

Winner braided hoses

EC110 Hydraulic hose

Meets: SAE 100R1 • EN 853 1SN



Layline example:

Winner by Danfoss **EC110-04** 6.4 MM (0.25 IN) DN6 | SAE 100R1 • EN 853 1SN MSHA IC-84/41 • DNV | 225 BAR (3250 PSI) | -40°C to +100°C (-40°F to +212°F) 1A 2pc

Construction: Inner Tube: Synthetic rubber Reinforcement: One steel braid Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC110-04L	6.4	0.25	14.1	0.56	225	3,250	900	13,000	100	3.94	0.22	0.15
EC110-05L	7.9	0.31	15.7	0.62	215	3,125	860	12,500	115	4.53	0.26	0.17
EC110-06L	9.5	0.38	18.1	0.71	180	2,600	720	10,400	130	5.12	0.33	0.22
EC110-08L	12.7	0.50	21.4	0.84	160	2,300	640	9,200	180	7.09	0.41	0.28
EC110-10L	15.9	0.62	24.5	0.96	130	1,900	520	7,600	200	7.87	0.47	0.32
EC110-12L	19.0	0.75	28.5	1.12	105	1,525	420	6,100	240	9.45	0.59	0.40
EC110-16L	25.4	1.00	36.6	1.44	88	1,275	352	5,100	300	11.81	0.87	0.58
EC110-20L	31.8	1.25	44.8	1.76	63	925	252	3,700	420	16.54	1.20	0.81
EC110-24L	38.1	1.50	52.1	2.05	50	725	200	2,900	500	19.69	1.40	0.94
EC110-32L	50.8	2.00	65.5	2.58	40	580	160	2,320	630	24.80	1.91	1.28
EC110-40L*	63.5	2.50	78.0	3.07	40	580	200	2,900	762	30.00	2.52	1.69
EC110-48L*	76.2	3.00	90.5	3.56	35	508	160	2,320	900	35.43	2.70	1.81

* Only bulk hose

Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Fittings: 1A-Series, Two-piece Winner

Typical Application:
Hydraulic system service with petroleum and water based fluids, for general industrial service.

Agency Specifications:
MSHA
DNV

EC115 Hydraulic hose

Meets: EN857 1SC



Layline Example:

Winner by Danfoss **EC115-08** 12.7 MM (0.50 IN) DN12 | EN857 1SC • MSHA IC-84/41 DNV • USCG ⚡ | 160 BAR (2300 PSI) | -40°C to +100°C (-40°F to +212°F) 1A 2PC

Construction: Inner Tube: Synthetic rubber Reinforcement: 1 steel braid Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC115-04L	6.4	0.25	12.6	0.50	225	3,250	900	13,000	50	1.97	0.18	0.12
EC115-06L	9.5	0.38	16.0	0.63	180	2,600	720	10,400	63	2.48	0.26	0.17
EC115-08L	12.7	0.50	19.4	0.77	160	2,300	640	9,200	90	3.54	0.34	0.23
EC115-10L	15.9	0.62	22.4	0.88	130	1,900	520	7,600	100	3.94	0.42	0.28
EC115-12L	19.0	0.75	26.0	1.02	105	1,525	420	6,100	120	4.72	0.50	0.34
EC115-16L	25.4	1.00	33.8	1.33	88	1,275	352	5,100	160	6.30	0.74	0.50
EC115-20L	31.8	1.25	41.2	1.62	63	925	252	3,700	210	8.27	0.99	0.67
EC115-24L	38.1	1.50	48.0	1.89	50	725	200	2,900	300	11.81	1.20	0.81
EC115-32L	50.8	2.00	61.0	2.41	40	580	160	2,320	400	15.75	1.50	1.01

Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Fittings: 1A-Series | Two-piece Winner

Typical Application:
Hydraulic system service with petroleum and water based fluids, for general industrial service.

Agency Specifications:
MSHA
DNV
USCG

Winner braided hoses

EC210 Hydraulic hose

Meets: SAE 100R2 • EN 853 2SN



Layline example:

Winner by Danfoss **EC210-16** 25.4 MM (1.00 IN) DN25 | SAE 100R2 • EN 853 2SN | MSHA IC-84/41 • DNV | 165 BAR (2400 PSI) | -40°C to +100°C (-40°F to +212°F) | 1A 2PC 800

Construction: Inner Tube: Synthetic rubber Reinforcement: Two steel braids Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC210-04L	6.4	0.25	15.7	0.62	400	5,800	1,600	23,200	100	3.94	0.38	0.26
EC210-05L	7.9	0.31	17.3	0.68	350	5,100	1,400	20,400	115	4.53	0.43	0.29
EC210-06L	9.5	0.38	19.7	0.78	330	4,800	1,320	19,200	130	5.12	0.54	0.36
EC210-08L	12.7	0.50	23.0	0.91	275	4,000	1,100	16,000	180	7.09	0.64	0.43
EC210-10L	15.9	0.62	26.2	1.03	250	3,650	1,000	14,600	200	7.87	0.75	0.50
EC210-12L	19.0	0.75	30.1	1.19	215	3,125	860	12,500	240	9.45	0.93	0.62
EC210-16L	25.4	1.00	38.9	1.53	165	2,400	660	9,600	300	11.81	1.29	0.87
EC210-20L	31.8	1.25	49.5	1.95	125	1,800	500	7,200	420	16.54	1.89	1.27
EC210-24L	38.1	1.50	55.9	2.20	90	1,300	360	5,200	500	19.69	2.10	1.41
EC210-32L	50.8	2.00	68.6	2.70	80	1,150	320	4,600	630	24.80	2.76	1.85
EC210-40L*	63.5	2.50	81.0	3.19	69	1,000	300	4,350	760	29.92	3.80	2.55
EC210-48L*	76.2	3.00	93.0	3.66	50	725	240	3,500	900	35.43	4.03	2.71

*Only bulk hose

Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Fittings: 1A-Series, Two-piece Winner

Typical Application:

Hydraulic system service with petroleum and water based fluids, for general industrial service.

Agency Specifications:

MSHA
DNV

EC215 Hydraulic hose

Meets: EN857 2SC • ISO 18752



Layline Example:

Winner by Danfoss **EC215-06** 9.5 mm (0.38 in) DN10 | EN857 2SC • ISO 18752 | MSHA IC-84/41 • DNV • USCG + | 345 BAR (5000 PSI) | -40°C to +100°C (-40°F to +212°F) | HALF BEND | 1A 2PC 800

Construction: Inner Tube: Synthetic rubber Reinforcement: 2 steel braid Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC215-04L	6.4	0.25	13.5	0.53	400	5,800	1,600	23,200	50	1.97	0.28	0.19
EC215-06L	9.5	0.38	17.5	0.69	345	5,000	1,380	20,000	65	2.56	0.41	0.28
EC215-08L	12.7	0.50	20.8	0.82	275	4,000	1,100	16,000	90	3.54	0.57	0.38
EC215-10L	15.9	0.62	24.0	0.94	250	3,650	1,000	14,600	100	3.94	0.68	0.46
EC215-12L	19.0	0.75	27.9	1.10	215	3,125	860	12,500	120	4.72	0.81	0.54
EC215-16L	25.4	1.00	35.7	1.40	165	2,400	660	9,600	160	6.30	1.17	0.79
EC215-20L	31.8	1.25	43.9	1.73	125	1,800	500	7,200	250	9.84	1.56	1.05
EC215-24L	38.1	1.50	51.0	2.01	100	1,450	400	5,800	300	11.81	1.81	1.22
EC215-32L	50.8	2.00	63.4	2.50	90	1,300	360	5,200	400	15.75	2.36	1.59

Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Fittings: 1A-Series | Two-piece Winner

Typical Application:

Hydraulic system service with petroleum and water based fluids, for general industrial service.

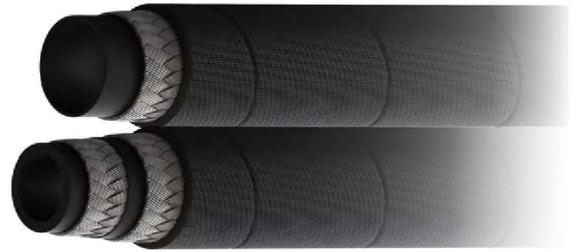
Agency Specifications:

MSHA
DNV
USCG

Winner braided hoses

EC118 Hydraulic hose

Meets: SAE 100R17 • ISO 18752



Layline Example:

Winner by Danfoss **EC118-08** 12.7 mm (0.50 in) DN12 | SAE 100R17 • ISO 18752 MSHA IC-84/41 • USCG | 210 BAR (3050 PSI) -40°C to +100°C -40°F to +212°F 1A 2PC

Construction: Inner Tube: Synthetic rubber Reinforcement: 1 wire braid: -04, -06, -08; 2 wire braid: -10, -12, -16 Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC118-04L	6,4	0.25	12,2	0.48	210,0	3050	840,0	12200	50,8	2.00	0,18	0.12
EC118-06L	9,5	0.38	15,5	0.61	210,0	3050	840,0	12200	63,5	2.50	0,27	0.18
EC118-08L	12,7	0.50	19,0	0.75	210,0	3050	840,0	12200	88,9	3.50	0,36	0.24
EC118-10L	15,9	0.62	23,8	0.94	210,0	3050	840,0	12200	101,6	4.00	0,69	0.46
EC118-12L	19,0	0.75	27,7	1.09	210,0	3050	840,0	12200	120,7	4.75	0,81	0.54
EC118-16L	25,4	1.00	36,0	1.42	210,0	3050	840,0	12200	152,4	6.00	1,21	0.81

Typical Application:

Low and medium pressure hydraulic systems with petroleum and water-based fluids
Construction equipment and agriculture equipment

Agency Specifications:

MSHA
USCG

Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Fittings: 1A-Series | Two-piece Winner

EC082 Pilot line hydraulic hose

Meets: MSHA IC-84/41



Layline example:

Winner by Danfoss **EC082-04** 6.4 MM (0.25 IN) DN6 | 150 BAR (2175 PSI) -40°C to +100°C -40°F to +212°F 2pc

Construction: Inner Tube: Synthetic rubber Reinforcement: One steel braid Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC082-04	6,4	0,25	11,5	0,45	150	2175	600	8700	25	0,98	0,15	0,10
EC082-06	9,5	0,38	14,8	0,58	120	1750	480	7000	40	1,57	0,20	0,13

Typical Application:

Hydraulic system service with petroleum and water based fluids, for general industrial service.

Agency Specifications:

MSHA

Operating Temperature: -40°C to +100°C (-40°F to +212°F)

Fittings: Two-piece Winner (00110-04FEWZD, 00110-06EEWZD)

EC420 Hydraulic hose

Meets: SAE 100R13 • ISO 18752



Layline Example:

Winner by Danfoss **EC420-16** 25.4 MM (1.00 IN) DN25 | SAE 100R13 • EN 856 R13 • ISO 18752 | MSHA IC-84/41 • DNV • USCG | **350 BAR (5100 PSI)** | -40°C to +121°C (-40°F to +250°F) | Half Bend | **4S**

Construction: Inner Tube: Synthetic rubber Reinforcement: 4 wire spiral: -12, -16; 6 wire spiral: -20 to -32 Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC420-12	19.0	0.75	32.1	1.27	350	5,100	1,400	20,400	120	4.72	1.54	1.03
EC420-16	25.4	1.00	38.7	1.53	350	5,100	1,400	20,400	150	5.91	2.01	1.35
EC420-20	31.8	1.25	49.8	1.96	350	5,100	1,400	20,400	210	8.27	3.78	2.54
EC420-24	38.1	1.50	57.3	2.26	350	5,100	1,400	20,400	250	9.84	4.73	3.18
EC420-32	50.8	2.00	71.6	2.82	350	5,100	1,400	20,400	320	12.60	6.26	4.21

Typical Application:
Suitable for use in hydraulic systems with high peak pressures and arduous operating conditions.

Agency Specifications:
MSHA
USCG
DNV

Operating Temperature: -40°C to +121°C (-40°F to +250°F)
Fittings: 4S series (-12, -16), 6S series (-20, -24, -32)

EC426 Hydraulic hose

Meets: EN856 4SP



Layline example:

Winner by Danfoss **EC426-12** 19 mm (0.75 in) DN19 | EN856 4SP | MSHA IC-84/41 | **350 BAR (5100 PSI)** | -40°C to +100°C (-40°F to +212°F) | **4S**

Construction: Inner Tube: Synthetic rubber Reinforcement: Four wire spiral Cover: Synthetic rubber

PART #	SIZE DIMENSIONS					PRESSURE				BEND		WEIGHT	
	Hose I.D.			Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC426-06	10	9.5	0.37	20.9	0.82	445	6,450	1,780	25,800	180	7.09	0.74	0.50
EC426-08	12	12.7	0.50	25.4	1.00	415	6,000	1,660	24,000	230	9.06	0.88	0.59
EC426-10	16	15.9	0.62	29.0	1.14	350	5,100	1,400	20,400	250	9.84	1.04	0.70
EC426-12	19	19.0	0.75	33.0	1.30	350	5,100	1,400	20,400	300	11.81	1.47	0.99
EC426-16	25	25.4	1.00	40.9	1.61	280	4,050	1,120	16,200	340	13.39	1.90	1.28
EC426-20*	31	31.8	1.25	48.6	1.91	210	3,050	840	12,200	460	18.11	2.46	1.65

*Only bulk hose

Operating Temperature: -40°C to +100°C (-40°F to +212°F)
Fittings: 1T series (-6,-8,-10) 4S series (-12,-16)

Typical Application:
Hydraulic systems service with petroleum and water based fluids, for general use.

Agency Specifications:
MSHA

Winner spiral hoses

EC512 Hydraulic hose

Meets: EN856 4SH



Layline example:

Winner by Danfoss **EC512-16** 25.4 MM (1.00 IN) DN25 | EN856 4SH MSHA IC-84/41 • DNV | **380 BAR (5500 PSI)** -40°C to $+100^{\circ}\text{C}$ -40°F to $+212^{\circ}\text{F}$ **4S**

Construction: Inner Tube: Synthetic rubber Reinforcement: Four wire spiral Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT		
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight		
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC512-12	19	19	0.75	33.0	1.30	420	6,100	1,680	24,400	280	11.02	1.47	0.99
EC512-16	25	25.4	1.00	39.9	1.57	380	5,500	1,520	22,000	340	13.39	2.04	1.37
EC512-20	31	31.8	1.25	47.1	1.85	350	5,100	1,400	20,400	460	18.11	2.39	1.61
EC512-24	38	38.1	1.05	55.1	2.17	290	4,200	1,160	16,800	560	22.05	3.19	2.14
EC512-32	51	50.8	2.00	69.7	2.74	250	3,650	1,000	14,600	700	27.56	4.37	2.94

Operating Temperature: -40°C to $+100^{\circ}\text{C}$ (-40°F to $+212^{\circ}\text{F}$)

Fittings: 4S Series (-12, -16, -20, -24, -32)

Typical Application:

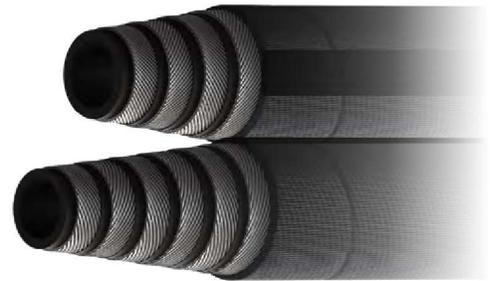
Hydraulic systems service with petroleum and water based fluids, for general use.

Agency Specifications:

MSHA
DNV

EC615 Hydraulic hose

Meets: ISO 18752 • SAE 100R15 • EN 856 R13



Layline example:

Winner by Danfoss **EC615-16** 25.4 MM (1.00 IN) DN25 | SAE 100R15 • EN 856 R13 ISO 18752 • MSHA IC-84/41 • DNV | **420 BAR (6100 PSI)** -40°C to $+121^{\circ}\text{C}$ -40°F to $+250^{\circ}\text{F}$ **4S**

Construction: Inner Tube: Synthetic rubber Reinforcement: Four & six wire spiral reinforcement Cover: Synthetic rubber

PART #	SIZE DIMENSIONS				PRESSURE				BEND		WEIGHT	
	Hose I.D.		Hose O.D. (nominal)		Working Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC615-16	25.4	1.00	39.9	1.57	420	6,100	1,680	24,400	330	12.99	2.00	1.35
EC615-20	31.8	1.25	51.3	2.02	420	6,100	1,680	24,400	445	17.52	3.77	2.53
EC615-24	38.1	1.50	58.8	2.31	420	6,100	1,680	24,400	530	20.87	5.17	3.47
EC615-32*	50.8	2.00	72.8	2.87	420	6,100	1,680	24,400	600	23.62	7.26	4.88

* Only bulk hose

Operating Temperature: -40°C to $+121^{\circ}\text{C}$ (-40°F to $+250^{\circ}\text{F}$)

Fittings: 4S series (-16) 6S series (-20, -24)

Typical Application:

Suitable for use in hydraulic and oil systems.

Agency Specifications:

MSHA
DNV