



TREX-ONICS®

Family of Electronic
& Electrical Cable



TPC WIRE & CABLE CORP.
EXPECT HIGH PERFORMANCE®

TREX-ONICS® JACKET CHEMICAL RESISTANCE

ACIDS

Acetic, 5%	Good
Formic, 20%	Variable
Hydrochloric, 10%	Fair
Oleic.....	Fair-Good
Sulfuric, 20%	Fair

ALCOHOLS

Ethanol.....	Variable
Isopropanol.....	Fair-Poor
Isopropanol, 50%	Fair-Poor
Methanol.....	Variable

ALKALI

Sodium Hydroxide, 20%.....	Fair
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ORGANICS

Acetone	Poor
ASTM Fuel A.....	Good
ASTM Fuel B.....	Fair
ASTM Fuel C.....	Fair-Variable
ASTM Fuel #1	Good
ASTM Fuel #2	Good
ASTM Fuel #3	Good-Fair

ORGANICS (continued)

Benzene.....	Variable
Brake Fluid Type A.....	Variable
Brake Fluid (H.D.).....	Fair-Good
Butane	Good
Carbon Tetrachloride.....	Variable
Cyclohexanone.....	NR
Dimethyl Formamid.....	NR
Dimethyl Sulfoxide	NR
I, 4-Dioxane	NR
Diocetyl Phthalate.....	Fair
Ethyl Ether.....	Fair-Good
Ethylene Glycol.....	Good
Ethylene Glycol 50% Water	Good
Gasoline, 100 Octane.....	Fair
Hexane.....	Fair-Good
Kerosene	Good
Methylene Chloride.....	Variable
Methyl Ethyl Keytone	Variable
N-Methyl-2-Pyrrolidene	NR
Oil, Texas Crude	Fair-Good
Oil, Detergent 20W	Good
Oil, Non-Detergent 20W	Good
Oil, Skydrol Type B.....	NR

ORGANICS (continued)

Oil, Skydrol Type 500A	Fair-Variable
Oil, Skydrol Type 500B.....	Fair-Variable
Oil, Transmission Type A	Good
Perchloroethylene	Variable
Pyridine.....	NR
Tetrahydrofuran	NR
Toluene	Variable
Trichloroethylene.....	Variable
Turpentine.....	Good

MISCELLANEOUS

Chlorox (5%)	Good
Calcium Chloride Saturated Solution.....	Good
FREON-113	Variable
FREON-11B.....	Variable
FREON-112	Good
Hydrogen Disulfide (5%)	Excellent
Sodium Chloride Saturated Solution	Good
Synthetic Perspiration.....	Good
Tide (1%)	Good
Water	Good

CODING

- EXCELLENT** — Little or no change in constant exposure — application is recommended
- GOOD** — Only slight loss in properties on constant exposure — application is recommended
- FAIR** — Some swelling could occur in constant exposure but recommended for infrequent contact
- VARIABLE** — In constant exposure not recommended. Infrequent contact recommended
- NR** — Not recommended, product could deteriorate in moderate exposure

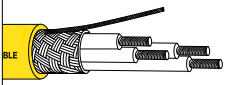
POWER CABLES

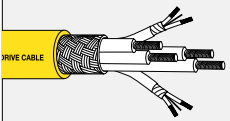

Trex-Onics® Reduced Diameter Power Cable is designed for continuous flexing applications and tested to over 6.5 million cycles without failure. Extra fine conductor stranding and unique tubed construction allow conductors to move freely and not bind. Security yellow TPE jacket is the first line of defense against tearing, abrasion, impact, oil, ozone and most chemicals.

PRODUCT NAME	RATINGS
 Reduced Diameter Power Cable	<ul style="list-style-type: none"> UL Recognized / CSA FT-1 Flame Rating Continuous Flex Applications <ul style="list-style-type: none"> RoHS Compliant 600 V Max Conductor Temp. 90°C

VFD / SERVO MOTOR CABLES


Trex-Onics® Variable Frequency Drive Cables (VFD) are specifically designed for VFD motor applications. This specially compounded Trex-Onics TPE jacket provides excellent protection from oil, ozone, abrasion, chemicals, ozone, and UV exposure. The composite insulation system is engineered to withstand corona discharge build-up, which is common in VFD applications.

PRODUCT NAME	RATINGS
 VFD Shielded Power Cable	<ul style="list-style-type: none"> UL Listed CE Oil Resistant Sunlight Resistant CSA – 1,000 V RoHS Compliant <ul style="list-style-type: none"> CSA Type TC-ER – 600 V FT-4 Flame Rating Max Conductor Temp. 90°C Corona Resistant to 2,000 V

VFD / SERVO MOTOR CABLES <i>(continued)</i>		
PRODUCT NAME		RATINGS
	VFD Shielded Power Cable with Brake & Signal Pairs	<ul style="list-style-type: none"> • UL Listed • CE • CSA – 1,000 V • Oil Resistant • Sunlight Resistant • CSA • Type TC-ER – 600 V • Max Conductor Temp. 90°C • Corona Resistant to 2,000 V • RoHS Compliant
	Servo Motor Cable	<ul style="list-style-type: none"> • UL Recognized • FT-1 Flame Rating • 600 V • Low Capacitance • Operating Temp. -40°C to 80°C • Continuous Flex Applications

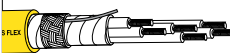


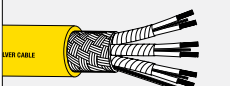
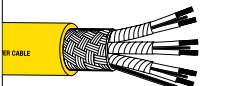
REELING CABLES

Our reeling cable is specially designed with aramid-reinforced, dual-pass jacketing. The aramid braid is rated at 1,800 lbs tensile strength for heavy-duty applications. Ideal for reeling, cable carriers and tray cable exposed run installations.

PRODUCT NAME		RATINGS
	Reduced Diameter Extra Heavy-Duty Reeling Cable	<ul style="list-style-type: none"> • UL Recognized • FT-1 Flame Rating • VW-1 Flame Rating • AWM • cUL • Type TC-ER • 600 V • Operating Temp. Range -40°C to 90°C


CONTROL/INSTRUMENTATION



TPC Wire & Cable Corp. offers a full selection of control and instrumentation cables for use in applications such as automation systems, production lines and measurement systems. Our control cables have also been used for encoder/resolvers, flow meters, pressure meters, instrumentation, programmable limit switches, programmable controllers, load cell monitors and much more.

PRODUCT NAME		RATINGS
	Overall Shielded Continuous Flex Multi-Conductor Cable	<ul style="list-style-type: none"> • UL Recognized / CSA • 600 V • MSHA Approved • Continuous Flex Applications • RoHS Compliant • FT-1 Flame Rating • VW-1 Flame Rating • Operating Temp. Range -40°C to 105°C
	Multi-Pair Control Cable	<ul style="list-style-type: none"> • UL Recognized • CSA • 600 V • FT-1 Flame Rating • RoHS Compliant • Max Conductor Temp. 105°C – UL • Max Conductor Temp. 105°C – CSA • VW-1 Flame Rating
	Individually Shielded Multi-Pair Control Cable	<ul style="list-style-type: none"> • UL Recognized • CSA • RoHS Compliant • 600 V • FT-1 Flame Rating • MSHA Approved (24 AWG-18 AWG) • Max Conductor Temp 105°C – UL • Cold Temperature Rating -40°C • Max Conductor Temp 105°C – CSA • VW-1 Flame Rating
	Individually Shielded Resolver and Intrinsically Safe Cable	<ul style="list-style-type: none"> • UL Recognized • CSA • RoHS Compliant • 600 V • FT-1 Flame Rating • MSHA Approved (24 AWG-18 AWG) • Max Conductor Temp. 105°C – UL • Cold Temperature Rating -40°C • Max Conductor Temp. 105°C – CSA • VW-1 Flame Rating
	Low Capacitance Cable	<ul style="list-style-type: none"> • UL Recognized • 13pF/ft • RoHS Compliant • VW-1 Flame Rating • EIA RS-232/422/485 • Max Conductor Temp. 80°C – UL • Max Conductor Temp. 80°C • 300 V

BUS CABLES – ETHERNET



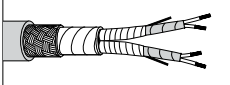
Connecting network devices such as routers, modems, and adapters, Ethernet cables are the lifeblood of your data systems. Data constantly flows through these channels and your business cannot stay at full potential without these cables being fully operational. We offer high-quality CAT6A Ethernet cables and CAT7A Ethernet cables designed to work hard and last longer. **SEE OUR CHEM-GARD® 200°C CAT 6 CABLE.**

PRODUCT NAME		RATINGS
	Industrial Ethernet CAT7A Cable	<ul style="list-style-type: none"> • ANSI TIA/EIA 568-B • IEC 61156-6 • Abrasion Resistant • ISO/IEC 11801 • 600 V Installation • IEC 60332-1 • Frequency Range up to 1000 MHz • Operating Temp. Range -40°C to 70°C • RoHS Compliant 2002/95/EC • Halogen-Free Flame Retardant

BUS CABLES – ETHERNET <i>(continued)</i>			
PRODUCT NAME		RATINGS	
	Industrial Ethernet CAT6A Cable	<ul style="list-style-type: none"> • IEC 60332-1 • ISO/IEC 11801 • 300 V • Halogen-Free 	<ul style="list-style-type: none"> • IEC 61156 • RoHS Compliant • Frequency Range up to 500 MHz
	Industrial Ethernet CAT5E / 2-Pair Cable	<ul style="list-style-type: none"> • UL Recognized • AWM 20233 • 300 V 	<ul style="list-style-type: none"> • TIA/EIA 568-C-2* • RoHS Compliant • Max Conductor Temp. 80°C

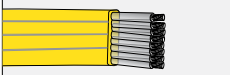
BUS CABLES – NETWORK

The primary operation of networking cables is to connect two or more devices to each other to function as one system. When working in an industrial environment, these connections are crucial to a fully functioning jobsite. We offer a wide variety of networking cables from Profibus® cable to CAT7A network cable to help you keep your business running smoothly. **SEE OUR CHEM-GARD® 200°C CAT 6 CABLE.**

PRODUCT NAME		RATINGS	
	ControlNet RG-6U Quad-Shield Coaxial Cable	<ul style="list-style-type: none"> • UL Recognized • ODVA Conformity 	<ul style="list-style-type: none"> • FT-2 Flame Rating • RoHS Compliant
	Profibus Festoon/Trailing Cable	<ul style="list-style-type: none"> • UL Recognized • 30 V 	<ul style="list-style-type: none"> • RoHS Compliant • Operating Temp. Range -40°C to 80°C
	DeviceNet™ Flex-Net™ Cables	<ul style="list-style-type: none"> • UL Recognized / CSA • ODVA Conformity • 300 V • RoHS Compliant 	<ul style="list-style-type: none"> • Type PLTC • FT-4 Flame Rating • CE (thin only) • Max Conductor Temp. 80°C



FLAT FESTOON CABLES

The Trex-Onics® Flat Festoon Cable's polyurethane TPE jacket offers defense against cutting, abrasion, oil and chemicals; and finely stranded tinned conductors ensure a high degree of flexibility and an extended flex life. The flat design of the cable allows it to lay flat in a crane or hoist application and avoid problems that may arise when using other types of cable.

PRODUCT NAME		RATINGS	
	Flat Festoon Cable	<ul style="list-style-type: none"> • 600 V • RoHS Compliant 	<ul style="list-style-type: none"> • Max Conductor Temp. 90°C

RETRACTILE COIL CORDS

Trex-Onics® Retractable Coil Cords provide the perfect blend of flexibility and industrial strength to meet your flexing power needs. The heavy-duty polyurethane jacket provides excellent protection from industrial and environmental abuse by resisting tearing, abrasion, oils, ozone, UV rays, and most chemicals. The conductors are insulated with a material that has a low coefficient of friction, which allows them to flex within the cable and provide one of the most chemically resistant compounds on the market.

PRODUCT NAME		RATINGS	
	Sootblower Cable	<ul style="list-style-type: none"> • 600 Volt • IP68 Rated 	<ul style="list-style-type: none"> • IP67 Rated • Max Conductor Temp. 105°C
	High-Flex Ultra-Coil Retractable	<ul style="list-style-type: none"> • UL Recognized • cUL • RoHS Compliant • 600V 	<ul style="list-style-type: none"> • Max Conductor Temp 90°C — UL • Oil Resistant • Sunlight Resistant • Operating Temp. Range -40°C to 90°C

*Telecommunications Industry Association / Electronic Industries Alliance



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