

# Individually Shielded, Multi-Pair Control Cable



• 90°C UL  
• 80°C CSA

• MSHA Approved  
• 600 Volt

• RoHS Compliant  
• -40°C Jacket

## FLUOROPOLYMER INSULATION ON INDIVIDUAL CONDUCTORS

Offers superior resistance to oil, solvents and chemicals. Provides high dielectric capability, mechanical strength and cut resistance.

## UNIQUE COLOR CODE FOR EACH PAIR

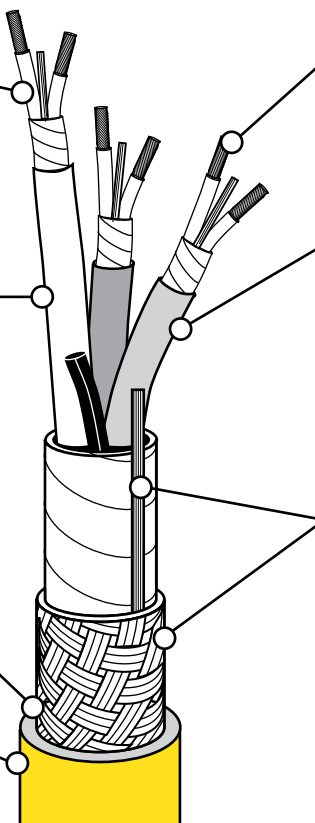
FEP coated pairs are color coded for ease of identification.

## CABLE BONDED DESIGN

Jacket adheres to braid to reduce conductor movement and elongation in flexing or reeling applications.

## SECURITY YELLOW HEAVY-DUTY POLYURETHANE TPE JACKET

Excellent defense against cutting, abrasion, oil and chemicals.



## FINELY STRANDED TINNED COPPER CONDUCTORS

Improves flexibility and extends conductor life.

## INDIVIDUALLY TWISTED SHIELDED PAIRS PROTECTED WITH FEP "OVERCOAT"

Unique "overcoat" design helps maintain shield integrity on the pairs in flexing applications.

## ULTRA-SHIELD™ CONSTRUCTION, A HEAVY-DUTY COMBINATION OF 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.



Tested to over 18,000,000 cycles without electrical failure

## ORDERING INFORMATION (Call for pricing & availability)

PART NO.	COND. SIZE AWG	NO. OF PAIRS	CONDUCTOR STRANDING	AMPACITY (1)	INSULATION THICK. (IN.)	IND. PAIRS DRAIN WIRE	OVERALL DRAIN WIRE	JACKET THICK. (IN.)	NOMINAL O.D. (IN.)	WT. (LBS.) PER 1000'
68412	24	12	19/36	5.0	0.010	26 AWG	26 AWG	0.070	0.60	215
68409	24	9	19/36	5.0	0.010	26 AWG	26 AWG	0.065	0.57	160
68406	24	6	19/36	7.0	0.010	26 AWG	26 AWG	0.060	0.47	126
68404	24	4	19/36	7.0	0.010	26 AWG	26 AWG	0.055	0.39	86
68403	24	3	19/36	7.0	0.010	26 AWG	26 AWG	0.050	0.36	79
68402	24	2	19/36	8.0	0.010	26 AWG	26 AWG	0.045	0.33	62
68518	20	18	19/32	6.0	0.010	22 AWG	22 AWG	0.080	0.85	275
68512	20	12	19/32	6.0	0.010	22 AWG	22 AWG	0.075	0.73	264
68509	20	9	19/32	7.0	0.010	22 AWG	22 AWG	0.070	0.72	247
68506	20	6	19/32	7.0	0.010	22 AWG	22 AWG	0.060	0.57	161
68504	20	4	19/32	9.0	0.010	22 AWG	22 AWG	0.055	0.48	118
68503	20	3	19/32	11.0	0.010	22 AWG	22 AWG	0.050	0.43	92
68502	20	2	19/32	13.0	0.010	22 AWG	22 AWG	0.050	0.41	74
68312	18	12	19/30	12.0	0.010	20 AWG	20 AWG	0.080	0.84	405
68309	18	9	19/30	12.0	0.010	20 AWG	20 AWG	0.080	0.79	320
68306	18	6	19/30	16.0	0.010	20 AWG	20 AWG	0.075	0.65	245
68304	18	4	19/30	16.0	0.010	20 AWG	20 AWG	0.065	0.54	163
68303	18	3	19/30	16.0	0.010	20 AWG	20 AWG	0.060	0.49	142
68302	18	2	19/30	19.0	0.010	20 AWG	20 AWG	0.060	0.44	110

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.

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## APPLICATIONS

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

## SPECIFICATIONS

ELECTRICAL CHARACTERISTICS			
PART NO.	NOMINAL IMPEDANCE (PER 1,000 FT.)	NOMINAL CAPACITANCE (COND-COND)	NOMINAL CAPACITANCE (COND-SHLD)
68412	59	30	53
68409	59	30	53
68406	59	30	53
68404	69	24	42.5
68403	69	24	42.5
68402	69	24	42.5
68512	45	35	33
68509	45	35	33
68506	45	35	33
68504	45	35	33
68503	45	35	33
68502	45	35	33
68312	47	35	62
68309	47	35	62
68306	47	35	62
68304	47	35	62
68303	47	35	62
68302	47	35	62

*These values are to be used as a guideline and may vary according to the actual cable application.*

### Trex-Onics Individually Shielded Paired Cables

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

- 1 Cat Track applications
- 2 Reeling applications
- 3 Drop Pendant applications
- 4 Robotic applications

**ADD AN EMI SHIELDED GRIP-SEAL™ TO COMPLETE YOUR ORDER!**



See Page 100.

### Trex-Onics Individually Shielded Paired Products

The FEP pair overcoat colors for the individually shielded pairs are listed below and shall be made of 10 mils of FEP.

Pair No.	Color Code	FEP 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