fiber Density:** The AntCore™ Extreme packs 864 fibers into a 10mm diameter.
- ❸ **Optimized for Air-Blown Installation:** The lightweight yet rigid cable design enables fast, efficient, and cost-effective installation in microducts.
- ❹ **Future-Proof Networks:** High fiber density allows network operators to install the necessary capacity now and easily expand later as demand increases, deferring capital expenditures.
- ❺ **Reduced Environmental Impact:** Smaller cable diameters require less raw material, contributing to a smaller carbon footprint.



TECHNICAL SPECIFICATIONS:

AntCore™ Standard

Fiber type	250um G657A2							
Fiber count	72	96	144	192	288	432	576	864
No. of fibers per tube	12	12	24	24	24	24	24	36
Stranding no.-tube No./filler No.	6/0	8/0	6/0	8/0	12/0	18/0	24/0	24/0
Cable OD-mm(in)	5.1(0.20)	5.9(0.23)	6.2(0.24)	7.4(0.29)	9.6(0.38)	9.8(0.39)	11.5(0.45)	13.3(0.52)
Cable weight-kg/km(lb/1000ft)	22(14.8)	32(21.5)	33(22.2)	50(33.6)	79(53.1)	75(50.4)	103(69.2)	136(91.4)
Min. microduct ID – mm	7	7	8	9	12	12	14	16

AntCore™ HD

Fiber type	200um G657A2							
Fiber count	72	96	144	192	288	432	576	864
No. of fibers per tube	12	12	24	24	24	24	24	36
Stranding no.-tube No./filler No.	6/0	8/0	6/0	8/0	12/0	18/0	24/0	24/0
Cable OD-mm(in)	4.5(0.18)	5.2(0.20)	5.3(0.21)	6.3(0.25)	8.1(0.32)	8.3(0.33)	9.7(0.38)	11.2(0.44)
Cable weight-kg/km(lb/1000ft)	19(12.8)	27(18.1)	28(24.4)	41(27.6)	66(44.3)	64(43.0)	93(62.4)	123(82.7)
Min. microduct ID – mm	5.5	6	7	8	10	10	12	13

AntCore™ Extreme

Fiber type	180um G657A2							
Fiber count	72	96	144	192	288	432	576	864
No. of fibers per tube	12	12	24	24	24	24	24	36
Stranding no.-tube No./filler No.	6/0	8/0	6/0	8/0	12/0	18/0	24/0	24/0
Cable OD-mm(in)	4.2(0.17)	4.7(0.19)	5.1(0.20)	5.8(0.23)	7.6(0.30)	8.2(0.32)	8.8(0.35)	10(0.39)
Cable weight-kg/km(lb/1000ft)	17(11.4)	23(15.5)	26(17.5)	36(24.2)	60(40.3)	58(39.0)	83(55.8)	106(71.2)
Min. microduct ID – mm	5	5.5	6	7	9	10	11	12