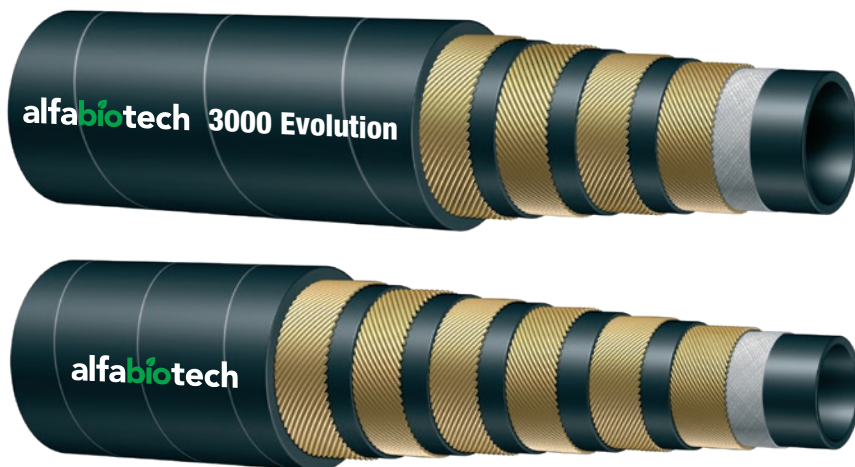


Alfabiotech Evolution 3000 MINETUFF - E3K Hydraulic Hose



E3K - 4 wire spiral

Exceeds SAE 100R12 all sizes
ISO 18752/CC 1,000,000+ impulse cycles all sizes
MSHA IC-152/16 approved flame resistance



General Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.
Reinforcement – Four/six high tensile steel spirals.
Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Service Temperature Range:

-40°F (-40°C) to +250°F (+121°C)

Branding:

ALFAGOMMA ALFABIOTECH EVOLUTION 3K MINETUFF ... WP 21 MPa (3000 PSI) - ISO 18752/CC - exceeds SAE 100 R12 - MSHA IC-152/16 - MADE IN ITALY

Length:

200 feet from 1 1/4" to 1 1/2" - 100 feet for 2"

Nominal Specifications

Series Number	Size Code	ID		OD		Max Working† Pressure (psi)	Min. Bend. Radius		Weight (lbs/ft)	Coupling Recommendations		
		(in)	(mm)	(in)	(mm)		(in)	(mm)		AlfaCrimp One-Piece	Two-Piece Ferrule Skive	
E3K	20	1 1/4	31.8	1.77	44.9	3000	8.27	210	1.27	S	B	AS4
E3K	24	1 1/2	38.1	1.99	50.6	3000	9.84	250	1.59	S	B	AS4
E3K	32	2	50.8	2.55	64.7	3000	12.52	318	2.38	S	B	AS4

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.

Alfabiotech Evolution 4000 MINETUFF - E4K Hydraulic Hose



E4K - 4 wire spiral

Exceeds SAE 100R12 sizes 3/4" and 1"
Exceeds EN856 4SH sizes 1 1/2" and 2"
ISO 18752/CC 1,000,000+ impulse cycles all sizes
MSHA IC-152/16 approved flame resistance



General Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four high tensile steel spirals.

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Service Temperature Range:

-40°F (-40°C) to +250°F (+121°C)

Branding:

ALFAGOMMA ALFABIOTECH Evolution 4K MINETUFF ... WP 28 MPa (4000 PSI) - ISO 18752/CC - MSHA IC-152/16 - MADE IN ITALY

Length:

Random up to 1" - 200 feet from 1 1/4" to 2"

Nominal Specifications

Series Number	Size Code	ID		OD		Max Working Pressure† (psi)	Min. Bend. Radius		Weight (lbs/ft)	Coupling Recommendations				
		(in)	(mm)	(in)	(mm)		(in)	(mm)		Two-Piece				
										AlfaCrimp One-Piece	Ferrule Non-Skive	Ferrule Skive & Interlock		
E4K	06	3/8	9.5	0.78	19.8	4000	2.95	75.0	0.42	S	D	AF4	AS4	
E4K	08	1/2	12.7	0.89	22.5	4000	3.54	90.0	0.42	S	D	AF4	AS4	
E4K	10	5/8	15.9	1.00	25.4	4000	3.94	100.0	0.60	S	D	AF4	AS4	
E4K	12	3/4	19.1	1.14	29.0	4000	4.72	120.0	0.66	S	D	AF4	AS4	
E4K	16	1	25.4	1.46	37.2	4000	5.91	150.0	1.00	S	D	AF4	AS4	YS2
E4K	20	1 1/4	31.8	1.74	44.2	4000	8.27	210.0	1.49	S			AS4	XF2 YS2
E4K	24	1 1/2	38.1	1.99	50.6	4000	9.84	250.0	1.76	S			AS4	XF2 YS2
E4K	32	2	50.8	2.55	64.7	4000	12.52	318.0	2.69	S			AS4	XF2 YS2

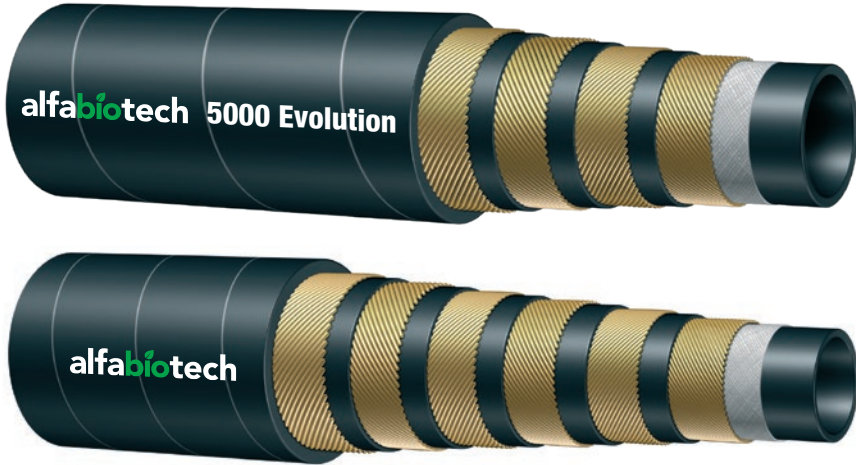
† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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Alfabiotech Evolution 5000 MINETUFF - E5K Hydraulic Hose

NEW



E5K - 4 or 6 wire spiral

Exceeds EN856 4SP sizes 5/8", 3/4" and 1"

Exceeds EN856 4SH sizes 1 1/4"

Exceeds SAE 100R13 sizes 5/8" through 2"

ISO 18752/CC 1,000,000+ impulse cycles all sizes

MSHA IC-152/16 approved flame resistance



General Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four/six high tensile steel spirals.

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Service Temperature Range:

-40°F (-40°C) to +250°F (+121°C)

Branding:

ALFAGOMMA ALFABIOTECH EVOLUTION 5K MINETUFF ... WP 35 MPa (5000 PSI) - ISO 18752/CC - MSHA IC-152/16 - MADE IN ITALY

Length:

Random up to 1" - 200 feet from 1 1/4" to 1 1/2" - 100 feet from 2"

Nominal Specifications

Series Number	Size Code	ID		OD		Max Working [†] Pressure (psi)	Min. Bend. Radius		Weight (lbs/ft)	Coupling Recommendations				
		(in)	(mm)	(in)	(mm)		(in)	(mm)		AlfaCrimp One-Piece	Two-Piece			
		Ferrule Skive			Ferrule Interlock									
E5K	10	5/8	15.9	1.00	25.4	5000	3.94	100.0	0.57	S		AS4		
E5K	12	3/4	19.1	1.16	29.4	5000	4.72	120.0	0.79	S	F	AS4	XF2	YS2
E5K	16	1	25.4	1.47	37.4	5000	5.91	150.0	1.10	S	F	AS4	XF2	YS2
E5K	20	1 1/4	31.8	1.73	44.0	5000	8.27	210.0	1.49	S	F		XF2	YS2
E5K	24	1 1/2	38.1	2.16	54.8	5000	9.84	250.0	2.64	S	F		XF1	YS1
E5K	32	2	50.8	2.70	68.7	5000	12.52	318.0	3.89	S	F		XF1	YS1

[†] Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

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HOSES

ONE-PIECE B SERIES

ONE-PIECE D SERIES

ONE-PIECE F & P SERIES

TWO-PIECE FERRULES (A & PFR SERIES)

TWO-PIECE INSERTS (A SERIES)

TWO-PIECE INTERLOCK FERRULES & INSERTS (X & Z SERIES)

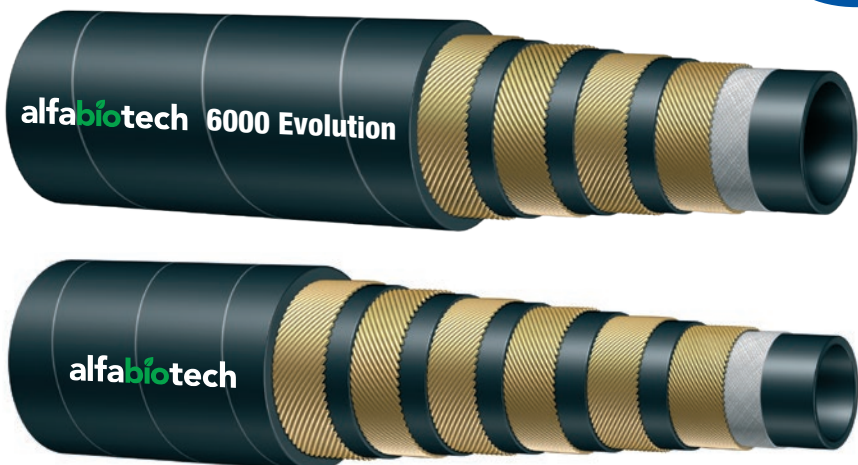
QUICK RELEASE

ASSEMBLY EQUIPMENT

TECHNICAL INFORMATION

Alfabiotech Evolution 6000 MINETUFF - E6K Hydraulic Hose

NEW



E6K - 4 or 6 wire spiral

Exceeds EN856 4SP sizes 1/4", 3/8" and 1/2"

Exceeds EN856 4SH sizes 3/4" and 1"

Exceeds SAE 100R15 sizes 1" through 2"

ISO 18752/CC 1,000,000+ impulse cycles all sizes

MSHA IC-152/16 approved flame resistance



General Applications:

Developed to withstand very demanding conditions very high performance in pressure, pulsing and flexing.

Construction:

Tube – Oil resistant synthetic rubber and biodegradable hydraulic fluids.

Reinforcement – Four/six high tensile steel spirals.

Cover – Abrasion, ozone and hydrocarbon resistant synthetic rubber.

Service Temperature Range:

-40°F (-40°C) to +250°F (+121°C)

Branding:

ALFAGOMMA ALFABIOTECH EVOLUTION 6K MINETUFF ... WP 45 MPa (6550 PSI) - ISO 18752/CC- MSHA IC- 152/16 - MADE IN ITALY

Length:

Random up to 1" - 200 feet from 1 1/4" to 1 1/2" - 100 feet for 2"

Nominal Specifications

Series Number	Size Code	ID		OD		Max Working Pressure (psi)	Min. Bend. Radius		Weight (lbs/ft)	Coupling Recommendations		
		(in)	(mm)	(in)	(mm)		(in)	(mm)		AlfaCrimp One-Piece	Two-Piece	
											Ferrule Skive	Ferrule Interlock
E6K	4	1/4	6.4	0.67	17.0	6000	2.36	60.0	0.35	S	AS4	
E6K	6	3/8	9.5	0.78	19.8	6000	2.95	75.0	0.42	S	AS4	
E6K	8	1/2	12.7	0.89	22.5	6000	3.54	90.0	0.48	S	AS4	
E6K	10	5/8	15.9	1.09	27.8	6000	3.94	100.0	0.80	S		XF1 YS1
E6K	12	3/4	19.1	1.20	30.6	6000	4.72	120.0	0.93	S	F	XF2 YS2
E6K	16	1	25.4	1.50	38.2	6000	5.91	150.0	1.30	S	F	XF2 YS2
E6K	20	1 1/4	31.8	1.87	47.6	6000	8.86	225.0	2.01	S	F	XF1 YS1
E6K	24	1 1/2	38.1	2.14	54.4	6000	12.01	305.0	2.80	S		XF1 YS1
E6K	32	2	50.8	2.70	68.7	6000	14.96	380.0	4.09			ZF1

† Minimum burst pressure 4-to-1 safety factor.

Freight: Hydraulic Hose can be combined with other KOA products for qualifying prepaid freight orders.

Because we continually examine ways to improve our products, we reserve the right to alter specifications or discontinue products without prior notice.