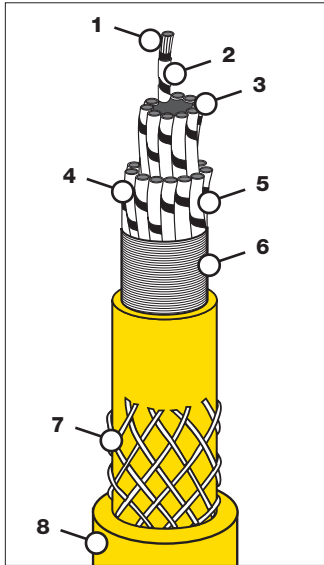


# Super-Trex® Multi-Conductor P&R Cable

- UL Listed
- RoHS Compliant
- FT-1 Flame Rating
- Max Conductor Temperature 90°C Dry
- Max Conductor Temperature 75°C Wet
- CSA
- UV Resistant
- Type TC – 600 V
- MSHA Approved
- Suitable for Class I, II, Division 2\*



## FEATURES & BENEFITS

**1. BUNCH STRANDED TINNED SOFT DRAWN COPPER** – Longer flex life in reeling, flexing and twisting applications. Easier to solder.

**2. LIVE-FLEX XLPE CONDUCTOR INSULATION** – Increases flexibility and has high dielectric, tensile and mechanical properties.

**3. CONDUCTORS – LOWER COEFFICIENT OF FRICTION** – Longer life in reeling and flexing applications. Fewer spares needed.

**4. NO-WICK RAYON-REINFORCED SYNTHETIC FILLER** – Adds tensile strength, improves flexibility and won't wick up liquids. Acts like a shock absorber to reduce damage from impact.

**5. NYLON ARMORED INNER CONDUCTORS ARE CODED WITH ALPHA NUMERIC**

**IDENTIFICATION** – Provides fast identification of conductors. Easy to read and simplifies installation.

**6. POLYESTER TAPE AROUND INNER COMPONENTS** – Provides easy movement of the conductor bundle for longer flex life.

**7. NYLON REINFORCING BRAID EMBEDDED BETWEEN TWO-LAYER JACKET** – Provides added strength. Improves cable resistance to impact, abrasion, twisting and pulling.

**8. SPECIALLY COMPOUNDED, SECURITY YELLOW, SUPER-TREX® TSE JACKET** – A two layer reinforced jacket provides superior first-line defense against industrial and environmental abuse. Resists tearing, abrasion, impact, oil, ozone and most chemicals. Flame and heat resistant. Extreme all-weather flexibility.

## ORDERING INFORMATION (MINIMUM PURCHASE MAY BE REQUIRED IF PRODUCT NOT STOCKED)

	PART NO.	CABLE SIZE AWG/COND	CONDUCTOR STRANDING	AMPACITY <sup>1</sup>	JACKET THICKNESS (IN)	NOMINAL O.D. (IN)	WT. (LBS) PER 1000'	MIN. BEND RADIUS (IN)
COLOR CODED CONDUCTORS	88820	16/6	65/34	14	0.115	0.540	210	4.32
	88822	16/8	65/34	12	0.115	0.605	247	4.84
	88823	16/10	65/34	9	0.115	0.680	287	5.44
	88824	16/12	65/34	9	0.135	0.695	326	5.56
	88825	16/16	65/34	9	0.135	0.745	372	5.96
	88826	16/20	65/34	9	0.135	0.805	450	6.44
	88827	16/24	65/34	8	0.135	0.885	497	7.08
	88828	16/33	65/34	7	0.155	0.980	708	7.84
	88829	16/36	65/34	7	0.155	1.01	722	8.08
ALPHA NUMERIC BLACK CONDUCTORS	88830	16/41	65/34	6	0.155	1.07	833	8.56
	88811	14/7	41/30	17	0.115	0.625	276	5.00
	88812	14/8	41/30	17	0.115	0.660	305	5.28
	88813	14/10	41/30	12	0.115	0.745	365	5.96
	88814	14/12	41/30	12	0.135	0.760	411	6.08
	88815	14/16	41/30	12	0.135	0.820	499	6.56
	88816	14/20	41/30	12	0.135	0.890	586	7.12
	88817	14/24	41/30	11	0.135	0.965	680	7.72
	88800	12/6	65/30	24	0.115	0.640	334	5.12
	88802	12/8	65/30	21	0.115	0.720	402	5.76
	88804	12/12	65/30	15	0.135	0.830	549	6.64
	88806	12/20	65/30	15	0.135	0.975	822	7.80
	88808	12/30	65/30	13	0.155	1.155	1157	9.24
	88832	10/6	105/30	32	0.115	0.760	439	6.08
	88834	10/8	105/30	28	0.115	0.860	554	6.88
	88836	10/12	105/30	20	0.135	0.990	768	7.92

NOTES: (1) Based on an ambient temperature of 30°C and conductor temperature of 90°C per NEC, Table 3.10.15(B)(16).  
\*When installed in accordance with NEC guidelines sections, 501.140, 502.140, 503.140.

Portable Cords  
Power Cables (600 Volt to 35 KV)  
Welding Cables  
VFD/Servo Motor Cables  
Reeling Cables  
Control Cables/Instrumentation  
Bus Cables  
Flat Reelton Cables  
Retractive Coil Cables  
Chemical & Temp. Resistant Cables  
High Temperature Cables  
Igniter Cables  
Thermocouple Extension Wires  
Engineered Custom Cables

# Super-Trex® Multi-Conductor P&R Cable (Continued)

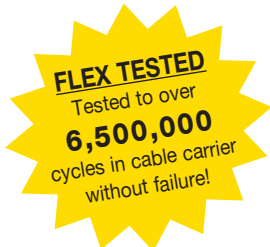
Super-Trex® Multi-Conductor P&R Cable exhibits a unique design for payout and retractile (P&R) applications featuring our Live-Flex insulation with a low coefficient of friction and a dual layered fiber reinforced jacket for added strength. No-Wick synthetic fillers provide added strength and reduced damage to impact. Security yellow TSE jacket provides superior resistance to abrasion, tearing, impact, oil and most industrial chemicals.

## APPLICATIONS

- Remote Control of Electrical Equipment
- Festoon Systems
- Cranes and Hoists
- Cable Carrier Systems
- Cable Reels
- Automatic Welders
- Broach Machines
- Retractable Reels
- Machine Tools
- Control Circuits
- Positioning Equipment
- Transfer Vehicles

## 16 AWG COLOR CODE

NO. OF CONDUCTORS	BASE COLOR	TRACER	SIDE ONE: NUMERIC	SIDE TWO: ALPHA-NUMERIC
1	BLACK	—	1	ONE
2	WHITE	—	2	TWO
3	RED	—	3	THREE
4	GREEN	—	4	FOUR
5	ORANGE	—	5	FIVE
6	BLUE	—	6	SIX
7	WHITE	BLACK	7	SEVEN
8	RED	BLACK	8	EIGHT
9	GREEN	BLACK	9	NINE
10	ORANGE	BLACK	10	TEN
11	BLUE	BLACK	11	ELEVEN
12	BLACK	WHITE	12	TWELVE
13	RED	WHITE	13	THIRTEEN
14	GREEN	WHITE	14	FOURTEEN
15	BLUE	WHITE	15	FIFTEEN
16	BLACK	RED	16	SIXTEEN
17	WHITE	RED	17	SEVENTEEN
18	ORANGE	RED	18	EIGHTEEN
19	BLUE	RED	19	NINETEEN
20	RED	GREEN	20	TWENTY
21	ORANGE	GREEN	21	TWENTY-ONE



Color code repeats after twenty-one conductors. Alpha-numeric identification is unique for all conductor counts one through thirty-six.

## SUPER-TREX® CHEMICAL AND SOLVENT RESISTANCE

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.

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

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%**  
**(F) Fair – 30% to 50%**

**(G) Good – 10% to 30%**  
**(P) Poor – More than 50%**

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	

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