

**Eaton EC600 X-FLEX**  
SAE 100R15 & ISO18752-DC Performance

# EC600 "X-FLEX" ½ Bend Radius 420bar Spiral Hydraulic Hose



Eaton is excited to introduce EC600, a more flexible SAE 100R15 spiral hose to compliment the current offering of Eaton's FC500 "X-FLEX" SAE 100R13 spiral hose offering. FC500 & EC600 were designed to perform in very demanding high impulse applications at 50% of the SAE 100R13 and SAE 100R15 bend radii, respectively.

In order to install a spiral hose in a much smaller area, Eaton designed our "X-FLEX" spiral hoses to be up to 38% more flexible for easier handling during installation. EC600 hose meets and exceeds SAE 100R15 performance at ½ the bend radius of a standard SAE 100R15 hose. EC600 has been tested to beyond SAE 100R15 impulse cycle requirements with an operating pressure of 420bar (6100psi).

EC600 high pressure spiral hydraulic hose was designed to meet the most demanding applications where very high pressure and the need for easy installation in tight spaces come together. EC600 X-FLEX exceeds SAE 100R15 performance and ISO 18752-DC.

## Application

High pressure hydraulic circuits on mobile construction equipment, mining equipment, and industrial applications for pressures up to 420bar.

**EC600 X-FLEX**  
tested to beyond  
SAE 100R15 impulse  
cycle requirements at  
½ bend radius.

## Features

- 4 and 6 spiral wire reinforcement
- High abrasion resistant cover (DURA-TUFF™/WeatherSHIELD™)
- ½ Bend Radius vs SAE 100R15
- Improved Force-to-Bend
- SAE J1176 – Class 0 Cool Down Leakage
- Hose materials meet global REACH requirements
- Exceeds 100R15 and ISO 18752-DC Performance

## Benefits

- Reduction in weight of spiral hose assembly and better hose flexibility
- Offers longer hose life in applications that see high abrasion
- Meets / exceeds industry requirements at 50% of the installed hose bend
- Improved flexibility for easier installation in tight spaces
- No fluid leakage between hose and fitting when machine is shut down and system cools
- Hose materials are environmentally friendly
- Longer hose assembly life means more uptime and reduced overall operating costs

**EATON**

Powering Business Worldwide

## EC600 X-FLEX

Four Spiral Wire / Six Spiral Wire

Exceeds: SAE 100R15, ISO 18752-DC\*



# 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
EC600-12	19	19,1	0.75	33,3	1.31	420	6100	1680	24,400	135	5.31	1.52	1.01
EC600-16	25	25.4	1.00	39.4	1.55	420	6100	1680	24,400	165	6.5	2.04	1.36
EC600-20	31	31.8	1.25	50.5	1.99	420	6100	1680	24,400	225	8.86	3.89	2.61

### Construction

- Synthetic rubber tube
- 4 and 6 spiral wire reinforcement
- High abrasion resistant cover (DURA-TUFF™/WeatherSHIELD™)
- Ink transfer layline

### Operating temperature

-40°C to +121°C  
(-40°F to +250°F)

### Agency listing

MSHA IC-84/19

### Approved fittings

- Approved with 4S/6S fitting series for SAE 100R15 ½ Bend & ISO18752-CC
- \*Approved with 1W fitting series for SAE 100R15 ½ Bend & ISO18752-DC

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