



SUPER-TREX[®]

Power, Welding & Control Cables




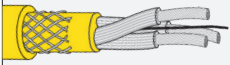

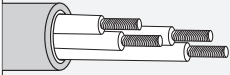
TPC WIRE & CABLE CORP.
EXPECT HIGH PERFORMANCE[®]

The Total Wire & Cable Solution

TPC Wire & Cable Corp. is a leading supplier of wire, cable and connectors used in harsh industrial environments. TPC's products are designed and engineered to withstand harsh conditions including abrasion, chemicals, constant flexing and extreme temperatures. TPC serves a variety of markets including the steel, utility, mining, automotive, food and beverage, government, oil and gas, transportation and wood, pulp and paper markets. The company's long-lasting, dependable wire and cable products solve the most difficult application problems in the harshest environments resulting in lower overall costs and increased production time.

PORTABLE CORDS










Portable cords endure abuse on a daily basis. Whether you use them for heavy-duty tools, industrial heaters or hospital equipment, they can suffer from heat, twisting, abrasion and so much more. TPC Wire & Cable Corp.'s portable cords (Ultra-Gard™ and Triple-Gard™) typically last 6-9 times longer than commercial portable cord cables and offer you a variety of benefits.

PRODUCT NAME		RATINGS	
	Ultra-Gard™ Type TC-ER Rated Portable Cord	<ul style="list-style-type: none"> • UL Listed • CSA • Type SOOW • 600 V • Type TC-ER • RoHS Compliant 	<ul style="list-style-type: none"> • Suitable for Class I, II, III, Division 1 & 2* • Max Conductor Temp 90°C • MSHA Approved • FT-4 Flame Rating • Extra Hard Usage • UV Resistant
	Triple-Gard™ Yellow Portable Cord	<ul style="list-style-type: none"> • UL Listed • Type SOOW • Suitable for Class I, II, III Div. 1 & 2* • CSA • Triple Layered Construction • Max Conductor Temp 105°C 	<ul style="list-style-type: none"> • FT-1 Flame Rating • 600 V • UV Resistant • RoHS Compliant • Extra Hard Usage
	Triple-Gard™ Black Portable Cord	<ul style="list-style-type: none"> • UL Listed • Type SOOW • Suitable for Class I, II, III, Div. 1 & 2* • CSA • RoHS Compliant • Max Conductor Temp 105°C 	<ul style="list-style-type: none"> • FT-1 Flame Rating • 600 V • MSHA Approved • UV Resistant • Weather Resistant • Extra Hard Usage
	Extreme Temperature Cable	<ul style="list-style-type: none"> • UL Recognized • cUL • RoHS Compliant • Max Conductor Temp 105°C 	<ul style="list-style-type: none"> • FT-1 Flame Rating • 1,000 V • UV Resistant • Cold temp rating -70°C

*When installed in accordance with NEC guidelines sections, 501.140, 502.140, 503.140.

POWER CABLES

Super-Trex® portable power cables are designed with high-quality compounds to provide excellent service and long-term reliability against industrial and environmental abuse.

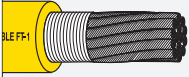
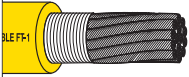
PRODUCT NAME		RATINGS	
	Type W Portable Power & Automation Cable	<ul style="list-style-type: none"> • UL Listed • cUL Listed • ICEA S-75-381 • All Weather Usage • IEEE 1202 Flame Rating • Max Conductor Temp 90°C • Cold temp rating -40°C 	<ul style="list-style-type: none"> • Type W – 2,000 V • FT-5 Flame Rating • Suitable for Class I, II, III Div. 1 & 2* • UV Resistant • MSHA Approved • Extra Hard Usage
	Type W Portable Power & Automation Cable	<ul style="list-style-type: none"> • UL Listed • Max Conductor Temp 90°C • Cold Temp Rating -40°C • UV Resistant • MSHA Approved 	<ul style="list-style-type: none"> • Type W – 2,000 V • Extra Hard Usage • Suitable for Class I, II, III, Div. 1 & 2* • ICEA S-75-381
	4 Conductor Aramid Reinforced Portable Power Reeling Cable	<ul style="list-style-type: none"> • UL Listed • Type W • FT-5 Flame Rating • MSHA Approved • Max Conductor Temp 90°C 	<ul style="list-style-type: none"> • 2,000 V • CSA • Suitable for Class I, II, III, Div. 1 & 2* • Extra Hard Usage
	4/0 Type TC Power Cable	<ul style="list-style-type: none"> • UL Listed • Suitable for Class I, II, Division 2* • CSA • Max Conductor Temp 90°C 	<ul style="list-style-type: none"> • Type TC – 600 V • FT-4 Flame Rating • UV Resistant • RoHS Compliant
	Type W – RHH/RHW-2 Single Conductor Power Cable	<ul style="list-style-type: none"> • UL Listed • RoHS Compliant • Type RHH/RHW-2 – 600 V • Max Conductor Temp 90°C • -40°C Cold Bend Test 	<ul style="list-style-type: none"> • Type W – 2,000 V • Extra Hard Usage • Suitable for Class I, II, III, Div. 1 & 2* • UV Resistant
	Single Conductor Power Cable	<ul style="list-style-type: none"> • UL Listed • Type RHH/RHW-2 • IEEE 1202 Flame Rating • Max Conductor Temp 90°C • Sunlight Resistant • RoHS Compliant 	<ul style="list-style-type: none"> • VW-1 Flame Rating • 2,000 V • FT-4 Flame Rating • For CT Use • Meets Smoke Release Test – UL 1685 • -40°C Cold Bend Test
	Type MV-105 Cable	<ul style="list-style-type: none"> • Type MV-105, per UL Std. 1072 • Sunlight Resistant • 5kV to 15kV Voltage Range, 133% Insulation Level • -40°C Cold Bend Test 	<ul style="list-style-type: none"> • Oil Resistant I/II • Max Conductor Temp 105°C • FT4/IEEE 1202 Flame Rating • Direct Burial** • For CT use, cond. size 1/0 AWG & larger
	Type SH Single Conductor Power Cable	<ul style="list-style-type: none"> • ASTM B-33 • RoHS Compliant • FT-4 Flame Rating 	<ul style="list-style-type: none"> • IEEE - 383 Flame Rating • ICEA S-75-381/NEMA WC-58 • Max Conductor Temp 90°C
	Unshielded Jumper Cable	<ul style="list-style-type: none"> • Max Conductor Temp 90°C 	<ul style="list-style-type: none"> • 15,000 Volts

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**When installed in accordance to 2014 NEC Article 300.50

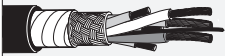
WELDING CABLES

Super-Trex® products are specifically designed to withstand high heat and provide excellent protection in harsh applications. These high quality welding cables are designed with our proprietary Super-Trex TSE jacket to protect the conductors from chemicals, abrasion, oils, impact, ozone, tearing, flame and heat. The insulation system resists oils, coolants, acids and chemicals. Extra-Flex™ welding cables are also available to meet the most demanding needs for flexibility and superior abrasion resistance.

PRODUCT NAME		RATINGS	
	600 Volt Welding Cable	<ul style="list-style-type: none"> • UL Listed • CSA • UV Resistant • FT-1 Flame Rating • RoHS Compliant 	<ul style="list-style-type: none"> • 600 V • Max Conductor Temp 90°C • Type SC • MSHA Approved (2, 1/0, 2/0, 3/0, 4/0 Only)
	DC Welding Cable	<ul style="list-style-type: none"> • CSA • FT-1 Flame Rating • UV Resistant 	<ul style="list-style-type: none"> • RoHS Compliant • Max Conductor Temp 90°C • 90 Volts Max



VFD / SERVO MOTOR CABLES

Super-Trex® VFD Cables are built to withstand the harsh electrical environment typically generated in VFD systems. Corona protection up to 2000 volts, three power/three symmetrical ground wires, and a braid/foil shield system contribute to excellent electrical characteristics designed specifically for VFD systems. A heavy-duty jacket provides superior protection against abrasion, oils, ozone, sunlight, and all-weather flexibility.

PRODUCT NAME		RATINGS	
	VFD Shielded Power Cable	<ul style="list-style-type: none"> • UL Listed • cUL • FT-4 Flame Rating • 600V TC-ER / 1000 V Type R90 	<ul style="list-style-type: none"> • Type TC-ER • Corona Resistant to 2,000 V • Max Conductor Temp 90°C

REELING CABLES

Super-Trex® Reeling Cables are designed with high quality compounds to provide excellent service and long-term reliability. Today's demanding environments require quality cord and cable that can keep your equipment up and running. Super-Trex® products are designed for impact, vibration, abrasion, pulling, flexing, oil, chemicals, extreme heat and cold.

PRODUCT NAME		RATINGS	
	Multi-Conductor P&R Cable	<ul style="list-style-type: none"> • UL Listed • RoHS Compliant • Type TC – 600 V • CSA • UV Resistant • MSHA Approved (16 AWG Only) 	<ul style="list-style-type: none"> • Type WTTC – 1,000 V • FT-1 Flame Rating • Max Conductor Temp 90°C Dry • Max Conductor Temp 75°C Wet • Suitable for Class I, II, Div. 2*
	Heavy-Duty High Flex Crane Cable	<ul style="list-style-type: none"> • 600 V • Extra Heavy-Duty • All Weather Usage 	<ul style="list-style-type: none"> • Aramid Reinforced • Max Conductor Temp 90°C • Cold temp rating -40°C

*When installed in accordance with NEC guidelines sections, 501.140, 502.140, 503.140.

SUPER-TREX® CHEMICAL RESISTANCE (CHART 1)

The chart below shows typical fluid resistance properties of the Super-Trex® Jacket and Live-Flex™ inner conductor insulation material used in the Super-Trex Type SOO Ultra-Gard™ and Type SOO Triple-Gard™ Portable Cord.

CHEMICAL	SUPER-TREX® JAKET RATING	LIVE-FLEX™ INSULATION RATING
Acetylene	A	B
Aluminum Chloride Solutions	A	A
Aluminum Sulfate Solutions	A	A (250°)
Ammonium Chloride Solutions	A	A
Ammonium Sulfate Solutions	A	A (200°F)
Amyl Alcohol	A	A (200°F)
Aniline	A	B
ASTM Oil #1	A	A
ASTM Oil #3	A	B (158°F)
ASTM Reference Fuel A	A	A
Asphalt	B	B
Barium Hydroxide Solutions	A	A (200°F)
Borax Solutions	B	A (200°F)
Boric Acid Solutions	A	A (200°F)
Butane	A	A
Calcium Bisulfite Solutions	A	A (200°F)
Calcium Chloride Solutions	A	A
Calcium Hydroxide Solutions	A	A (200°F)
Carbon Dioxide	A	A (200°F)
Castor Oil	A	A (158°F)
Citric Acid Solutions	B	A
Cottonseed Oil	A	A
Ethyl Alcohol	A	A (200°F)
Ethylene Glycol	A	A (200°F)
Ferric Chloride Solutions	A	A (200°F)
Floursilicic Acid	B	A (200°F)
Formic Acid	B	A
FREON-12	A	A (200°F)
FREON-22	A	A (200°F)
Gasoline	A	B
Glue	A	A (200°F)
Glycerin	A	A (200°F)

CHEMICAL	SUPER-TREX® JAKET RATING	LIVE-FLEX™ INSULATION RATING
n-Hexane	A	A
Hydrocyanic Acid	B	A
Hydrogen	A	A
Hydrogen Peroxide, 90%	A	A
Isopropyl Ether	A	B
Kerosene	A	B
Linseed Oil	A	A
Lubricating Oils	A	B (158°F)
Magnesium Chloride Solutions	A	A (220°F)
Magnesium Hydroxide Solutions	A	A (220°F)
Mercuric Chloride Solutions	A	A
Mercury	A	A
Methyl Alcohol	A	A
Methylethyl Keytone	C	D
Mineral Oil	A	A
Oleic Acid	A	B
Palmitic Acid	A	B
Phosphoric Acid, 20%	A	A (200°F)
Phosphoric Acid, 60%	A	A (200°F)
Phosphoric Acid, 70%	A	A (200°F)
Phosphoric Acid, 85%	A	A (200°F)
Picric Acid, 70%	A	A
Soap Solutions	A	A (200°F)
Sodium Chloride Solutions	A	A
Soybean Oil	A	A
Stannic Chloride	A	B
Stearic Acid	A	B (158°F)
Sulfuric Acid, up to 5%	A	A
Sulfuric Acid, up to 5-10%	A	A
Toluene	D	D
Triethanol Amine	A	A (158°F)
Tung Oil	A	A

SUPER-TREX® CHEMICAL AND SOLVENT RESISTANCE (CHART 2)

Super-Trex® Cord and Cable is jacketed with TSE, a specially compounded thermoset elastomer which has excellent resistance to most chemicals and solvents.

Resistance to solvents and chemicals is tested by immersing cable specimens in a solution for 28 days at room temperature.

Measurements of cable diameter are made before and after immersion. Resistance is rated as follows, depending upon the % of change in cable diameter:

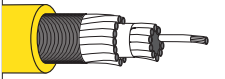

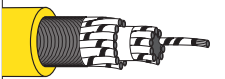
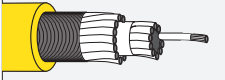
(E) Excellent – less than 10% **(G) Good – 10% to 30%**
(F) Fair – 30% to 50% **(P) Poor – More than 50%**

Acetic Acid (60%)	G	Chromic Acid.....	G
Ammonium Hydroxide (60%) ...	E	Corn Oil	E
ASTM Fuel A	E	Distilled Water.....	E
ASTM Fuel B	G	Floor Polish.....	E
ASTM No. 1 Oil	E	Formaldehyde (40%)	E
ASTM No. 2 Oil	E	Gasoline.....	G
ASTM No. 3 Oil	E	Glycerine.....	E
Beef Blood.....	E	Hydrocarbon Hydraulic Fluid ...	E
Beer	E	Hydrochloric Acid (60%).....	E
Boric Acid	E	Hydrogen Sulfide	E
Calcium Chloride.....	E	JP-4 (Jet Fuel).....	G
Chlorinated Salt Brine.....	E	Kerosene	E

Linseed Oil.....	E	Silicone Oil	E
Lubricating Oil (3-in-1)	E	Sodium Bicarbonate.....	E
Methyl Butyl Ketone	P	Sodium Chloride.....	E
Milk	E	Sodium Cyanide (60%).....	G
N-Butyl Alcohol.....	E	Sodium Hydroxide (60%)	G
Perchloroethylene.....	F	Sodium Nitrate.....	E
Phosphate Ester Hydraulic (Skydrol 500B).....	P	Steel Mill Rolling Oil.....	E
Phosphoric Acid (85%).....	E	Sulphuric Acid (10%).....	E
Potassium Citrate	E	Toluene.....	P
Potassium Hydroxide (20%).....	E	Turpentine.....	G
Rochelle Salts	E		

CONTROL/INSTRUMENTATION CABLES

TPC 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	
	Reduced Diameter Control Cable (12 AWG)	<ul style="list-style-type: none"> • UL Listed • CSA • 600 V • Max Conductor Temp 90°C 	<ul style="list-style-type: none"> • FT-1 Flame Rating • Type TC • RoHS Compliant • Suitable for Class I, II, Div. 2*
	Reduced Diameter Control Cable (16 AWG)	<ul style="list-style-type: none"> • UL Listed • CE • Max Conductor Temp 90°C • Type WTTC – 1,000 V 	<ul style="list-style-type: none"> • FT-4 Flame Rating • RoHS Compliant • Type TC-ER – 600 V • Suitable for Class I, II, Div. 2*
	Reduced Diameter Control Cable (18 AWG)	<ul style="list-style-type: none"> • UL Listed • CE • Max Conductor Temp 90°C • Type WTTC – 1,000 V 	<ul style="list-style-type: none"> • FT-4 Flame Rating • RoHS Compliant • Type TC-ER – 600 V • Suitable for Class I, II, Div. 2*
	Reduced Diameter Control Cable (20 AWG)	<ul style="list-style-type: none"> • UL Recognized in the U.S. & Canada • CSA • 600 V • RoHS Compliant 	<ul style="list-style-type: none"> • FT-1 Flame Rating • CE • Max Conductor Temp. 90°C

**When installed in accordance with NEC guidelines sections, 501.140, 502.140, 503.140.*



LET TPC DO THE WORK.

Get your cables **connectorized** & ready to install.



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