

Aeroquip by Danfoss | FC500 EDGE series fact sheet

# Aeroquip by Danfoss FC500 hose



The FC500 hose is now part of the EDGE series, delivering premium performance for extreme applications. This flexible, high-pressure four and six-wire spiral hose is qualified to a 1/2 SAE bend radius. Now featuring a DuraTUFF+ cover for 100x better abrasion resistance than standard hoses, the FC500 EDGE series is built to last.

## The EDGE six-point system

| Features:                                                                                                                                 | Benefits:                                                                                                                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• 1,000,000 Impulse Cycles</li> </ul>                                                              | <ul style="list-style-type: none"> <li>• Extends hose life, reduces downtime, and lowers replacement costs.</li> </ul>                             |
| <ul style="list-style-type: none"> <li>• Higher Pressure Performance</li> </ul>                                                           | <ul style="list-style-type: none"> <li>• Allows for use in more powerful applications and provides a greater safety factor.</li> </ul>             |
| <ul style="list-style-type: none"> <li>• Tighter Bend Radius<br/>DuraFLX™ technology offers 1/2 bend radius</li> </ul>                    | <ul style="list-style-type: none"> <li>• Enables faster, easier installation, especially in tight spaces.</li> </ul>                               |
| <ul style="list-style-type: none"> <li>• Wide Temperature Range</li> </ul>                                                                | <ul style="list-style-type: none"> <li>• Ensures reliable performance in extreme hot and cold conditions.</li> </ul>                               |
| <ul style="list-style-type: none"> <li>• 100x Abrasion Resistance<br/>DuraTUFF+™ cover with 100x the abrasion of standard hose</li> </ul> | <ul style="list-style-type: none"> <li>• Protects against external wear, significantly increasing durability.</li> </ul>                           |
| <ul style="list-style-type: none"> <li>• Class 0 Leakage</li> </ul>                                                                       | <ul style="list-style-type: none"> <li>• Guarantees leak-free connections, improving safety and efficiency while preventing fluid loss.</li> </ul> |



## Markets & Applications:

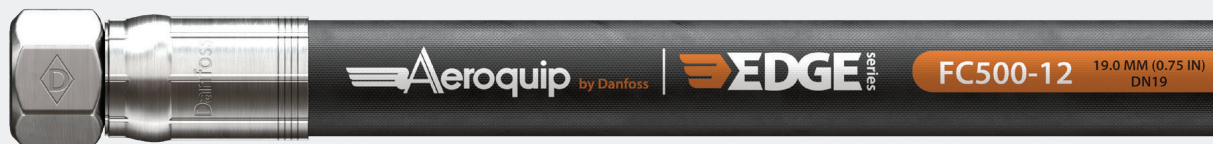
Ultra high pressure applications compatible with petroleum and water-based fluids

Learn more at  
[danfoss.com/edge](https://danfoss.com/edge)



EDGE Premier Hydraulic Series • Spiral

**FC500** | Core premium  
four & six wire spiral hose



**Meets or exceeds:**

SAE 100R13 | EN 856 R13 | ISO 3862 | ISO 18752

**Typical application:**

Ultra high pressure applications compatible  
with petroleum and water-based fluids

**Agency specifications:** DNV | MSHA | USCG

**Inner tube:** Nitrile

**Hose construction:**  
**Reinforcement:**  
Four wire spiral  
Six wire spiral (-32)

**Cover:** DuraTUFF+ premium abrasion

**Operating temperature:** -40°C to +127°C (-40°F to +260°F)

**Qualified fittings:** 4S series (-12 to -24) | 6S series (-32)

| PART              | SIZE DIMENSIONS |      |                        |      | PRESSURE         |       |                     |        | BEND             |       | WEIGHT |        |
|-------------------|-----------------|------|------------------------|------|------------------|-------|---------------------|--------|------------------|-------|--------|--------|
| #                 | Hose I.D.       |      | Hose O.D.<br>(nominal) |      | Working Pressure |       | Min. Burst Pressure |        | Min. Bend Radius |       | Weight |        |
|                   | mm              | in   | mm                     | in   | bar              | psi   | bar                 | psi    | mm               | in    | kg/m   | lbs/ft |
| <b>FC500-12</b>   | 19,0            | 0.75 | 31,0                   | 1.22 | 350,0            | 5,100 | 1,400               | 20,400 | 121,0            | 4.75  | 1,28   | 0.86   |
| <b>FC500-16</b>   | 25,4            | 1.00 | 38,4                   | 1.51 | 350,0            | 5,100 | 1,400               | 20,400 | 152,0            | 6.00  | 1,85   | 1.24   |
| <b>FC500-20</b>   | 31,8            | 1.25 | 45,5                   | 1.79 | 350,0            | 5,100 | 1,400               | 20,400 | 210,0            | 8.25  | 2,50   | 1.68   |
| <b>FC500-24</b>   | 38,1            | 1.50 | 53,5                   | 2.11 | 350,0            | 5,100 | 1,400               | 20,400 | 254,0            | 10.00 | 3,38   | 2.27   |
| <b>FC500-32**</b> | 50,8            | 2.00 | 71,8                   | 2.83 | 350,0            | 5,100 | 1,400               | 20,400 | 476,0            | 18.75 | 6,07   | 4.08   |

\*\* Six wire spiral

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