

Xtra-Guard® Flex Performance Cable



Providing excellent performance in high-flex, high-torsion, and continuous-flex applications, such as motion control and robotics

Alpha Wire's Xtra-Guard Flex performance cable is designed to deliver exceptional performance and reliability in the most strenuous of environments. Whether you are installing new systems or maintaining existing ones, these cables combine the ruggedness of the Xtra-Guard product line with high flex or continuous flex capabilities. Xtra-Guard Flex cables are used for a wide variety of flexing applications such as assembly equipment, conveyer systems, motion control, and robotic systems. These cables are available in a variety of configurations allowing exactly the right cable to be selected for your application.

Xtra-Guard Flex performance cable is available from stock in most industry-standard sizes and constructions, in cut-to-length put-ups, so you can order how much you want, when you need it. For more information, contact our Inside Sales Department at 1-800-52 ALPHA.

- Rated from 1 million to 14 million flex life cycles
- Rounded geometry insure a liquid-tight installation per IP67 or NEMA 6
- Oil, solvent and chemical resistance
- Products are available in bulk, cut to length
- Available in a wide range of gauge sizes from 28 to 2 AWG



Alpha Wire

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The extensive line of Xtra-Guard Flex Performance Cable

Alpha Wire offers a broad range of flexible cables for a wide variety of flexing applications

Flexible Control Cable



Featured with flexible PVC insulation and jackets, the Flexible Control Cable is designed for installation in C-Track or light-to-moderate flexing applications up to 1 million flex life cycles.

Flexible Torsion Control Cable



With flexible Hytrel® insulation and extra rugged Polyurethane jackets, the Flexible Torsion Control Cable is ideal for twisting and random robotic flexing applications +/- 360° per meter.

Flexible Motor Supply Cable



Combining flexibility and ease of handling, the Flexible Motor Supply Cable meets NFPA Standard 79 for industrial machinery and is ideally suited for motor and drive applications.

Continuous Flex Control Cable



Continuous Flex Control Cable is designed for extreme flexing environments up to 14 million flex life cycles. It provides outstanding service life in heavy duty, high-speed cable track applications.

Continuous Flex Data Cable



The small diameter of Continuous Flex Data Cable provides high flexibility making it ideal for industrial applications where space is a premium and when up to 6 million flex life cycles is required.

- Ultraviolet Light
- Oil, Chemicals, Solvents, Fuels
- Abrasion
- Direct Burial
- EMI Noise
- Flexing

Cable Type	Insulation/Jacket Material		Temperature Range	Features	Shielding	Conductor Range (AWG)	No. of Conductors/Pairs
	Insulation	Jacket					
Flexible Control	PVC	PVC	Flexing: -5°C to 90°C Stationary: -40°C to 90°C	For light-to-moderate flexing environments Flex life cycles: up to 1 million UL AWM Style 2587 CSA AWM I/II A/B FT1 Voltage: 600 V	Unshielded	20 - 2	2C - 50C
					Tinned Copper Braid	20 - 2	3C - 25C
Flexible Torsion Control	Hytrel	Polyurethane	Flexing: -10°C to 80°C Stationary: -30°C to 80°C	For multi-axis, torsional flexing environments Up to 360° from neutral position UL AWM Style 20234 CSA AWM I/II A/B FT1 Voltage: 600 V	Unshielded	24 - 10	3C - 7C
					Tinned Copper Spiral	24 - 10	3C - 7C
Flexible Motor Supply	PVC/Nylon	PVC	Flexing: -5°C to 90°C Stationary: -20°C to 90°C	For motor and drive applications that require flexibility UL Type TC-ER, MTW, WTTC CSA AWM I/II A/B FT4 Voltage: 600 V	Foil/Braid	16 - 6	4C
Continuous Flex Control	PVC	PVC	Flexing: -5°C to 90°C Stationary: -40°C to 90°C	For continuous rolling or bending flexing environments Flex life cycles: up to 14 million UL AWM Style 2587 CSA AWM I/II A/B FT1 Voltage: 600 V	Unshielded	20 - 2	3C - 50C
					Tinned Copper Braid	20 - 2	3C - 34C
Continuous Flex Data	PVC	PVC	Flexing: 5°C to 105°C Stationary: -10°C to 105°C	For high flexing environments Flex life cycles: up to 6 million UL Type CM CSA AWM I/II A/B FT4 CSA Type CMG Voltage: 300V	Unshielded	28 - 22	2C - 25C
					Alum/Mylar Tape	28 - 22	2C - 25C
					Foil/Braid	28 - 22	1PR - 14PR

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AlphaWire

Cables you trust. Service you deserve.