



## MicroCore® Blown Fiber Optic Cable

AFL MicroCore® is an advanced Blown Fiber Optic Cable system for underground duct cables. The MicroCore product line is a complete solution with designs suitable for many applications and needs from backbone networks to FTTx. Whether the need is for high Fiber density or small cable diameter, the MicroCore range has the solution. Designs are always based on minimal cable and duct diameters for cost effective installation and materials.

MicroCore cables are jetted through a network of microducts using compressed air. Conduit systems can be laid and microducts and cable can be blown in as and when required, giving installers the flexibility of deploying fiber only when needed and reducing initial investment costs. Making provisions for future installations also means that only the very latest fiber optic technology is used and therefore scaled to changing market demands.

The MicroCore system can be used for overriding existing networks and conduits, which reduces network disruption and expensive excavation costs and permits during installation. MicroCore cable is lightweight and flexible made with a specially designed low friction jacket to enable greater jetting lengths to reduce time and cost.

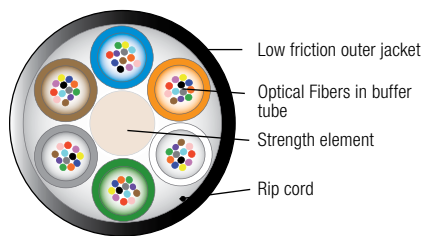


### Features

- Scalable deployment
- Rapid cost effective installation
- Fiber counts up to 144
- Range of cable designs and sizes to suit a variety of duct size
- No EMI or earth bonding limitations
- Fiber arranged in buffer tubes some designs suitable for 12-Fiber management
- Suitable for microducts supplied by all manufacturers
- Installation speeds of up to 120m/min. & over 2.5km lengths at a time
- Robust for handling in the field
- High level bend capacity
- Low friction jacket design
- Easy access and breakout of Fibers

### Cable Components

*Multi-tube Design (4-8 tubes)*



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### Mechanical Data

PART NUMBER (n=number of fibers)	MAX. FIBERS	NO. OF TUBES	OUTSIDE DIAMETER mm (inches)	UNIT WEIGHT kg/km (lbs/1000ft)	STORAGE TEMP. °C	OPERATING TEMP. °C	MAX. INSTALLATION TENSILE LOAD kN (lbs)	MIN. BEND RADIUS mm (inches)	CABLE MARKING	SUITABLE SUB-DUCT SIZE ID mm (inches)
MCnnDA4-4.2	24	4	4.2 ± 0.1 (0.16)	16 ± 1 (11)	-20 to +65	-20 to +65	0.25 (56)	90 (3.5)	yes	5.5 (0.21)
MCnnDA4-6.1	72	4	6.1 ± 0.1 (0.24)	30 ± 1 (20)	-30 to +85	-30 to +85	0.3 (67)	130 (5.1)	yes	8 (0.31)
MCnnDA4-7.4	96	4	7.4 ± 0.1 (0.29)	44 ± 1 (30)	-20 to +65	-20 to +65	0.35 (79)	150 (5.9)	yes	10 (0.39)
MCnnDA6-6.1	72	6	6.1 ± 0.1 (0.24)	30±1 (20)	-40 to +85	-40 to +85	0.35 (79)	130 (5.1)	yes	8 (0.31)
MCnnDA6-7.4	96	6	7.4 ± 0.1 (0.29)	43 ± 1 (29)	-20 to +65	-20 to +65	1.2 (270)	150 (5.9)	yes	10 (0.39)
MCnnDA6-7.9	144	6	7.9 ± 0.1 (0.31)	43 ± 1 (29)	-30 to +65	-30 to +65	0.3 (67)	135 (5.3)	yes	10 (0.39)
MCnnDA6-9.2	144	6	9.2 ± 0.1 (0.36)	65 ± 1 (44)	-40 to +85	-40 to +85	1.5 (337)	190 (7.5)	yes	12 (0.47)
MCnnDA8-6.6	96	8	6.6 ± 0.1 (0.25)	33 ± 1 (22)	-40 to +65	-40 to +65	0.2 (45)	130 (5.1)	yes	8 (0.31)
MCnnDA8-7.6	96	8	7.6 ± 0.1 (0.29)	53 ± 1 (36)	-40 to +85	-40 to +85	0.6 (135)	150 (5.9)	yes	10 (0.39)

- NOTES: 1. All cable designs are available with all fibre types including; low bend, low water peak, MM, SMF.  
2. All cable designs are available with tube or jacket colours to EIA 598 or customer specification  
3. All cable designs are available with fibre colours to EIA 598 or customer specification  
4. Cable markings are available to customer specification on highlighted designs

### Fiber Specifications

FIBER TYPE	INCOMING ATTENUATION (DB/KM)					
	850nm	1300nm	1310nm	1383nm	1550nm	1625nm
Single-Mode	—	—	0.35	0.35	0.24	0.20
Non Zero Dispersion Shifted	—	—	—	—	0.25	0.25
Low Bend	—	—	0.35	0.35	0.20	0.23
Multi-mode 50/125	2.5	0.8	—	—	—	—
Multi-mode 62.5/125	3.0	0.7	—	—	—	—

