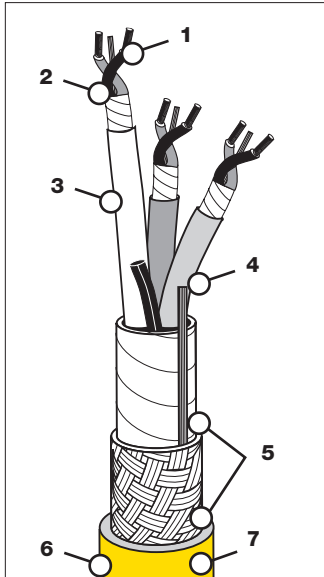


# Trex-Onics® Individually Shielded Multi-Pair Control Cable

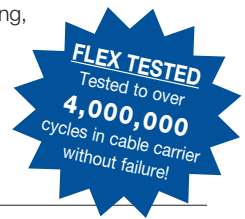
- UL Recognized in the U.S. and Canada
- CSA
- 600 V
- MIL-STD-810G Antimicrobial
- MSHA Approved (2+ pairs 24 AWG-18 AWG)
- RoHS Compliant
- FT-1 Flame Rating
- Max Conductor Temp 105°C
- Cold Temp Rating -40°C
- VW-1 Flame Rating

Trex-Onics® Individually Shielded Multi-Pair Control Cable is designed for industrial cable carriers, reeling, drop pendants and robotics. Individually twisted and shielded pairs have TPE insulation, TPE overcoat, overall foil shield and tinned copper braid. Shielding provides 100% protection from EM and RF interference. Heavy-duty polyurethane TPE jacket comes in TPC's classic security yellow. Tested to over 4 million cycles without failure.



## FEATURES & BENEFITS

- 1. FINELY STRANDED TINNED COPPER CONDUCTORS** — Improves flexibility and extends flex life.
- 2. TPE INSULATION ON INDIVIDUAL CONDUCTORS** — Offers superior resistance to oil, solvents and chemicals. Provides high dielectric capability, mechanical strength and cut resistance.
- 3. UNIQUE COLOR CODE FOR EACH PAIR** — TPEcoated pairs are color coded for ease of identification.
- 4. INDIVIDUALLY TWISTED SHIELDED PAIRS PROTECTED WITH TPE “OVERCOAT”** — Unique “overcoat” design helps maintain shield integrity on the pairs in flexing applications.
- 5. ULTRA-SHIELD CONSTRUCTION, A HEAVY-DUTY TINNED COPPER BRAID, ALUMINUM/POLYESTER FOIL SHIELD AND TINNED DRAIN WIRE** — 100% shielding provides protection from EM and RF interference. Finely stranded braid provides superior mechanical strength.
- 6. CABLE BONDED DESIGN** — Jacket adheres to braid to reduce conductor movement and elongation in flexing or reeling applications.
- 7. SECURITY YELLOW HEAVY-DUTY POLYURETHANE TPE JACKET** — Provides excellent protection against cutting, abrasion, oil and chemicals.



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

PART NO.	COND AWG	NO. OF PAIRS	CONDUCTOR STRANDING	AMPACITY <sup>1</sup>	IND. PAIRS DRAIN WIRE	OVERALL DRAIN WIRE	NOMINAL O.D. (IN)	WT. (LBS) PER 1000'
68412	24	12	19/36	5	26 AWG	26 AWG	0.6	215
68409	24	9	19/36	5	26 AWG	26 AWG	0.57	160
68406	24	6	19/36	7	26 AWG	26 AWG	0.47	126
68404	24	4	19/36	7	26 AWG	26 AWG	0.39	86
68403	24	3	19/36	7	26 AWG	26 AWG	0.36	80
68518	20	18	19/32	6	22 AWG	22 AWG	0.85	540
68512	20	12	19/32	6	22 AWG	22 AWG	0.73	264
68509	20	9	19/32	7	22 AWG	22 AWG	0.72	247
68506	20	6	19/32	7	22 AWG	22 AWG	0.57	161
68504	20	4	19/32	9	22 AWG	22 AWG	0.48	118
68503	20	3	19/32	11	22 AWG	22 AWG	0.43	92
68502	20	2	19/32	13	22 AWG	22 AWG	0.41	74
68312	18	12	19/30	6	20 AWG	20 AWG	0.84	405
68309	18	9	19/30	7	20 AWG	20 AWG	0.79	320
68306	18	6	19/30	7	20 AWG	20 AWG	0.65	245
68304	18	4	19/30	9	20 AWG	20 AWG	0.54	163
68303	18	3	19/30	11	20 AWG	20 AWG	0.49	142
68302	18	2	19/30	14	20 AWG	20 AWG	0.44	110
68204	16	4	19/29	12	20 AWG	26 AWG	0.545	196
68203	16	3	19/29	14	20 AWG	20 AWG	0.49	158
68202	16	2	19/29	14	20 AWG	20 AWG	0.465	136
68201	16	1	19/29	18	20 AWG	20 AWG	0.285	65

NOTE: (1) Ampacities are based on 30°C ambient and 90°C conductor temperature. These values are to be used as a guideline and may vary according to the actual cable application.

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

# Trex-Onics® Individually Shielded Multi-Pair Control Cable (Continued)

## APPLICATIONS

- Bar Code Readers
- Computer Inter-Connections
- Computer Interfaces
- Control Circuits
- Data Transmissions
- Digital Remote Controls
- Heat Pressure & Flow Meters
- Encoders or Resolvers
- Instrumentation
- Load Cell Monitors
- Pendants
- Programmable Limit Switches
- Programmable Controllers
- Proximity Switches
- Servo Motors
- Tachometers
- Telecommunications
- Torque-Tool Monitoring Equipment
- Variable Speed Motors
- X-Ray Monitors

*NOTE: (1) Ampacities are based on 30°C ambient and 90°C conductor temperature. These values are to be used as a guideline and may vary according to the actual cable application.*

## ELECTRICAL SPECIFICATIONS

AWG	NOMINAL IMPEDANCE (OHMS / 1,000 FT)	NOMINAL CAPACITANCE pF/FT(COND-COND)	NOMINAL CAPACITANCE pF/FT(COND-SHIELD)
16	37.5	44	79
	37.5	44	79
	37.5	44	79
	37.5	44	79
18	47	35	62
	47	35	62
	47	35	62
	47	35	62
	47	35	62
	47	35	62
20	45	35	33
	45	35	33
	45	35	33
	45	35	33
	45	35	33
	45	35	33
24	69	24	42.5
	69	24	42.5
	69	24	42.5

### Trex-Onics® Individually Shielded Paired Cables

This cable has been specifically designed for these types of applications:

1. Cable Carrier applications
2. Reeling applications
3. Drop Pendant applications
4. Robotic applications

PAIR NO.	COLOR CODE	OVERCOAT COLOR
1	Black – Red	Black
2	Black – White	White
3	Black – Green	Red
4	Black – Blue	Green
5	Black – Brown	Orange
6	Black – Yellow	Blue
7	Black – Orange	Yellow
8	Red – Green	Brown
9	Red – White	Violet
10	Red – Blue	Gray
11	Red – Yellow	Pink
12	Red – Brown	Tan/Beige
13	Red – Orange	Black
14	Green – Blue	White
15	Green – White	Red
16	Green – Brown	Green
17	Green – Orange	Orange
18	Green – Yellow	Blue

**ADD EMI SHIELDED GRIP-SEALS® TO COMPLETE YOUR ORDER!**



See Page 143.