

## POWERFLEXBIO EXTRA



# POWERFLEX<sup>Bio</sup> EXTRA

**SPECIALLY DESIGNED FOR TOP PERFORMANCE AND COMPATIBILITY WITH BIODEGRADABLE HYDRAULIC OILS**

Suitable for applications using conventional hydraulic oils, lubricants, antifreeze solutions air and water.

**EXTREME BEND RADIUS & FLEXIBILITY**

Powerflexbio Extra features unprecedented bend radius - **up to 60%** improvement on ISO 18752 and SAE 100 requirements.

**COMPACT DESIGN**

Compact and extremely flexible construction will allow effortless flexing in operation and during installation.

Specially designed for long service life in very demanding applications where a compact design and high pulsating pressure and tight bend radius are required.

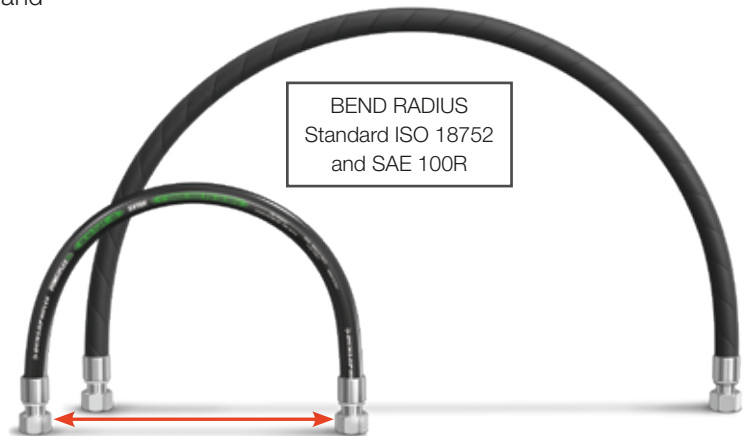
**HIGH ABRASION & FIRE RESISTANCE**

Powerflexbio hi-tuff cover is specially designed for **heavy duty mining, forestry, construction, oil & gas applications** where MSHA fire resistance, long service life and best performance are fundamental.

**EXCEEDS 1,000,000 IMPULSE TEST ACCORDING TO ISO 18752**

**POWERFLEX<sup>Bio</sup> EXTRA**

**COMPACT DESIGN  
EXTREME BEND RADIUS  
AND FLEXIBILITY**



## // HOSE

### // POWERFLEXBIO EXTRA 3000 - HI-TUFF **NEW**



**MSHA**

#### ISO 18752

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

**Reinforcement:** four high tensile steel spirals.

**Cover:** abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"

DHFI Item code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
E3KAA-20	20	32,0	1 1/4"	44,9	1,77	21,0	3000	84,0	12000	210	8,27	1,876	1,27
E3KAA-24	24	38,0	1 1/2"	50,6	1,99	21,0	3000	84,0	12000	250	9,84	2,357	1,59
E3KAA-32	32	51,0	2"	64,7	2,55	21,0	3000	84,0	12000	318	12,52	3,537	2,38

## // POWERFLEXBIO EXTRA 4000

### - HI-TUFF **NEW**



MSHA

### ISO 18752

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

**Reinforcement:** four high tensile steel spirals.

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"

DHFI Item code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
E4KAA-08	8	13,0	1/2"	22,5	0,89	28,0	4000	112,0	16000	90	3,54	0,624	0,42
E4KAA-12	12	19,0	3/4"	29,0	1,14	28,0	4000	112,0	16000	120	4,72	0,978	0,66
E4KAA-16	16	25,0	1"	37,2	1,46	28,0	4000	112,0	16000	150	5,91	1,479	1,00
E4KAA-20	20	32,0	1 1/4"	44,2	1,74	28,0	4000	112,0	16000	210	8,27	2,214	1,49
E4KAA-24	24	38,0	1 1/2"	50,6	1,99	29,0	4200	116,0	16800	250	9,84	2,610	1,76
E4KAA-32	32	51,0	2"	64,7	2,55	28,0	4000	112,0	16000	318	12,52	4,001	2,69

Tuflex version available on request.

The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

**Note:** minimum order quantity could apply on specific part numbers.

## // POWERFLEXBIO EXTRA 5000

### - HI-TUFF **NEW**



MSHA

### ISO 18752

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

**Reinforcement:** four/six high tensile steel spirals.

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"

DHFI Item code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
E5KAA-10	4WS	10	16,0	5/8"	25,4	1,00	35,0	5000	140,0	20000	100	3,94	0,845	0,57
E5KAA-12	4WS	12	19,0	3/4"	29,4	1,16	35,0	5000	140,0	20000	120	4,72	1,166	0,79
E5KAA-16	4WS	16	25,0	1"	37,4	1,47	35,0	5000	140,0	20000	150	5,91	1,634	1,10
E5KAA-20	4WS	20	32,0	1 1/4"	44,0	1,73	35,0	5000	140,0	20000	210	8,27	2,214	1,49
E5KAA-24	6WS	24	38,0	1 1/2"	54,8	2,16	35,0	5000	140,0	20000	250	9,84	3,924	2,64
E5KAA-32	6WS	32	51,0	2"	68,7	2,70	35,0	5000	140,0	20000	318	12,52	5,787	3,89

Tuflex version available on request.

The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

**Note:** minimum order quantity could apply on specific part numbers.

## // POWERFLEXBIO EXTRA 5500

### - HI-TUFF **NEW**



MSHA

### ISO 18752

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

**Reinforcement:** four high tensile steel spirals.

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random

DHFI Item code	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
E5PAA-12	12	19	3/4"	30,2	1,19	38,0	5500	152,0	22040	120	4,72	1,276	0,86
E5PAA-16	16	25	1"	37,4	1,47	38,0	5500	152,0	22040	150	5,91	1,817	1,23

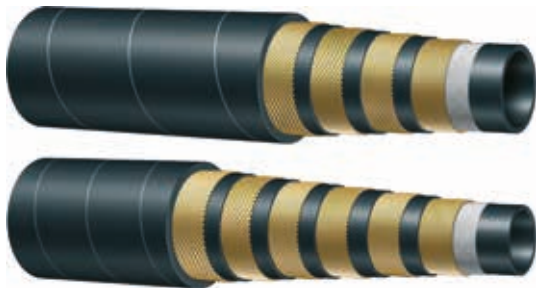
**Tuflex** version available on request.

The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

**Note:** minimum order quantity could apply on specific part numbers.

## // POWERFLEXBIO EXTRA 6000

### - HI-TUFF **NEW**



MSHA

### ISO 18752 - exceeds SAE 100 R15

**Tube:** petroleum and biodegradable hydraulic fluid resistant synthetic rubber.

**Reinforcement:** four/six high tensile steel spirals.

**Cover:** smooth up to 1", wrapped over 1". Abrasion, ozone and hydrocarbon resistant synthetic rubber.

**Application:** very high pressure hydraulic lines, fuel, oil, lubricants, antifreeze solution, air and water.

Specially designed for long service life in very demanding applications where compact design, high pulsating pressure and tight bend radius are required.

**Temperature:** -40 °C +121 °C (-40 °F +250 °F)

**Length:** random up to 1" - 61 m max over 1 1/4"

DHFI Item code	Constr.	ID (Dash)	ID (mm)	ID (in)	OD (mm)	OD (in)	WP (Mpa)	WP (psi)	BP (Mpa)	BP (psi)	BR (mm)	BR (in)	Weight (kg/m)	Weight (lb/ft)
E6KAA-04	4WS	4	6,0	1/4"	17,0	0,67	45,0	6550	180,0	26200	60	2,36	0,510	0,35
E6KAA-06	4WS	6	10,0	3/8"	19,8	0,78	44,5	6450	178,0	25800	75	2,95	0,615	0,42
E6KAA-08	4WS	8	13,0	1/2"	22,5	0,89	42,0	6000	168,0	24000	90	3,54	0,710	0,48
E6KAA-10	4WS	10	16,0	5/8"	27,8	1,09	42,0	6000	168,0	24000	100	3,94	1,190	0,80
E6KAA-12	4WS	12	19,0	3/4"	30,6	1,20	42,0	6000	168,0	24000	120	4,72	1,371	0,93
E6KAA-16	4WS	16	25,0	1"	38,0	1,50	42,0	6000	168,0	24000	150	5,91	1,926	1,30
E6KAA-20	6WS	20	32,0	1 1/4"	47,6	1,87	42,0	6000	168,0	24000	225	8,86	2,982	2,01
E6KAA-24	6WS	24	38,0	1 1/2"	54,4	2,14	42,0	6000	168,0	24000	305	12,01	4,155	2,80
E6KAA-32	6WS	32	51,0	2"	68,7	2,70	42,0	6000	168,0	24000	380	14,96	6,074	4,09

**Tuflex** version available on request.

The Ultra High Molecular Weight Polyethylene (UHMWPE) cover is specially designed for extreme applications where low friction and very high abrasion or underwater resistance are necessary.

**Note:** minimum order quantity could apply on specific part numbers.



**Dunlop Hiflex Oy**

// PIRKKALA

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