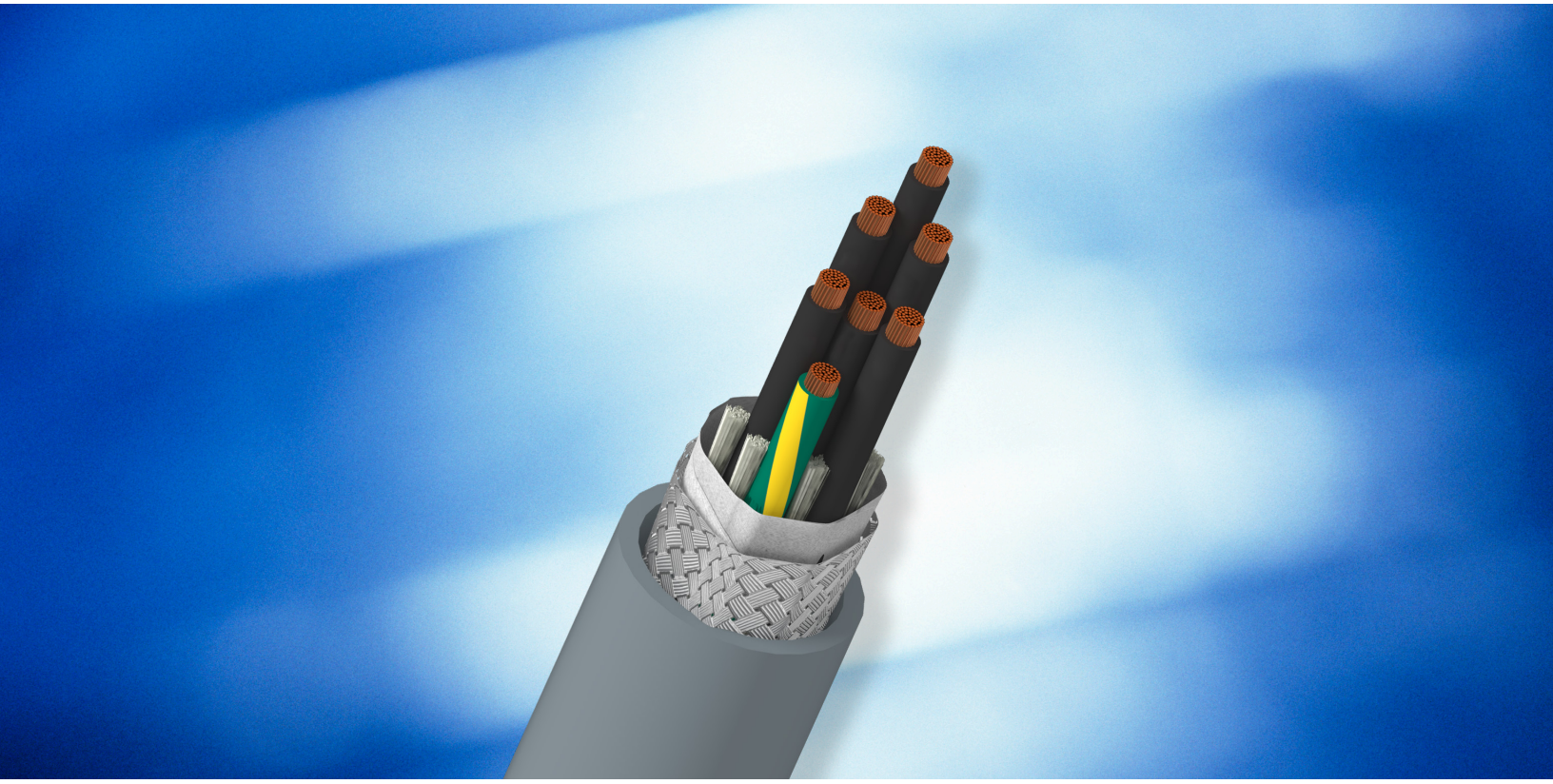
Xtra-Guard® Flex TPE Cables



The Stronger Flex Cable

AlphaWire

Xtra-Guard® Flex TPE Cables

Downtime is costly—whether caused by a complete cable failure or issues that occur when a cable does not meet the demands of its application. Alpha Wire's new Xtra-Guard TPE Flex line combines physical toughness and continuous flex performance in one cable to ensure your peace of mind.

Key Benefits

Physically Tough

Designed with a thermoplastic elastomer (TPE) jacket, Xtra-Guard TPE Flex cables offer increased ruggedness over PVC alternatives, including maximum resistance to oil, sun and flame.

Reduced Installation Costs

All cables are available with PLTC or TC rating and can be run directly from cable tray to device, minimizing the cost and time needed for cable installation.

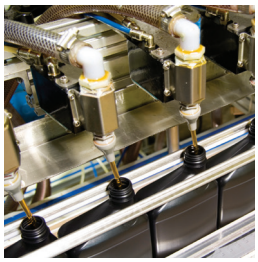
Continuous Flex Performance

Rated for 1 million flex cycles, Alpha Wire's line of continuous flex cables are designed to provide high reliability and performance in flexing applications such as manufacturing robotics and motion control.

Applications

Manufacturing and Robotics

- Pick-and-place/articulated
- Cartesian/gantry
- SCARA
- Delta/parallel
- Machine tools



Motion Control

- High-speed vision systems
- Encoder/resolver applications
- Case formers and case packers
- Conveying systems
- Vacuum packaging

Approvals

UL	CE	CSA	RoHS compliant	REACH compliant
c UL us	CE	SP	RoHS COMPLIANT	REACH COMPLIANT

Specifications

Conductor
Stranded Bare Copper

Shielding
Unshielded or Braid

Temperature Range
-30°C to 90°C (static)
-5°C to 90°C (dynamic)

Insulation
PVC/Nylon

Voltage
600V

Lengths
Available in 100 and 1000ft

UL
PLTC (except 10 AWG)
Sun Res
Oil Res I/II
TC (18 AWG and below)
AWM Style 20626 (20 AWG only)

Jacket
TPE, Slate

Bend Radius
8X

CSA International
C(RU) AWM I/II A/B FT4
C(UL) CIC CONTROL
C(UL) TC (Except 20 AWG)

Unshielded

Part Number	AWG	Stranding	Conductors	Nominal Diameter	
				Inch	mm
901003	10	105/30	3	0.486	12.34
901004	10	105/30	4	0.561	14.25
901005	10	105/30	5	0.612	15.54
901203	12	65/30	3	0.406	10.31
901204	12	65/30	4	0.442	11.23
901205	12	65/30	5	0.481	12.22
901402	14	41/30	2	0.347	8.81
901403	14	41/30	3	0.365	9.27
901404	14	41/30	4	0.396	10.06
901405	14	41/30	5	0.430	10.92
901407	14	41/30	7	0.465	11.81
901409	14	41/30	9	0.568	14.43
901412	14	41/30	12	0.627	15.93
901602	16	26/30	2	0.319	8.10
901603	16	26/30	3	0.335	8.51
901604	16	26/30	4	0.362	9.19
901605	16	26/30	5	0.392	9.96
901607	16	26/30	7	0.423	10.74
901609	16	26/30	9	0.487	12.37
901612	16	26/30	12	0.569	14.45
901802	18	19/30	2	0.299	7.59
901803	18	19/30	3	0.313	7.95
901804	18	19/30	4	0.338	8.59
901805	18	19/30	5	0.365	9.27
901807	18	19/30	7	0.393	9.98
901809	18	19/30	9	0.450	11.43
901812	18	19/30	12	0.497	12.62
902002	20	10/30	2	0.253	6.43
902003	20	10/30	3	0.265	6.73
902004	20	10/30	4	0.296	7.52
902005	20	10/30	5	0.319	8.10
902007	20	10/30	7	0.343	8.71
902009	20	10/30	9	0.413	10.49
902012	20	10/30	12	0.453	11.51

Shielded

Part Number	AWG	Stranding	Conductors	Nominal Diameter	
				Inch	mm
901003CY	10	105/30	3	0.544	13.82
901004CY	10	105/30	4	0.589	14.96
901005CY	10	105/30	5	0.640	16.26
901203CY	12	65/30	3	0.428	10.87
901204CY	12	65/30	4	0.464	11.79
901205CY	12	65/30	5	0.509	12.93
901403CY	14	41/30	3	0.387	9.83
901404CY	14	41/30	4	0.418	10.62
901405CY	14	41/30	5	0.452	11.48
901407CY	14	41/30	7	0.487	12.37
901409CY	14	41/30	9	0.596	15.14
901412CY	14	41/30	12	0.655	16.64
901603CY	16	26/30	3	0.357	9.07
901604CY	16	26/30	4	0.384	9.75
901605CY	16	26/30	5	0.414	10.52
901607CY	16	26/30	7	0.445	11.30
901609CY	16	26/30	9	0.545	13.84
901612CY	16	26/30	12	0.597	15.16
901803CY	18	19/30	3	0.335	8.51
901804CY	18	19/30	4	0.360	9.14
901805CY	18	19/30	5	0.387	9.83
901807CY	18	19/30	7	0.415	10.54
901809CY	18	19/30	9	0.472	11.99
901812CY	18	19/30	12	0.555	14.10
902003CY	20	10/30	3	0.297	7.54
902004CY	20	10/30	4	0.318	8.08
902005CY	20	10/30	5	0.341	8.66
902007CY	20	10/30	7	0.365	9.27
902009CY	20	10/30	9	0.435	11.05
902012CY	20	10/30	12	0.475	12.06

Interested in learning more?
Visit alphawire.com/Xtra-Guard-TPE or call 1-800-52-ALPHA

The cables you trust. The service you deserve.

Global Headquarters
711 Lidgerwood Avenue
Elizabeth, NJ 07202 | USA
Toll Free: 1-800-52 ALPHA
Tel: 1-908-925-8000
Fax: 1-908-925-5411
E-mail: info@alphawire.com

Europe
Saxon House
1 Downside | Sunbury-on-Thames
Middlesex | United Kingdom | TW16 6RT
Tel: +44 (0) 1 932 772 422
E-mail: europe@alphawire.com

Asia Pacific
Baohua Mansion | Room 1308
No 1211 Changde Road
Shanghai | China | 200060
Tel: +86-21-6259 3510 / 6259 3957
E-mail: apac@alphawire.com

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