

Multi-Conductor P&R Cable



- UL Type TC
- CSA Certified
- UV Resistant

- 16 AWG MSHA Approved
- Payout & Retractable (P&R) Construction

- 600 Volt
- 90°C Dry
- 75°C Wet

- FT-1
- RoHS Compliant

LIVE-FLEX™ XLPE CONDUCTOR INSULATION

Increases flexibility and has high dielectric, tensile and mechanical properties.

NO-WICK™ RAYON-REINFORCED SYNTHETIC FILLER

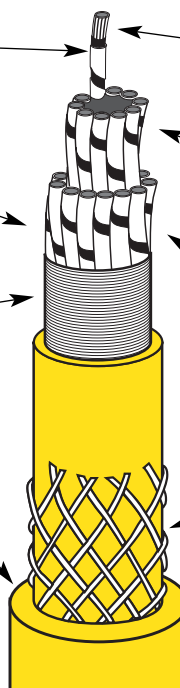
Adds tensile strength, improves flexibility and won't wick up liquids. Acts like a shock absorber to reduce damage from impact.

POLYESTER TAPE AROUND INNER COMPONENTS

Provides easy movement of the conductor bundle for longer flex life.

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.



BUNCH STRANDED TINNED SOFT DRAWN COPPER

Longer flex life in reeling, flexing and twisting applications. Easier to solder.

CONDUCTORS - LOWER COEFFICIENT OF FRICTION

Longer life in reeling and flexing applications. Fewer spares needed.

NYLON ARMORED INNER CONDUCTORS ARE CODED WITH ALPHA NUMERIC IDENTIFICATION

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

NYLON REINFORCING BRAID EMBEDDED BETWEEN TWO-LAYER JACKET

Provides added strength. Improves cable resistance to impact, abrasion, twisting and pulling.

ORDERING INFORMATION

PART NO.	CABLE SIZE AWG/COND.	CONDUCTOR STRANDING	AMPACITY	JACKET THICKNESS (IN.)	NOM. O.D. (IN.)	CABLE WT. (LBS.) per 1000'
COLOR CODED CONDUCTORS						
88820	16/6	65/34	14.4	.115	.555	168
88822	16/8	65/34	12.6	.115	.615	206
88823	16/10	65/34	9	.115	.690	255
88824	16/12	65/34	9	.135	.705	290
88825	16/16	65/34	9	.135	.750	353
88826	16/20	65/34	9	.135	.820	412
88827	16/24	65/34	8.1	.135	.885	484
88828	16/33	65/34	7.2	.155	1.030	657
88829	16/36	65/34	7.2	.155	1.050	693
88830	16/41	65/34	6.3	.155	1.090	734
88831	16/49	65/34	6.3	.155	1.170	849
ALPHA NUMERIC BLACK CONDUCTORS						
88811	14/7	41/30	17.5	.115	.625	240
88812	14/8	41/30	17.5	.115	.660	265
88813	14/10	41/30	12.5	.115	.750	324
88814	14/12	41/30	12.5	.135	.760	379
88815	14/16	41/30	12.5	.135	.820	467
88816	14/20	41/30	12.5	.135	.890	535
88817	14/24	41/30	11.3	.135	.965	630
88800	12/6	65/30	24	.115	.655	291
88802	12/8	65/30	21	.115	.735	358
88804	12/12	65/30	15	.135	.850	515
88806	12/20	65/30	15	.135	1.000	763
88808	12/30	65/30	13.5	.155	1.190	1119
88832	10/6	105/30	32	.115	.760	382
88834	10/8	105/30	28	.115	.860	484
88836	10/12	105/30	20	.135	.990	697

A P P L I C A T I O N S A N D S P E C I F I C A T I O N S

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

Recommended Minimum Bend Radius for Cable Applications

The Minimum Bend Radius for Dynamic Applications is 8 times the OD of the cable. Minimum Bend Radius for Static Applications is 6 times the OD of the cable.

PART NO.	NOMINAL O.D. (IN.)	MINIMUM BEND RADIUS/DYNAMIC APPLICATIONS (IN.)
88820	.555	4.44
88822	.615	4.92
88823	.690	5.52
88824	.705	5.64
88825	.750	6.00
88826	.820	6.56
88827	.885	7.08
88828	1.030	8.24
88829	1.050	8.24
88830	1.090	8.72
88831	1.170	9.36
88811	.625	5.00
88812	.660	5.28
88813	.750	6.00
88814	.760	6.08
88815	.820	6.56
88816	.890	7.12
88817	.965	7.72
88800	.655	5.24
88802	.735	5.88
88804	.850	6.80
88806	1.000	8.00
88808	1.190	9.52
88832	.760	6.08
88834	.860	6.88
88836	.990	7.92

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 FluidE
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

K-1/METHOD 1 WITH ALPHA NUMERIC IDENTIFICATION				
NO. OF COND.	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.

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	

Super-Trex®