

16 AWG Reduced Diameter Control Cable



• UL Listed
• FT-4

• CSA Certified
• TC Rated – Exposed Run

• 600 Volt
• 90°C

• RoHS Compliant

CONDUCTORS ARE CODED WITH ALPHA-NUMERIC IDENTIFICATION

Provides fast identification of conductors. Easy to read and simplifies installation. **RED** conductors for AC applications and **BLUE** conductors for DC applications.

NYLON FILLERS

Low friction, non wicking fillers provide excellent flexibility.

SPECIALLY COMPOUNDED, SECURITY YELLOW, SUPER-TREX® TPE JACKET

Superior first-line defense against oil, ozone and UV exposure as well as most chemicals. Flame and heat resistant. Extreme all-weather flexibility.

BUNCH STRANDED TINNED SOFT DRAWN COPPER

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

HYTREL CONDUCTOR INSULATION

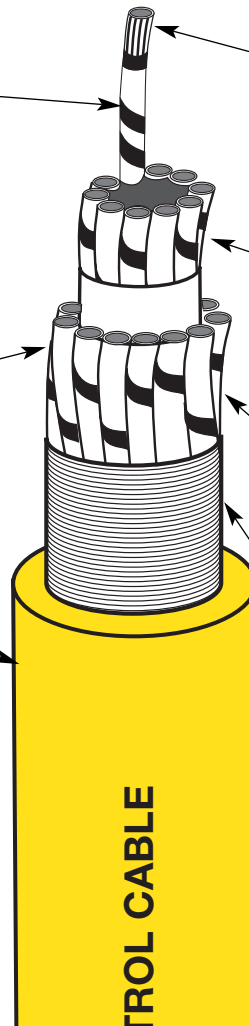
Oil resistant and has high dielectric, tensile and mechanical properties.

UNI-LAY CONSTRUCTION ALTERNATING BUNDLES

Superior performance in flexing and torsional applications.

HIGH FLEX TAPE SEPARATOR AROUND INNER COMPONENTS

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



20 MILLION Flex tested over 20,000,000 cycles in cat track testing without electrical failure

ORDERING INFORMATION

PART NO. (CONDUCTOR) STD.	PART NO. (CONDUCTOR)		CORD SIZE AWG/COND.	CONDUCTOR STRANDING	AMPACITY (1)	INSULATION THICKNESS (IN.)	JACKET THICKNESS (IN.)	NOMINAL O.D. (IN.)	WT. (LBS.) PER 1000'
	RED	BLUE							
—	88505R	88505B	16/5	65 x 34	14	.010	.060	.358	88
88512	88512R	88512B	16/12	65 x 34	12	.010	.070	.510	191
88516	—	—	16/16	65 x 34	12	.010	.070	.550	239
—	88519R	88519B	16/19	65 x 34	12	.010	.075	.596	281
88522	—	—	16/22	65 x 34	12	.010	.080	.650	327
88525	88525R	88525B	16/25	65 x 34	12	.010	.080	.700	376
88531	—	—	16/31	65 x 34	10	.010	.080	.725	425
—	88533R	88533B	16/33	65 x 34	10	.010	.080	.745	448
88541	—	—	16/41	65 x 34	10	.010	.100	.870	608
—	88547R	88547B	16/47	65 x 34	10	.010	.085	.890	653
88549	—	—	16/49	65 x 34	10	.010	.100	.900	714
88560	—	—	16/60	65 x 34	8	.010	.100	.975	783

NOTES: (1) Maximum allowable current per conductor when one conductor is utilized as ground or neutral. Ampacities are based on an ambient temperature of 30° C with a conductor temperature of 90° C.

TPC Wire & Cable 800-521-7935 In Canada 800-545-0122 In Mexico 001-800-290-5614

Super-Trex®

APPLICATIONS AND SPECIFICATIONS

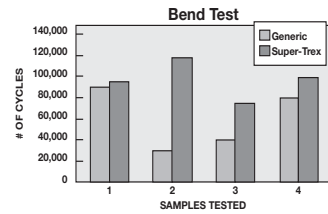
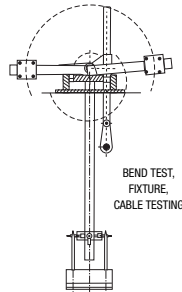
- ◆ Automatic Welders
- ◆ Festoon Systems
- ◆ Remote Control of Electrical Equipment
- ◆ Broach Machines
- ◆ Machine Tools
- ◆ Sensing Equipment
- ◆ Control Circuits
- ◆ Positioning Equipment
- ◆ Transfer Vehicles
- ◆ Cranes
- ◆ Power Track Systems

Not for Reeling or Forced Directional (Pulling) Applications.

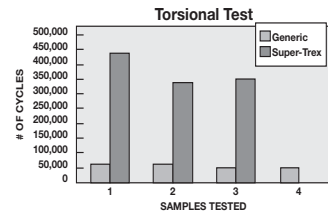
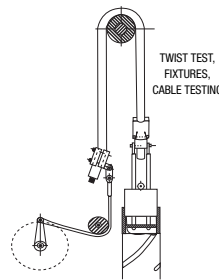
Recommended Minimum Bend Radius for Cable Applications

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.	SIZE AWG/ COND.	NOMINAL O.D. (IN.)	MINIMUM BEND RADIUS/DYNAMIC APPLICATIONS (IN.)
88505	16/5	.358	2.86
88512	16/12	.510	3.96
88516	16/16	.550	4.40
88519	16/19	.596	4.76
88522	16/22	.650	5.20
88525	16/25	.700	5.60
88531	16/31	.725	5.80
88533	16/33	.745	5.96
88541	16/41	.870	6.96
88547	16/47	.890	7.12
88549	16/49	.900	7.20
88560	16/60	.975	7.80



In the bend test, the New cable averaged 95,816 cycles vs. 61,754 for the Generic design, an improvement of 55%.



Note: All testing was performed on a 16/31 conductor configuration. In torsional testing the New cable averaged 370,000 cycles vs. 52,147 for the Generic design, an increase of 610%.

COLOR CODE FOR PRODUCT WITH RED CONDUCTOR

NO. OF COND.	BASE COLOR	FIRST TRACER	NUMERIC IDENTIFICATION
1	Green	Yellow	—
2	Red	—	1
3	White	Red	—
4	Red	—	3
5	Red	—	4

All remaining conductors will have RED base with BLACK numeric identification

- ◆ The first conductor in the outside layer is always GREEN with a YELLOW tracer.
- ◆ The third conductor in the outer layer is always WHITE with a RED tracer.
- ◆ All other conductors are RED with a BLACK number.

COLOR CODE FOR PRODUCT WITH BLUE CONDUCTOR

NO. OF COND.	BASE COLOR	FIRST TRACER	NUMERIC IDENTIFICATION
1	Green	Yellow	—
2	Blue	—	1
3	White	Blue	—
4	Blue	—	3
5	Blue	—	4

All remaining conductors will have BLUE base with WHITE numeric identification

- ◆ The first conductor in the outside layer is always GREEN with a YELLOW tracer.
- ◆ The third conductor in the outer layer is always WHITE with a BLUE tracer.
- ◆ All other conductors are BLUE with a WHITE number.

16 AWG REDUCED DIAMETER CONTROL CABLE

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 conductors one through sixty.

Super-Trex®