

20 AWG Reduced Diameter Control Cable



- UL Listed
- FT-1

- CSA Certified
- 600 Volt

- 90°C
- RoHS Compliant

HYTREL CONDUCTOR INSULATION

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

HIGH FLEX TAPE SEPARATOR AROUND INNER COMPONENTS

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

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.

CONDUCTORS ARE CODED WITH ALPHA-NUMERIC IDENTIFICATION

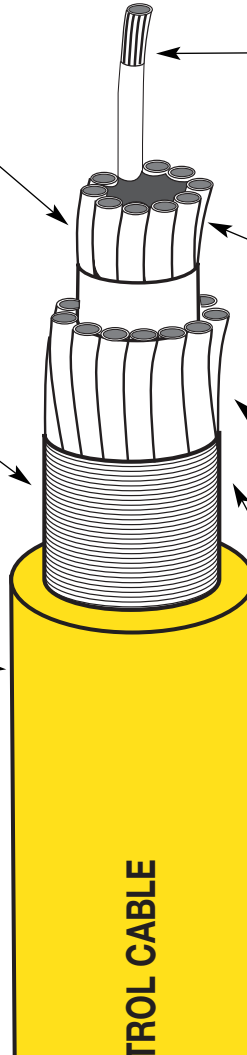
Provides fast identification of conductors. Easy to read and simplifies installation.

NYLON FILLERS

Low friction, non wicking fillers provide excellent flexibility.

UNI-LAY CONSTRUCTION ALTERNATING BUNDLES

Superior performance in flexing and torsional applications



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

ORDERING INFORMATION

PART NO.	CORD SIZE AWG/COND.	CONDUCTOR STRANDING	AMPACITY (1)	INSULATION THICKNESS (IN.)	JACKET THICKNESS (IN.)	NOMINAL O.D. (IN.)	WT. (LBS.) PER 1000'
88305	20/5	26 x 34	9.0	.010	.050	.275	52
88312	20/12	26 x 34	8.6	.010	.050	.362	94
88319	20/19	26 x 34	8.6	.010	.060	.453	148
88325	20/25	26 x 34	7.3	.010	.060	.507	175
88333	20/33	26 x 34	7.3	.010	.065	.541	226
88347	20/47	26 x 34	6.1	.010	.070	.663	335
88365	20/65	26 x 34	6.1	.010	.100	.820	515

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®

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

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

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.	CORD SIZE AWG/ COND.	NOMINAL OD. (IN.)	MINIMUM BEND RADIUS/DYNAMIC APPLICATIONS (IN.)
88305	20/5	.275	2.20
88312	20/12	.362	2.90
88319	20/19	.453	3.60
88325	20/25	.507	4.00
88333	20/33	.541	4.30
88347	20/47	.663	5.30
88365	20/65	.820	6.60

Chemical Resistance of *Super-Trex* Jacket in Oils and Fuels

Resistance to solvents and chemicals is tested by immersing cable specimens in a solution for 30 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% (F) Fair - 30% to 50%
 (G) Good - 10% to 30% (P) Poor - More than 50%

REAGENT	<i>Super-Trex</i>			
	TPE JACKET	HYPALON	PVC	NEOPRENE
Mobile Oil DTE 24	E	E	-	-
Mobile Oil DTE 26	E	E	-	-
Castor Oil	E	E	-	-
Simesol	E	P	-	-
Trimsol	E	G	-	-
ASTM Oil 1, 2 or 3	E	E	G	G
Transformer Oil	G	G	G	E
Diesel Fuel	G	P	P	G
Gasoline	G	G	P	G
Kerosene	E	G	E	G

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 Black Tracer. All other conductors are Black with a white number

NO. OF COND.	BASE COLOR	FIRST TRACER	NUMERIC IDENTIFICATION
1	Green	Yellow	—
2	Black	—	1
3	White	Black	—
4	Black	—	3
5	Black	—	4
6	Black	—	5
7	Black	—	6
8	Black	—	7
9	Black	—	8
10	Black	—	9
11	Black	—	10
12	Black	—	11
13	Black	—	12
14	Black	—	13
15	Black	—	14
16	Black	—	15
17	Black	—	16
18	Black	—	17
19	Black	—	18
20	Black	—	19
21	Black	—	20
22	Black	—	21
23	Black	—	22
24	Black	—	23
25	Black	—	24
26	Black	—	25
27	Black	—	26
28	Black	—	27
29	Black	—	28
30	Black	—	29
31	Black	—	30
32	Black	—	31
33	Black	—	32
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61	Black	—	60
62	Black	—	61
63	Black	—	62
64	Black	—	63
65	Black	—	64

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