



# EC881 1 Million Impulse cycle Two wire Braided hose



Eaton is excited to introduce Dynamax EC881, a new high performing two wire braided hose qualified to 1 Million impulse cycles. Impulse cycles are key measure in the life expectancy and overall quality of a hydraulic hose. Compared to standard EN857 2SC hoses, which are qualified to 200 000 cycles EC881 exceed the standard by 5X and provides exceptional performance in tough applications. EC881 also exceed the 2SC pressure ratings which extends the range in which hydraulic systems this hose can be used. See below for some typical applications.

#### **Application**

- Compact construction equipment
- Agricultural equipment
- Mining
- Oil & Gas
- Other industrial applications needing 2SC pressures

#### **Features**

- 1 million impulse cycle performance
- Higher pressure ratings than standard two wire braided hose
- Low compression set due to new generation inner tube
- EC881 provides superior flexibility (1/3 SAE 100R2 bend radius at 100°C)
- Dura-Tuff cover

#### **Benefits**

- Extended product life expectancy over standard EN857 Type 2SC hoses
- Allows for use in a broader range of hydraulic systems where four spiral hoses may have been required in the past
- Better sealing and leak free performance
- Improved flexibility for easier installation in tight spaces
- Provides additional abrasion resistance which is a leading cause of hydraulic hose failures



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# Eaton DYNAMAX EC881

Exceed EN857 Type 2SC



| #<br>Part Number | Hose I.D. |      |      | Hose O.D. |      | Max. Operating Pressure |      | Burst Pressure |       | Min. Bend Radius |      | Weight |       |
|------------------|-----------|------|------|-----------|------|-------------------------|------|----------------|-------|------------------|------|--------|-------|
|                  | DN        | mm   | in   | mm        | in   | bar                     | psi  | bar            | in    | mm               | in   | kg/m   | lb/ft |
| EC881-4          | 6         | 6.4  | 0.25 | 14.2      | 0.56 | 450                     | 6525 | 1800           | 26100 | 33               | 1.3  | 0.32   | 0.22  |
| EC881-6          | 10        | 9.5  | 0.38 | 18.3      | 0.72 | 400                     | 5800 | 1600           | 23200 | 42               | 1.65 | 0.42   | 0.28  |
| EC881-8          | 12        | 12.7 | 0.5  | 21.5      | 0.85 | 360                     | 5220 | 1440           | 20880 | 60               | 2.36 | 0.58   | 0.39  |
| EC881-10         | 16        | 15.9 | 0.63 | 24.7      | 0.97 | 350                     | 5075 | 1400           | 20300 | 68               | 2.68 | 0.75   | 0.50  |
| EC881-12         | 19        | 19   | 0.75 | 28.6      | 1.13 | 330                     | 4785 | 1320           | 19140 | 80               | 3.15 | 1.03   | 0.69  |
| EC881-16         | 25        | 25.4 | 1    | 36.6      | 1.44 | 280                     | 4060 | 1120           | 16240 | 150              | 5.91 | 1.47   | 0.99  |

## Construction

- Synthetic rubber tube
- 2 wire braid reinforcement
- DURA-TUFF synthetic rubber cover

## Operating temperature

-46°C to +126°C\*  
(-50°F to +259°F)  
\* at 1/2 SAE 100R2 bend radius

## Agency listings

MSHA approved

## Application

Hydraulic systems with petroleum and water-based fluids, for general industrial service

## Approved fittings

- TTC series